

2025 H1 EN

# PRODUCT BROCHURE

Make Tomorrow Easier, Today!

**VIVOTEK**  
A Delta Group Company





**VIVOTEK**  
A Delta Group Company

Image source: Archimedes Mandap



# Making Society's Most Trusted Intelligent Security Systems

## 25 Years of Innovation in Security and Focus on AI

Founded in Taiwan in 2000, VIVOTEK delivers intelligent IP surveillance solutions for a safer society, specializing in advanced imaging, audio technologies, and AI-powered analytics. Since joining the Delta Group in 2017, we've become the security core of Delta's Building Automation Business. With robust R&D capabilities and a global network, we continue to lead innovations in security technology and AI applications.

## Smarter, Safer Solutions

Our AI-powered video analytics, combined with cloud and advanced search technologies, deliver real-time insights that empower security operators to boost safety and efficiency. With seamless integration, we safeguard sensitive information and offer comprehensive solutions to protect people, assets, and data across diverse industries.

## Global Reach and Partnership

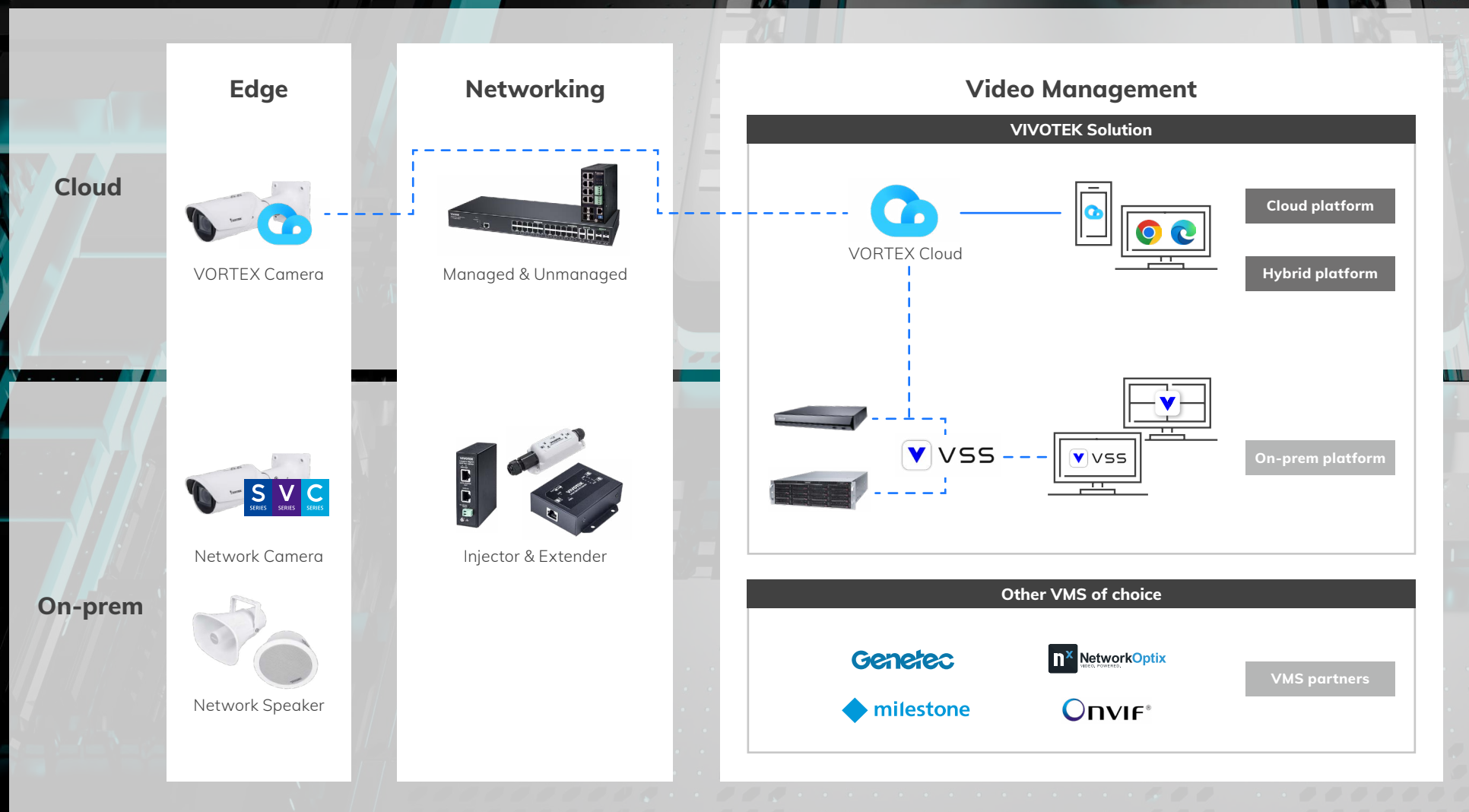
Following our IPO in 2006 and listing on the TWSE in 2011 (TAIEX: 3454), VIVOTEK has expanded globally, establishing offices in the U.S., the Netherlands, India, Mexico, and Japan. Our network of over 200 distributors across more than 120 countries enables us to deliver innovative security solutions worldwide.

## Commitment to Quality and Sustainability: 2030 RE100

As a global leader in security solutions, we are dedicated to delivering reliable and intelligent security for society. Guided by our brand's focus on "Concern for Others' Cares," we prioritize environmental, social, and governance (ESG) issues, setting ambitious goals and taking concrete actions.

We are committed to sustainability, utilizing over 50% renewable energy and targeting RE100 by 2030. We maintain ISO 14001, ISO 9001, TL9000, RoHS, and ISO 27001 certifications to ensure product quality and comprehensive information security.

# VIVOTEK Solution Architecture





# VIVOTEK Solution Highlight

Make Tomorrow Easier with AI and Cloud

## 1. See more of video

- Full range of AI cameras.
- Cloud Transition through VORTEX Connect

## 2. Know more of video

- Edge analytics for situational awareness.
- Edge-centric object analytics.

## 3. Do more with video

- Deep Search – find evidence in seconds.
- Automate more devices for protection.

## 4. Cybersecurity

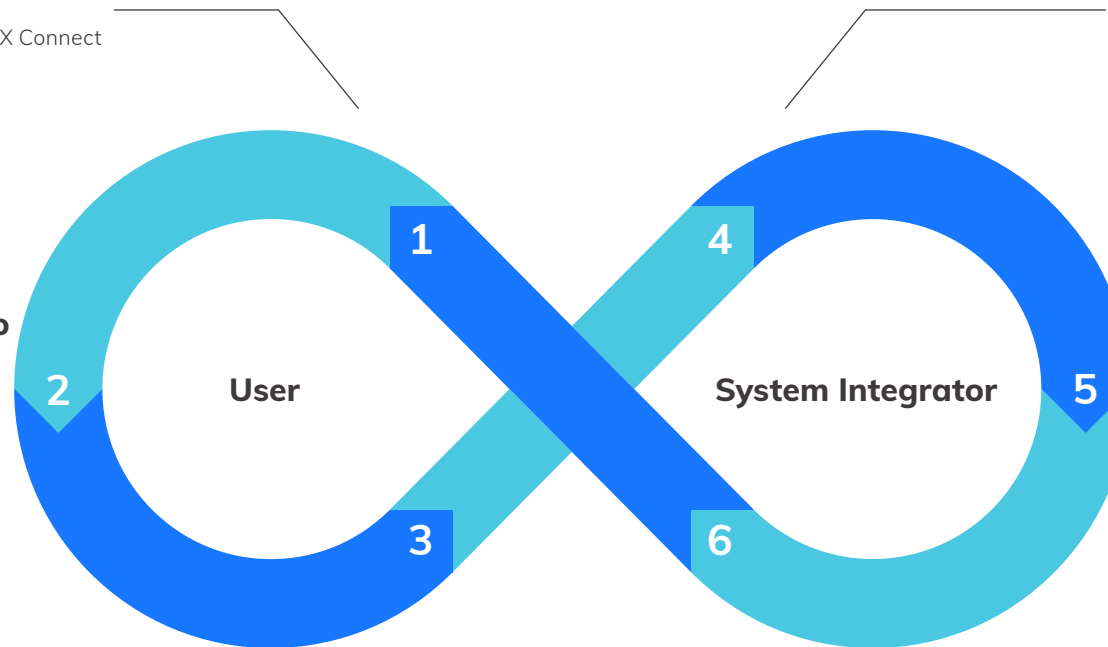
- NDAA & TAA compliant.
- AWS Qualified Software.
- ISO27001
- Cybersecurity features for edge device, in-transit data, and cloud.

## 5. Flexible platform

- Full cloud, hybrid cloud, and on-prem option.
- Integration and application plug-in for major VMS.
- SDK and API for development support.

## 6. Easy installation

- Design and batch deployment tools.
- Easy install camera design.





# 01 See More of Video

Technology solutions focused on smarter and easier ways to see video

## Full range of AI cameras

Edge AI integrates artificial intelligence into cameras for real-time event analysis. Eliminating the need for a dedicated server to handle video analytics, streamlines system setup and reduces overall costs. Experience increased flexibility in analytic applications, regardless of your system's deployment method.

### Form Factor for All Scenarios

VIVOTEK continues advancing edge AI network cameras across various form factors and segments, delivering tailored solutions to meet diverse security needs.



### RealSight Engine – AI Powered Image Clarity

RealSight Engine with AI-powered capability offers unparalleled visibility, preserves true colors, and remains unaffected by environmental factors, even in any lighting condition, effortlessly maintaining crucial human details. This ready-to-use solution ensures you never miss a detail, providing insightful images for every scene without the need for complex setup.

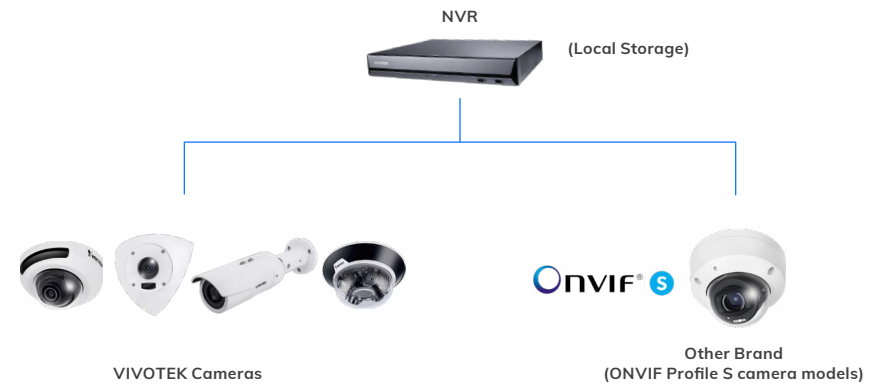


Camera with RealSight Engine in nighttime



Camera with RealSight Engine in low light movement

## VORTEX Connect



### Bridge Any Cameras to Cloud

Seamlessly integrate ONVIF Profile S cameras with VORTEX using V-series Embedded NVR. Elevate your existing cameras with centralized management and remote access.

### Cloud Security Protection

Support for Single Sign-On (SSO) and Multi-Factor Authentication (MFA) simplifies access, eliminates multiple credentials, and enhances the security of sensitive information and networks.

### Unlimited Cloud Archive for Video Footage

Effortlessly archive footage from multiple cameras in a single platform.

# 02 Know More of Video

Technology solutions focused on object-of-interest

## Accurate object analytics with attribute extraction

### Object-of-interest

VIVOTEK AI cameras runs powerful algorithm that accurately detects and classifies people and vehicles while ignoring traditional motion movements.

### Appearance Attribute

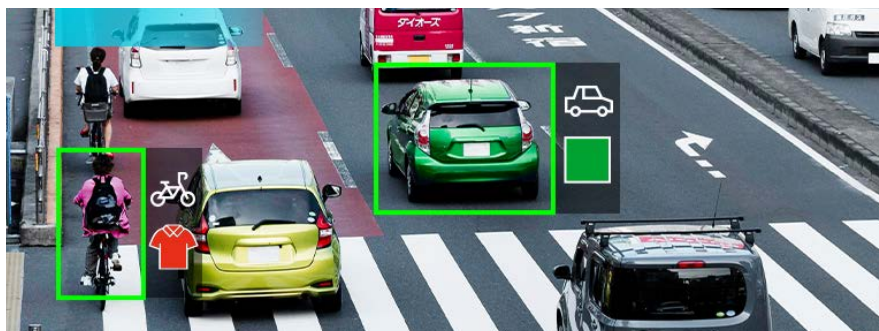
Real-time analytics extract attributes like color and vehicle type, enhancing video search accuracy and offering valuable insights for business intelligence integration.

### Facial Attribute

Facial attribute extraction enables advanced video search with precise facial matches, elevating accuracy and efficiency in identifying individuals within surveillance footage.

### License Plate Number

Effortlessly track and identify plates without the need for third-party integration.



## Improve situational awareness with Smart VCA

Powered by cutting-edge deep learning technology, our advanced algorithm consistently elevates detection accuracy by significantly reducing false alarms. With the unparalleled capabilities of deep learning, surveillance systems can distinguish real threats from non-threatening events, resulting in security and operational efficiency.



Smart Motion Detection



Line Crossing Detection



Loitering Detection



Intrusion Detection



Face Detection



Crowd Detection



Missing Object Detection



Unattended Object Detection



Restricted Zone Detection



Running Detection



Parking Violation Detection



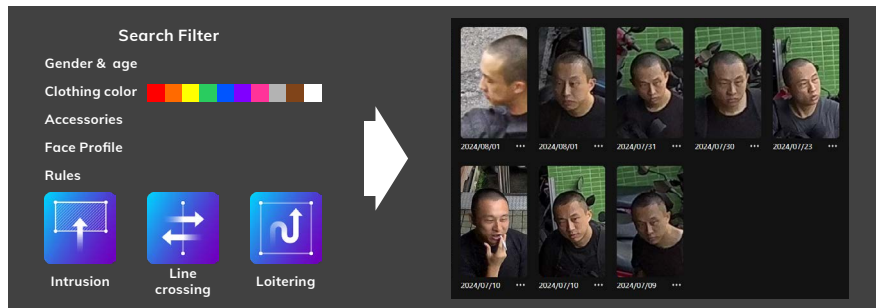
# 03 Do More with Video

Technology solutions focused on smarter and easier ways to see video

## Deep Search

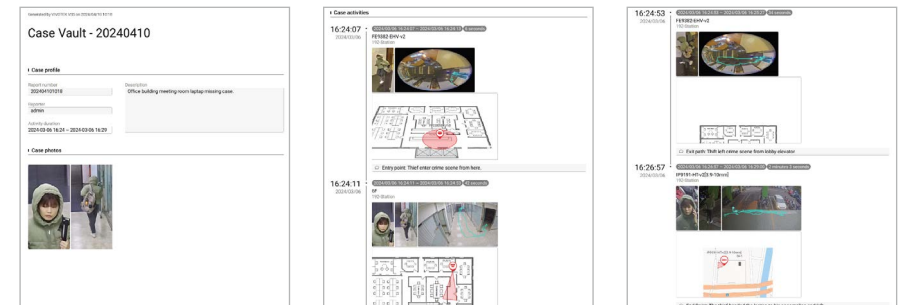
### Find Footage in Seconds

Screening through footage is a mental-fatigue, eye-soring, daunting task. VIVOTEK Deep Search improves your operation efficiency with automated investigation.



### Export Evidence with Ease

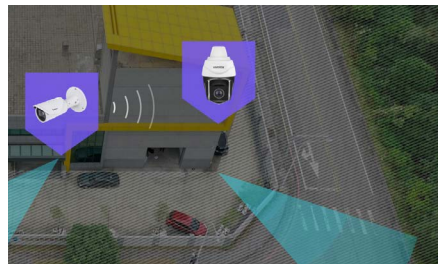
Case Vault organizes the clips and export detailed report straight from your search results. This feature makes case management easier, simplifying the process of collecting and sharing key information with stakeholders.



## Trigger PTZ Tracking

### Inter-camera communication to capture more details

- Spotter camera detects activity at a pre-set location.
- Alerts PTZ cameras to zoom onto pre-set location.
- PTZ cameras capture clearer details.



## Trigger Audio Broadcast

### Automated from an event or broadcast from microphone

- Avoid confrontation or danger of physical contact.
- Warn remotely and immediately on-the-spot in large perimeter protection.



# 04 Cybersecurity

End-to-end practices to keep your data secure

NDAA

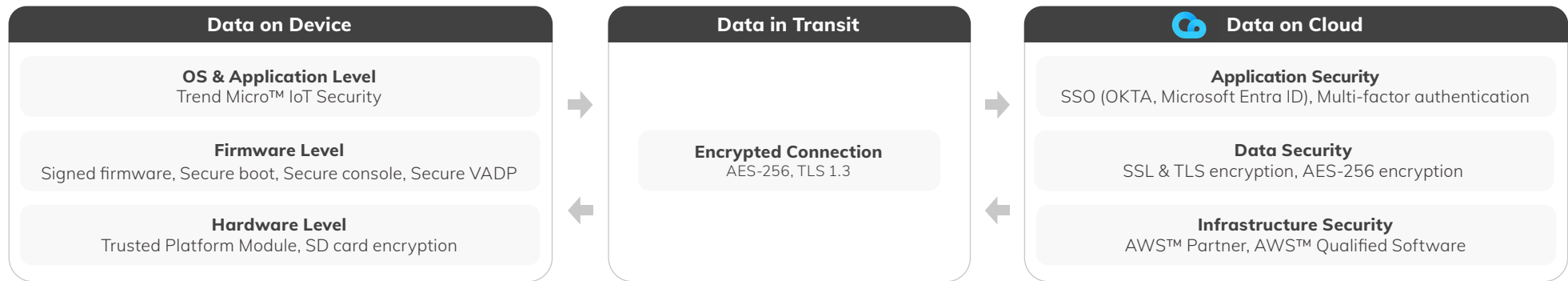
TAA

ISO27001

FIPS 140-2 level 2

Penetration Test

## Our Corporate Practice



### NDAA & TAA Compliant

We take pride in emphasizing that all our product research, development, and manufacturing processes take place in Taiwan. This not only underscores our dedication to quality but also assures our customers that every VIVOTEK product is crafted with precision and reliability.

### ISO27001

By implementing a robust Information Security Management System (ISMS), we safeguard data confidentiality, integrity, and availability. This certification demonstrates our commitment to protecting sensitive information, managing risks, and maintaining the highest level of security and trust.

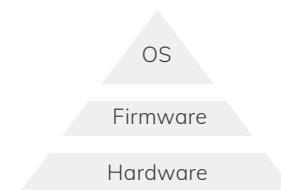
### FIPS 140-2 level 2

Our products comply with FIPS 140-2 Level 2, ensuring strong encryption and security protocols. This certification mandates tamper-evident protections, role-based authentication, and rigorous cryptographic module testing, guaranteeing data integrity and confidentiality.

### AWS™ Partner and AWS™ Qualified Software

Begin AWS™ Partner and AWS™ Qualified Software proves we have successfully completed Foundational Technical Review (also known as FTR). FTR identifies our cloud is built based on AWS Well-Architected best practices specific.

### Product Cybersecurity Features



- Trend Micro™ IoT Security
- Signed firmware, Secure boot, Secure console, Secure VADP
- Trusted Platform Module, SD card encryption



# 05 Flexible Platform

Solution that meets different infrastructure challenges

## Hybrid Cloud Platform – VORTEX

### Direct-to-Cloud



Best match for AI-Cameras with VORTEX Platform



### Bridge-to-Cloud



Support over 30,000 ONVIF Profile S Camera models simply lift to VORTEX

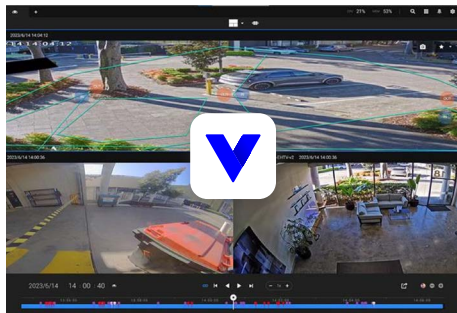
### Direct-to-Cloud

- With cloud solutions, customers avoid complicated hardware costs while enjoying continuous feature upgrades through cloud extensions.
- Allowing customers to access cloud-based management systems via mobile, benefiting from over-the-air (OTA) updates and advanced AI features.

### Bridge-to-Cloud

- For customers have already invested in a number of cameras, they don't want to waste that investment.
- Bridge to cloud model enables customers to bring their existing ONVIF cameras online without needing to replace them, facilitating remote management, troubleshooting, configuration, and technical support.

## On-premise – VAST Security Station



VAST Security Station is a video management software featuring an intuitive and easy-to-use interface, helping customers quickly and efficiently set up projects. Its central management allows rapid expansion from single shop to multi-sites scale, and it seamlessly integrates with VIVOTEK's diverse network devices, including cameras, NVRs, PoE switches and IP audio speakers, meeting various surveillance application.

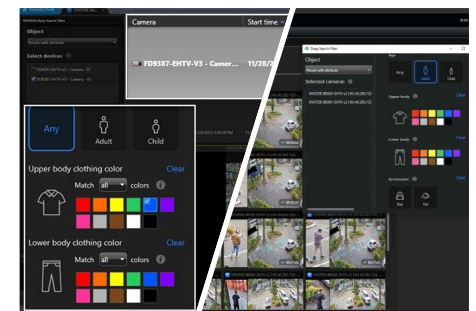
## Leading VMS Integration

### Milestone Xprotect

Easily enhance your Milestone XProtect with VIVOTEK's AI cameras for instant search evidence by attributes.

### Genetec Security Center

Optimize your Genetec Security Center with VIVOTEK's AI cameras for quick evidence searching through Deep Search and export search report.



# 06 Easy Installation

Products and services designed for quick and mass deployment

## Designed for Easy Installation

### Modular Mechanical Design

VIVOTEK's brand new mechanical design has made the installation process easier than ever before. The new modular design greatly reduces installation times and costs, allowing installers to take on more projects.

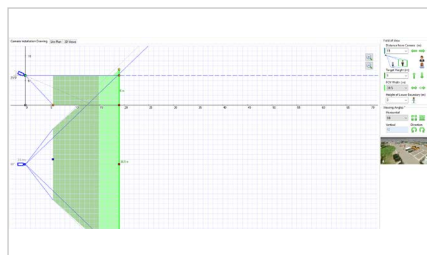


### Wi-Fi Installation

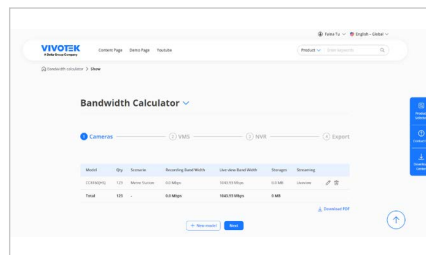


## Design Tools

### IPVS Design Tool



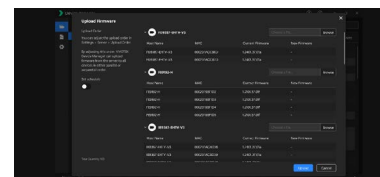
### Bandwidth Design Tool



## Device Manager

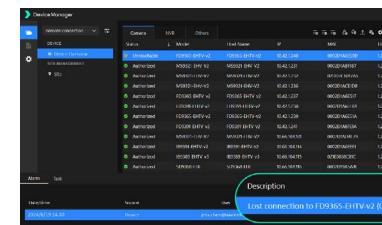
### Batch Deployment

- Assign static IP address
- Batch parameter configuration
- Create templates
- Upload firmware



### Remote Maintenance

- Device status monitoring and alerts
- Gateway to one service portal

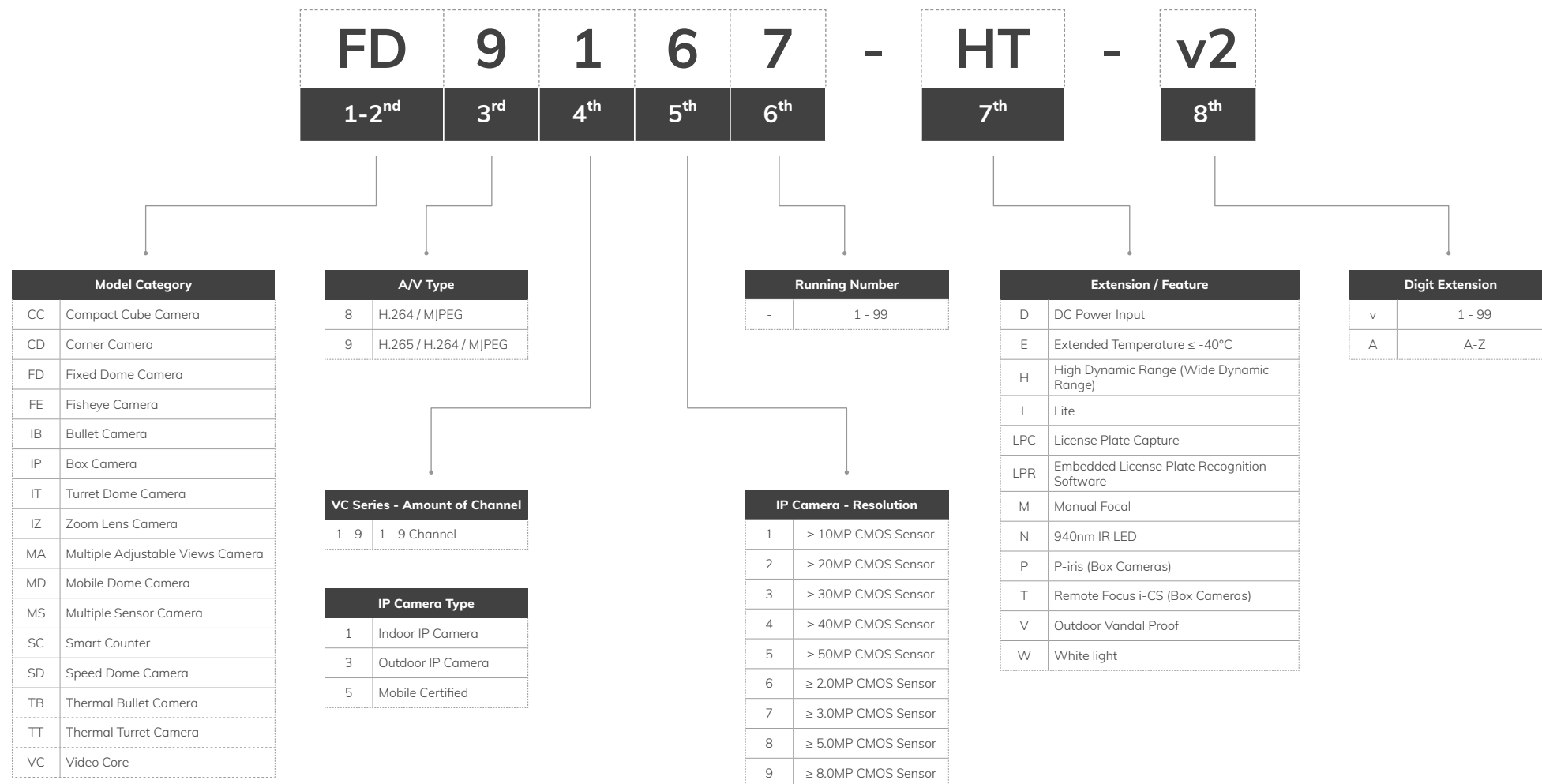




# VIVOTEK Network Camera

| Series                                                                                             | Competitive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Versatile                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Specialized                                                                                                     |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <div><div>C</div><div>V</div><div>S</div><div>SERIES</div><div>SERIES</div><div>SERIES</div></div> | Explore essential video and audio functions paired with basic video analytics. Fulfill key demands with reliable and stable performance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Experience excellent image and powerful AI surveillance solutions with Versatile series camera. Packed with advanced, feature-rich options designed to adapt to diverse applications, it promises consistent performance and versatile functionality.                                                                                                                                                                                                                | Special form factor camera tailored to meet unique needs. Simplify setup to perfectly match niche applications. |
| Bullet / Dome / Turret                                                                             | <div><p>Entry-level Network Camera</p><p>AI Camera</p></div>                                                                                                                                                                                                                                                                                                                                                                                                                                           | <div><p>Modular AI Camera</p><p>AI Camera</p></div>                                                                                                                                                                                                                                            |                                                                                                                 |
| Panoramic                                                                                          | <div><p>Fisheye Panoramic</p><p>Compact Panoramic</p></div>                                                                                                                                                                                                                                                                                                                                                                                                                                            | <div><p>Fisheye Panoramic</p><p>Compact Panoramic</p><p>Multi-directional Panoramic</p><p>Multi-sensor Panoramic</p></div> |                                                                                                                 |
| Pan-Tilt-Zoom                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <div><p>AI PTZ</p></div>                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                 |
| Box                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <div><p>Box Camera</p></div>                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                 |
| Application                                                                                        | <div><p>Facial Recognition</p><p>Counting</p><p>License Plate Recognition</p><p>Thermal</p><p>License Plate Capture</p><p>Modular</p></div> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                 |

# Network Cameras Naming Rule



# Indoor Dome



FD9186



FD9182-H



FD9167-HT-V2



FD9187-HT-V3 (2.7-13.5 mm)

| Type                         | C-series Entry-level Network Camera                                                 |                                                    | V-series Modular AI Camera                                                                                                        |                                                                                                                                                  |
|------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera Features              |                                                                                     |                                                    |                                                                                                                                   |                                                                                                                                                  |
| Image Sensor                 | 1/2.8" Progressive CMOS                                                             | 1/2.7" Progressive CMOS                            | 1/2.8" Progressive CMOS                                                                                                           | 1/2.8" Progressive CMOS                                                                                                                          |
| Max. Resolution              | 2880x1616 (5MP)                                                                     | 2560x1920 (5MP)                                    | 1920x1080 (2MP)                                                                                                                   | 2560x1920 (5MP)                                                                                                                                  |
| Focal Length                 | f = 2.8 mm                                                                          | f = 2.8 mm                                         | f = 2.7 ~ 13.5 mm                                                                                                                 | f = 2.7 ~ 13.5 mm                                                                                                                                |
| Field of View                | 111.0° (H)<br>59.0° (V)<br>133.0° (D)                                               | 103° (H)<br>76° (V)<br>134° (D)                    | 110° ~ 33° (H)<br>55° ~ 18° (V)<br>126° ~ 37° (D)                                                                                 | 100.1° ~ 29.9° (H)<br>71.8° ~ 22.4° (V)<br>135.2° ~ 37.4° (D)                                                                                    |
| WDR                          | WDR Pro                                                                             | WDR Pro                                            | WDR Pro                                                                                                                           | WDR Pro                                                                                                                                          |
| IR Distance                  | 30m                                                                                 | NA                                                 | 50m                                                                                                                               | 50m                                                                                                                                              |
| Minimum Illumination         | 0.055 lux @ F1.6 (Color)<br>0.005 lux @ F1.6 (B/W)<br>0 lux with IR illumination on | 0.03 lux @ F2.0 (Color)<br><0.005 lux @ F2.0 (B/W) | 0.035 lux @ F1.4 (Color)(30IRE)<br>0.080 lux @ F1.4 (Color)(50IRE)<br><0.005 lux @ F1.4 (B/W)<br>0 lux with IR illumination on    | 0.04 lux @ F1.8 (Color)<br><0.005 lux @ F1.8 (B/W)<br>0 lux with IR illumination on                                                              |
| Video/ Audio/ Network        |                                                                                     |                                                    |                                                                                                                                   |                                                                                                                                                  |
| Video Compression Codec      | H.265, H.264, MJPEG                                                                 | H.265, H.264, MJPEG                                | H.265, H.264, MJPEG                                                                                                               | H.265, H.264, MJPEG                                                                                                                              |
| Maximum Frame Rate           | 30 fps @ 2880x1616                                                                  | 20 fps @ 2560x1920                                 | 30 fps @ 1920x1080 (WDR Pro on)<br>60 fps @ 1920x1080 (WDR Pro off)                                                               | 30 fps @ 2560x1920 (WDR Pro on)<br>30 fps @ 2560x1440 (WDR Pro on)<br>60 fps @ 1920x1080 (WDR Pro off)                                           |
| Built-in Mic                 | V                                                                                   | V                                                  | -                                                                                                                                 | V                                                                                                                                                |
| ONVIF                        | Profile G, S, T                                                                     | Profile G, S, T                                    | Profile G, S, T                                                                                                                   | Profile G, S, T                                                                                                                                  |
| AI Analytics                 |                                                                                     |                                                    |                                                                                                                                   |                                                                                                                                                  |
| Smart VCA                    | V                                                                                   | -                                                  | V                                                                                                                                 | V                                                                                                                                                |
| Object Detection (People)    | V                                                                                   | -                                                  | V                                                                                                                                 | V                                                                                                                                                |
| Object Detection (Vehicle)   | V                                                                                   | -                                                  | V                                                                                                                                 | V                                                                                                                                                |
| Attribute Extraction         | -                                                                                   | -                                                  | -                                                                                                                                 | V                                                                                                                                                |
| Object Detection (Re-Search) | -                                                                                   | -                                                  | -                                                                                                                                 | V                                                                                                                                                |
| General                      |                                                                                     |                                                    |                                                                                                                                   |                                                                                                                                                  |
| Power Consumption            | 5.5W                                                                                | PoE: Max. 3.6W                                     | Max. 9/6 W (IR on/off)<br>DC 12V: Max. 9/6 W (IR on/off)<br>AC 24V*: Max. 9/6 W (IR on/off)<br>*Requires extension I/O module kit | 12.95W/ 10.05W (IR on/off)<br>DC 12V: Max. 14.4W/ 11.5W (IR on/off)<br>AC 24V*: Max. 12W/ 9.1W (IR on/off)<br>*Requires extension I/O module kit |
| Operating Temperature        | -10 °C ~ 55°C                                                                       | -10 °C ~ 50°C                                      | -10 °C ~ 50°C                                                                                                                     | -10 °C ~ 50°C                                                                                                                                    |
| Certifications               |                                                                                     |                                                    |                                                                                                                                   |                                                                                                                                                  |
| IP66                         | -                                                                                   | -                                                  | -                                                                                                                                 | -                                                                                                                                                |
| IP67                         | -                                                                                   | -                                                  | -                                                                                                                                 | -                                                                                                                                                |
| IK10                         | -                                                                                   | V                                                  | -                                                                                                                                 | -                                                                                                                                                |
| IK10+                        | -                                                                                   | -                                                  | -                                                                                                                                 | -                                                                                                                                                |
| NEMA 4X                      | -                                                                                   | -                                                  | -                                                                                                                                 | -                                                                                                                                                |



# Indoor Dome



FD9187-HT-V3 (7-22 mm)



FD9189-H-V3



FD9199-H

| Type                         | V-series Modular AI Camera                                                                                                                       | V-series AI Camera                                                                  |                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Camera Features              |                                                                                                                                                  |                                                                                     |                                                                                      |
| Image Sensor                 | 1/2.8" Progressive CMOS                                                                                                                          | 1/2.8" Progressive CMOS                                                             | 1/1.8" Progressive CMOS                                                              |
| Max. Resolution              | 2560x1920 (5MP)                                                                                                                                  | 2560x1920 (5MP)                                                                     | 3840x2160 (8MP)                                                                      |
| Focal Length                 | f= 7 ~ 22 mm                                                                                                                                     | f = 2.8 mm                                                                          | f = 4.2 mm                                                                           |
| Field of View                | 39.3° ~ 15.5° (H)<br>28.8° ~ 11.6° (V)<br>50.8° ~ 19.4° (D)                                                                                      | 103.4° (H)<br>75.3° (V)<br>135.2° (D)                                               | 110.7° (H)<br>59.1° (V)<br>131.0° (D)                                                |
| WDR                          | WDR Pro                                                                                                                                          | WDR Pro                                                                             | WDR Pro                                                                              |
| IR Distance                  | 50m                                                                                                                                              | 30m                                                                                 | 30m                                                                                  |
| Minimum Illumination         | 0.035 lux @ F1.7 (Color)<br><0.005 lux @ F1.7 (B/W)<br>0 lux with IR illumination on                                                             | 0.055 lux @ F2.0 (Color)<br>0.005 lux @ F2.0 (B/W)<br>0 lux with IR illumination on | 0.015 lux @ F1.6 (Color)<br><0.005 lux @ F1.6 (B/W)<br>0 lux with IR illumination on |
| Video/ Audio/ Network        |                                                                                                                                                  |                                                                                     |                                                                                      |
| Video Compression Codec      | H.265, H.264, MJPEG                                                                                                                              | H.265, H.264, MJPEG                                                                 | H.265, H.264, MJPEG                                                                  |
| Maximum Frame Rate           | 30 fps @ 2560x1920 (WDR Pro on)<br>30 fps @ 2560x1440 (WDR Pro on)<br>60 fps @ 1920x1080 (WDR Pro off)                                           | 30 fps @ 2560x1920 (5MP)                                                            | 30 fps @ 3840x2160 (8MP)                                                             |
| Built-in Mic                 | V                                                                                                                                                | V                                                                                   | V                                                                                    |
| ONVIF                        | Profile G, S, T                                                                                                                                  | Profile G, S, T                                                                     | Profile G, S, T                                                                      |
| AI Analytics                 |                                                                                                                                                  |                                                                                     |                                                                                      |
| Smart VCA                    | V                                                                                                                                                | V                                                                                   | V                                                                                    |
| Object Detection (People)    | V                                                                                                                                                | V                                                                                   | V                                                                                    |
| Object Detection (Vehicle)   | V                                                                                                                                                | V                                                                                   | V                                                                                    |
| Attribute Extraction         | V                                                                                                                                                | V                                                                                   | V                                                                                    |
| Object Detection (Re-Search) | V                                                                                                                                                | V                                                                                   | V                                                                                    |
| General                      |                                                                                                                                                  |                                                                                     |                                                                                      |
| Power Consumption            | 12.95W/ 10.05W (IR on/off)<br>DC 12V: Max. 14.4W/ 11.5W (IR on/off)<br>AC 24V*: Max. 12W/ 9.1W (IR on/off)<br>*Requires extension I/O module kit | Max. 12.4W/ 9.6W (IR on/off)                                                        | Max. 12.4W/ 9.6W (IR on/off)                                                         |
| Operating Temperature        | -10 °C ~ 50°C                                                                                                                                    | 0 °C ~ 45°C                                                                         | 0 °C ~ 45°C                                                                          |
| Certifications               |                                                                                                                                                  |                                                                                     |                                                                                      |
| IP66                         | -                                                                                                                                                | -                                                                                   | -                                                                                    |
| IP67                         | -                                                                                                                                                | -                                                                                   | -                                                                                    |
| IK10                         | -                                                                                                                                                | -                                                                                   | -                                                                                    |
| IK10+                        | -                                                                                                                                                | -                                                                                   | -                                                                                    |
| NEMA 4X                      | -                                                                                                                                                | -                                                                                   | -                                                                                    |

# Outdoor Dome



FD9366-HV(2.8mm)



FD9366-HV(3.6mm)



FD9368-HTV



FD9369



FD9380-HTV-V2

| Type                         | C-series Entry-level Network Camera                                                 |                                                                                     |                                                                                      |                                                                                     |                                                                                    |
|------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Camera Features              |                                                                                     |                                                                                     |                                                                                      |                                                                                     |                                                                                    |
| Image Sensor                 | 1/2.9" Progressive CMOS                                                             | 1/2.9" Progressive CMOS                                                             | 1/2.9" Progressive CMOS                                                              | 1/3.1" Progressive CMOS                                                             | 1/2.8" Progressive CMOS                                                            |
| Max. Resolution              | 1920x1080 (2MP)                                                                     | 1920x1080 (2MP)                                                                     | 1920x1080 (2MP)                                                                      | 1920x1080 (2MP)                                                                     | 2880x1616 (5MP)                                                                    |
| Focal Length                 | f = 2.8 mm                                                                          | f = 3.6 mm                                                                          | f = 2.8 ~ 12mm                                                                       | f= 2.8 mm                                                                           | f = 2.7 ~ 13.5mm                                                                   |
| Field of View                | 108° (H)<br>60° (V)<br>124° (D)                                                     | 89° (H)<br>47° (V)<br>105° (D)                                                      | 93° ~ 32° (H)<br>50° ~ 18° (V)<br>110° ~ 37° (D)                                     | 116° (H)<br>65° (V)<br>140° (D)                                                     | 111.0° ~ 32.2° (H)<br>57.0° ~ 18.0° (V)<br>136.0° ~ 37.0°(D)                       |
| WDR                          | WDR Pro                                                                             | WDR Pro                                                                             | WDR Pro                                                                              | WDR Enhanced                                                                        | WDR Pro                                                                            |
| IR Distance                  | 20m                                                                                 | 20m                                                                                 | 30m                                                                                  | 30m                                                                                 | 30m                                                                                |
| Minimum Illumination         | 0.13 lux @ F1.8 (Color)<br>< 0.01 lux @ F1.8 (B/W)<br>0 lux with IR illumination on | 0.15 lux @ F2.0 (Color)<br>< 0.01 lux @ F2.0 (B/W)<br>0 lux with IR illumination on | 0.055 lux @ F1.4 (Color)<br><0.005 lux @ F1.4 (B/W)<br>0 lux with IR illumination on | 0.08 lux @ F2.0 (Color)<br><0.005 lux @ F2.0 (B/W)<br>0 lux with IR illumination on | 0.04 lux @ F1.6 (Color)<br>0.005 lux @ F1.6 (B/W)<br>0 lux with IR illumination on |
| Video/ Audio/ Network        |                                                                                     |                                                                                     |                                                                                      |                                                                                     |                                                                                    |
| Video Compression Codec      | H.265, H264, MJPEG                                                                  | H.265, H264, MJPEG                                                                  | H.265, H.264, MJPEG                                                                  | H.265, H.264, MJPEG                                                                 | H.265, H.264, MJPEG                                                                |
| Maximum Frame Rate           | 30 fps @ 1920x1080                                                                  | 30 fps @ 1920x1080                                                                  | 30 fps @ 1920x1080                                                                   | 30 fps @ 1920x1080                                                                  | 30 fps @ 2880x1616                                                                 |
| Built-in Mic                 | V                                                                                   | V                                                                                   | V                                                                                    | V                                                                                   | V                                                                                  |
| ONVIF                        | Profile G, S, T                                                                     | Profile G, S, T                                                                     | Profile G, S, T                                                                      | Profile G, S, T                                                                     | Profile G, S, T                                                                    |
| AI Analytics                 |                                                                                     |                                                                                     |                                                                                      |                                                                                     |                                                                                    |
| Smart VCA                    | -                                                                                   | -                                                                                   | -                                                                                    | -                                                                                   | V                                                                                  |
| Object Detection (People)    | -                                                                                   | -                                                                                   | -                                                                                    | -                                                                                   | V                                                                                  |
| Object Detection (Vehicle)   | -                                                                                   | -                                                                                   | -                                                                                    | -                                                                                   | V                                                                                  |
| Attribute Extraction         | -                                                                                   | -                                                                                   | -                                                                                    | -                                                                                   | -                                                                                  |
| Object Detection (Re-Search) | -                                                                                   | -                                                                                   | -                                                                                    | -                                                                                   | -                                                                                  |
| General                      |                                                                                     |                                                                                     |                                                                                      |                                                                                     |                                                                                    |
| Power Consumption            | Max. 5.5 W/3.3 W (IR on/off)                                                        | Max. 5.5 W/3.3 W (IR on/off)                                                        | Max. 12.95 W/9 W (IR on/off)                                                         | Max. 6W/4W (IR on/off)<br>DC 12V: Max. 5.1W/3.4W (IR on/off)                        | 8W                                                                                 |
| Operating Temperature        | -25 °C ~ 60°C                                                                       | -25 °C ~ 60°C                                                                       | -30 °C ~ 60°C                                                                        | -30 °C ~ 55°C                                                                       | -30 °C ~ 60°C                                                                      |
| Certifications               |                                                                                     |                                                                                     |                                                                                      |                                                                                     |                                                                                    |
| IP66                         | V                                                                                   | V                                                                                   | V                                                                                    | V                                                                                   | V                                                                                  |
| IP67                         | -                                                                                   | -                                                                                   | -                                                                                    | -                                                                                   | -                                                                                  |
| IK10                         | V                                                                                   | V                                                                                   | V                                                                                    | V                                                                                   | V                                                                                  |
| IK10+                        | -                                                                                   | -                                                                                   | -                                                                                    | -                                                                                   | -                                                                                  |
| NEMA 4X                      | -                                                                                   | -                                                                                   | -                                                                                    | -                                                                                   | -                                                                                  |

# Outdoor Dome



FD9380-HV-V2



FD9383-HTV



FD9383-HV (2.8 mm)



FD9383-HV (3.6 mm)

| Type                         |                                                                                     |                                                                                    | C-series AI Camera                                                                  |                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Camera Features              |                                                                                     |                                                                                    |                                                                                     |                                                                                     |
| Image Sensor                 | 1/2.8" Progressive CMOS                                                             | 1/2.8" Progressive CMOS                                                            | 1/2.8" Progressive CMOS                                                             | 1/2.8" Progressive CMOS                                                             |
| Max. Resolution              | 2880x1616 (5MP)                                                                     | 2560x1920 (5MP)                                                                    | 2560x1920 (5MP)                                                                     | 2560x1920 (5MP)                                                                     |
| Focal Length                 | f = 2.8 mm                                                                          | f = 2.8 ~ 12mm                                                                     | f = 2.8 mm                                                                          | f = 3.6 mm                                                                          |
| Field of View                | 111.0° (H)<br>59.0° (V)<br>133.0° (D)                                               | 95.4° ~ 28.7° (H)<br>68.8° ~ 21.5° (V)<br>129.6° ~ 35.9°(D)                        | 103.4° (H)<br>75.3° (V)<br>135.2° (D)                                               | 79.6° (H)<br>57.8° (V)<br>105.8° (D)                                                |
| WDR                          | WDR Pro                                                                             | WDR Pro                                                                            | WDR Pro                                                                             | WDR Pro                                                                             |
| IR Distance                  | 30m                                                                                 | 30m                                                                                | 30m                                                                                 | 30m                                                                                 |
| Minimum Illumination         | 0.055 lux @ F1.6 (Color)<br>0.005 lux @ F1.6 (B/W)<br>0 lux with IR illumination on | 0.04 lux @ F1.6 (Color)<br>0.005 lux @ F1.6 (B/W)<br>0 lux with IR illumination on | 0.055 lux @ F2.0 (Color)<br>0.005 lux @ F2.0 (B/W)<br>0 lux with IR illumination on | 0.055 lux @ F2.0 (Color)<br>0.005 lux @ F2.0 (B/W)<br>0 lux with IR illumination on |
| Video/ Audio/ Network        |                                                                                     |                                                                                    |                                                                                     |                                                                                     |
| Video Compression Codec      | H.265, H.264, MJPEG                                                                 | H.265, H.264, MJPEG                                                                | H.265, H.264, MJPEG                                                                 | H.265, H.264, MJPEG                                                                 |
| Maximum Frame Rate           | 30 fps @ 2880x1616                                                                  | 30 fps @ 2560x1920                                                                 | 30 fps @ 2560x1920                                                                  | 30 fps @ 2560x1920                                                                  |
| Built-in Mic                 | V                                                                                   | V                                                                                  | -                                                                                   | -                                                                                   |
| ONVIF                        | Profile G, S, T                                                                     | Profile G, S, T                                                                    | Profile G, S, T                                                                     | Profile G, S, T                                                                     |
| AI Analytics                 |                                                                                     |                                                                                    |                                                                                     |                                                                                     |
| Smart VCA                    | V                                                                                   | V                                                                                  | V                                                                                   | V                                                                                   |
| Object Detection (People)    | V                                                                                   | V                                                                                  | V                                                                                   | V                                                                                   |
| Object Detection (Vehicle)   | V                                                                                   | V                                                                                  | V                                                                                   | V                                                                                   |
| Attribute Extraction         | -                                                                                   | V                                                                                  | V                                                                                   | V                                                                                   |
| Object Detection (Re-Search) | -                                                                                   | V                                                                                  | V                                                                                   | V                                                                                   |
| General                      |                                                                                     |                                                                                    |                                                                                     |                                                                                     |
| Power Consumption            | 6.5W                                                                                | Max. 9.7 W/ 7.2 W (IR on/off)                                                      | Max. 8.5 W/ 6.0 W (IR on/off)                                                       | Max. 8.5 W/ 6.0 W (IR on/off)                                                       |
| Operating Temperature        | -30 °C ~ 60°C                                                                       | -30 °C ~ 55°C                                                                      | -30 °C ~ 55°C                                                                       | -30 °C ~ 55°C                                                                       |
| Certifications               |                                                                                     |                                                                                    |                                                                                     |                                                                                     |
| IP66                         | V                                                                                   | V                                                                                  | V                                                                                   | V                                                                                   |
| IP67                         | -                                                                                   | -                                                                                  | -                                                                                   | -                                                                                   |
| IK10                         | V                                                                                   | V                                                                                  | V                                                                                   | V                                                                                   |
| IK10+                        | -                                                                                   | -                                                                                  | -                                                                                   | -                                                                                   |
| NEMA 4X                      | -                                                                                   | -                                                                                  | -                                                                                   | -                                                                                   |



# Outdoor Dome



Model Name

FD9365-EHTV-V2

FD9367-EHTV-V2

FD9387-EHTV-V3 (2.7-13.5 mm)

FD9387-EHTV-V3 (7-22 mm)

FD9391-EHTV-V2

| Type                         | V-series Modular AI Camera                                                                                                     |                                                                                                                                        |                                                                                                                                                       |                                                                                                                                                       |                                                                                                         |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Camera Features              |                                                                                                                                |                                                                                                                                        |                                                                                                                                                       |                                                                                                                                                       |                                                                                                         |
| Image Sensor                 | 1/2" Progressive CMOS                                                                                                          | 1/2.8" Progressive CMOS                                                                                                                | 1/2.8" Progressive CMOS                                                                                                                               | 1/2.8" Progressive CMOS                                                                                                                               | 1/1.8" Progressive CMOS                                                                                 |
| Max. Resolution              | 1920x1080 (2MP)                                                                                                                | 1920x1080 (2MP)                                                                                                                        | 2560x1920 (5MP)                                                                                                                                       | 2560x1920 (5MP)                                                                                                                                       | 3840x2160 (8MP)                                                                                         |
| Focal Length                 | f = 4 ~ 9 mm (f = 2.8 ~ 11.4 mm, equivalent focal length @ 1/2.8")                                                             | f = 2.7 ~ 13.5 mm                                                                                                                      | f = 2.7 ~ 13.5 mm                                                                                                                                     | f= 7 ~ 22 mm                                                                                                                                          | f = 4.4 ~ 10.2 mm (f = 2.8~10.3mm, equivalent focal length @ 1/2.8")                                    |
| Field of View                | 120° ~ 46° (H)<br>60° ~ 26° (V)<br>148° ~ 53° (D)                                                                              | 110° ~ 33° (H)<br>55° ~ 18° (V)<br>126° ~ 37° (D)                                                                                      | 100.1° ~ 29.9° (H)<br>71.8° ~ 22.4° (V)<br>135.2° ~ 37.4° (D)                                                                                         | 39.3° ~ 15.5° (H)<br>28.8° ~ 11.6° (V)<br>50.8° ~ 19.4° (D)                                                                                           | 110° ~ 43° (H)<br>57° ~ 24° (V)<br>133° ~ 49° (D)                                                       |
| WDR                          | WDR Pro II                                                                                                                     | WDR Pro                                                                                                                                | WDR Pro                                                                                                                                               | WDR Pro                                                                                                                                               | WDR Pro                                                                                                 |
| IR Distance                  | 50m                                                                                                                            | 50m                                                                                                                                    | 50m                                                                                                                                                   | 50m                                                                                                                                                   | 50m                                                                                                     |
| Minimum Illumination         | 0.040 lux @ F1.3 (Color), 50IRE<br>0.015 lux @ F1.3 (Color), 30IRE<br><0.005 lux @ F1.3 (B/W)<br>0 lux with IR illumination on | 0.035 lux @ F1.4 (Color)(30IRE)<br>0.080 lux @ F1.4 (Color)(50IRE)<br><0.005 lux @ F1.4 (B/W)<br>0 lux with IR illumination on         | 0.04 lux @ F1.8 (Color)<br><0.005 lux @ F1.8 (B/W)<br>0 lux with IR illumination on                                                                   | 0.035 lux @ F1.7 (Color)<br><0.005 lux @ F1.7 (B/W)<br>0 lux with IR illumination on                                                                  | 0.01 lux @ F1.38 (Color)<br><0.005 lux @ F1.38 (B/W)<br>0 lux with IR illumination on                   |
| Video/ Audio/ Network        |                                                                                                                                |                                                                                                                                        |                                                                                                                                                       |                                                                                                                                                       |                                                                                                         |
| Video Compression Codec      | H.265, H.264, MJPEG                                                                                                            | H.265, H.264, MJPEG                                                                                                                    | H.265, H.264, MJPEG                                                                                                                                   | H.265, H.264, MJPEG                                                                                                                                   | H.265, H.264, MJPEG                                                                                     |
| Maximum Frame Rate           | 60 fps @ 1920x1080                                                                                                             | 30 fps @ 1920x1080 (WDR Pro on)<br>60 fps @ 1920x1080 (WDR Pro off)                                                                    | 30 fps @ 2560x1920 (WDR Pro on)<br>30 fps @ 2560x1440 (WDR Pro on)<br>60 fps @ 1920x1080 (WDR Pro off)                                                | 30 fps @ 2560x1920 (WDR Pro on)<br>30 fps @ 2560x1440 (WDR Pro on)<br>60 fps @ 1920x1080 (WDR Pro off)                                                | 30 fps @ 3840x2160                                                                                      |
| Built-in Mic                 | V                                                                                                                              | V                                                                                                                                      | V                                                                                                                                                     | V                                                                                                                                                     | V                                                                                                       |
| ONVIF                        | Profile G, S, T                                                                                                                | Profile G, S, T                                                                                                                        | Profile G, S, T                                                                                                                                       | Profile G, S, T                                                                                                                                       | Profile G, S, T                                                                                         |
| AI Analytics                 |                                                                                                                                |                                                                                                                                        |                                                                                                                                                       |                                                                                                                                                       |                                                                                                         |
| Smart VCA                    | V                                                                                                                              | V                                                                                                                                      | V                                                                                                                                                     | V                                                                                                                                                     | V                                                                                                       |
| Object Detection (People)    | V                                                                                                                              | V                                                                                                                                      | V                                                                                                                                                     | V                                                                                                                                                     | V                                                                                                       |
| Object Detection (Vehicle)   | V                                                                                                                              | V                                                                                                                                      | V                                                                                                                                                     | V                                                                                                                                                     | V                                                                                                       |
| Attribute Extraction         | V                                                                                                                              | -                                                                                                                                      | V                                                                                                                                                     | V                                                                                                                                                     | V                                                                                                       |
| Object Detection (Re-Search) | V                                                                                                                              | -                                                                                                                                      | V                                                                                                                                                     | V                                                                                                                                                     | V                                                                                                       |
| General                      |                                                                                                                                |                                                                                                                                        |                                                                                                                                                       |                                                                                                                                                       |                                                                                                         |
| Power Consumption            | PoE: 13.11/9.67 W (IR on/off)<br>DC 12V: 14.00/10.56 W (IR on/off)<br>AC 24V: 10.79/7.35 W (IR on/off)                         | PoE: Max. 9/6 W (IR on/off)<br>DC 12V: Max. 9/6 W (IR on/off)<br>AC 24V*: Max. 9/6 W (IR on/off)<br>*Requires extension I/O module kit | PoE: 12.95W/ 10.05W (IR on/off)<br>DC 12V: Max. 14.4W/ 11.5W (IR on/off)<br>AC 24V*: Max. 12W/ 9.1W (IR on/off)<br>*Requires extension I/O module kit | PoE: 12.95W/ 10.05W (IR on/off)<br>DC 12V: Max. 14.4W/ 11.5W (IR on/off)<br>AC 24V*: Max. 12W/ 9.1W (IR on/off)<br>*Requires extension I/O module kit | PoE: 14.25/10.81 W (IR on/off)<br>DC 12V: 14.40/10.96 W (IR on/off)<br>AC 24V: 11.64/8.20 W (IR on/off) |
| Operating Temperature        | -50 °C ~ 60°C                                                                                                                  | -40 °C ~ 60°C                                                                                                                          | -40 °C ~ 60°C                                                                                                                                         | -40 °C ~ 60°C                                                                                                                                         | -50 °C ~ 60°C                                                                                           |
| Certifications               |                                                                                                                                |                                                                                                                                        |                                                                                                                                                       |                                                                                                                                                       |                                                                                                         |
| IP66                         | V                                                                                                                              | V                                                                                                                                      | V                                                                                                                                                     | V                                                                                                                                                     | V                                                                                                       |
| IP67                         | V                                                                                                                              | V                                                                                                                                      | V                                                                                                                                                     | V                                                                                                                                                     | V                                                                                                       |
| IK10                         | -                                                                                                                              | V                                                                                                                                      | -                                                                                                                                                     | -                                                                                                                                                     | -                                                                                                       |
| IK10+                        | V                                                                                                                              | -                                                                                                                                      | V                                                                                                                                                     | V                                                                                                                                                     | V                                                                                                       |
| NEMA 4X                      | V                                                                                                                              | V                                                                                                                                      | V                                                                                                                                                     | V                                                                                                                                                     | V                                                                                                       |

# Outdoor Dome



Model Name

FD9389-EHTV-V3

FD9389-EHV-V3

FD9399-EHTV

FD9399-EHV

| Type                         | V-series AI Camera                                                                 |                                                                                     |                                                                                     |                                                                                      |
|------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Camera Features              |                                                                                    |                                                                                     |                                                                                     |                                                                                      |
| Image Sensor                 | 1/2.8" Progressive CMOS                                                            | 1/2.8" Progressive CMOS                                                             | 1/1.8" Progressive CMOS                                                             | 1/1.8" Progressive CMOS                                                              |
| Max. Resolution              | 2560x1920 (5MP)                                                                    | 2560x1920 (5MP)                                                                     | 3840x2160 (8MP)                                                                     | 3840x2160 (8MP)                                                                      |
| Focal Length                 | f = 2.8~12 mm                                                                      | f = 2.8 mm                                                                          | f = 4.3~9.8mm                                                                       | f = 4.2 mm                                                                           |
| Field of View                | 95.4° ~ 28.7° (H)<br>68.8° ~ 21.5° (V)<br>129.6° ~ 35.9°(D)                        | 103.4° (H)<br>75.3° (V)<br>135.2° (D)                                               | 110.4° ~ 45.1° (H)<br>57.9° ~ 25.4° (V)<br>133.9° ~ 51.8°(D)                        | 110.74° (H)<br>59.1° (V)<br>131.0° (D)                                               |
| WDR                          | WDR Pro                                                                            | WDR Pro                                                                             | WDR Pro                                                                             | WDR Pro                                                                              |
| IR Distance                  | 40m                                                                                | 40m                                                                                 | 40m                                                                                 | 40m                                                                                  |
| Minimum Illumination         | 0.04 lux @ F1.6 (Color)<br>0.005 lux @ F1.6 (B/W)<br>0 lux with IR illumination on | 0.055 lux @ F2.0 (Color)<br>0.005 lux @ F2.0 (B/W)<br>0 lux with IR illumination on | 0.02 lux @ F1.6 (Color)<br><0.005 lux @ F1.6 (B/W)<br>0 lux with IR illumination on | 0.015 lux @ F1.6 (Color)<br><0.005 lux @ F1.6 (B/W)<br>0 lux with IR illumination on |
| Video/ Audio/ Network        |                                                                                    |                                                                                     |                                                                                     |                                                                                      |
| Video Compression Codec      | H.265, H.264, MJPEG                                                                | H.265, H.264, MJPEG                                                                 | H.265, H.264, MJPEG                                                                 | H.265, H.264, MJPEG                                                                  |
| Maximum Frame Rate           | 30 fps @ 2560x1920 (5MP)                                                           | 30 fps @ 2560x1920 (5MP)                                                            | 30 fps @ 3840x2160 (8MP)                                                            | 30 fps @ 3840x2160 (8MP)                                                             |
| Built-in Mic                 | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| ONVIF                        | Profile G, S, T                                                                    | Profile G, S, T                                                                     | Profile G, S, T                                                                     | Profile G, S, T                                                                      |
| AI Analytics                 |                                                                                    |                                                                                     |                                                                                     |                                                                                      |
| Smart VCA                    | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| Object Detection (People)    | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| Object Detection (Vehicle)   | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| Attribute Extraction         | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| Object Detection (Re-Search) | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| General                      |                                                                                    |                                                                                     |                                                                                     |                                                                                      |
| Power Consumption            | Max. 12.4W/ 9.6W (IR on/off)                                                       | Max. 12.4W/ 9.6W (IR on/off)                                                        | Max. 12.4W/ 9.6W (IR on/off)                                                        | Max. 12.4W/ 9.6W (IR on/off)                                                         |
| Operating Temperature        | -35 °C ~ 60°C                                                                      | -35 °C ~ 60°C                                                                       | -35 °C ~ 60°C                                                                       | -35 °C ~ 60°C                                                                        |
| Certifications               |                                                                                    |                                                                                     |                                                                                     |                                                                                      |
| IP66                         | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| IP67                         | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                    |
| IK10                         | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| IK10+                        | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                    |
| NEMA 4X                      | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |

# Bullet



IB9368-HT



IB9369 (2.8 mm)



IB9369 (3.6 mm)



IB9380-HV-V2



IB9380-HTV-V2

| Type                         | C-series Entry-level Network Camera                                                  |                                                                                     |                                                                                    |                                                                                     |                                                                                    |
|------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Camera Features              |                                                                                      |                                                                                     |                                                                                    |                                                                                     |                                                                                    |
| Image Sensor                 | 1/2.9" Progressive CMOS                                                              | 1/3.1" Progressive CMOS                                                             | 1/3.1" Progressive CMOS                                                            | 1/2.8" Progressive CMOS                                                             | 1/2.8" Progressive CMOS                                                            |
| Max. Resolution              | 1920x1080 (2MP)                                                                      | 1920x1080 (2MP)                                                                     | 1920x1080 (2MP)                                                                    | 2880x1616 (5MP)                                                                     | 2880x1616 (5MP)                                                                    |
| Focal Length                 | f = 2.8 ~ 12mm                                                                       | f=2.8mm                                                                             | f=3.6mm                                                                            | f = 2.8 mm                                                                          | f = 2.7 ~ 13.5mm                                                                   |
| Field of View                | 93° ~ 32° (H)<br>50° ~ 18° (V)<br>110° ~ 37° (D)                                     | 118° (H)<br>65° (V)<br>140° (D)                                                     | 90° (H)<br>49° (V)<br>106° (D)                                                     | 111.0° (H)<br>59.0° (V)<br>133.0° (D)                                               | 111.0° ~ 32.2° (H)<br>57.0° ~ 18.0° (V)<br>136.0° ~ 37.0°(D)                       |
| WDR                          | WDR Pro                                                                              | WDR Enhanced                                                                        | WDR Enhanced                                                                       | WDR Pro                                                                             | WDR Pro                                                                            |
| IR Distance                  | 30m                                                                                  | 30m                                                                                 | 30m                                                                                | 30m                                                                                 | 30m                                                                                |
| Minimum Illumination         | 0.055 lux @ F1.4 (Color)<br><0.005 lux @ F1.4 (B/W)<br>0 lux with IR illumination on | 0.08 lux @ F2.0 (Color)<br><0.005 lux @ F2.0 (B/W)<br>0 lux with IR illumination on | 0.1 lux @ F2.2 (Color)<br><0.005 lux @ F2.2 (B/W)<br>0 lux with IR illumination on | 0.055 lux @ F1.6 (Color)<br>0.005 lux @ F1.6 (B/W)<br>0 lux with IR illumination on | 0.04 lux @ F1.6 (Color)<br>0.005 lux @ F1.6 (B/W)<br>0 lux with IR illumination on |
| Video/ Audio/ Network        |                                                                                      |                                                                                     |                                                                                    |                                                                                     |                                                                                    |
| Video Compression Codec      | H.265, H.264, MJPEG                                                                  | H.265, H.264, MJPEG                                                                 | H.265, H.264, MJPEG                                                                | H.265, H.264, MJPEG                                                                 | H.265, H.264, MJPEG                                                                |
| Maximum Frame Rate           | 30 fps @ 1920x1080                                                                   | 30 fps @ 1920x1080                                                                  | 30 fps @ 1920x1080                                                                 | 30 fps @ 2880x1616                                                                  | 30 fps @ 2880x1616                                                                 |
| Built-in Mic                 | -                                                                                    | -                                                                                   | -                                                                                  | V                                                                                   | V                                                                                  |
| ONVIF                        | Profile G, S, T                                                                      | Profile G, S, T                                                                     | Profile G, S, T                                                                    | Profile G, S, T                                                                     | Profile G, S, T                                                                    |
| AI Analytics                 |                                                                                      |                                                                                     |                                                                                    |                                                                                     |                                                                                    |
| Smart VCA                    | -                                                                                    | -                                                                                   | -                                                                                  | V                                                                                   | V                                                                                  |
| Object Detection (People)    | -                                                                                    | -                                                                                   | -                                                                                  | V                                                                                   | V                                                                                  |
| Object Detection (Vehicle)   | -                                                                                    | -                                                                                   | -                                                                                  | V                                                                                   | V                                                                                  |
| Attribute Extraction         | -                                                                                    | -                                                                                   | -                                                                                  | -                                                                                   | -                                                                                  |
| Object Detection (Re-Search) | -                                                                                    | -                                                                                   | -                                                                                  | -                                                                                   | -                                                                                  |
| General                      |                                                                                      |                                                                                     |                                                                                    |                                                                                     |                                                                                    |
| Power Consumption            | Max. 12.95 W/9 W (IR on/off)                                                         | Max. 6W/4W (IR on/off)<br>DC 12V: Max. 5.1W/3.4W (IR on/off)                        | Max. 6W/4W (IR on/off)<br>DC 12V: Max. 5.1W/3.4W (IR on/off)                       | 6.5W                                                                                | 8W                                                                                 |
| Operating Temperature        | -30 °C ~ 60°C                                                                        | -30 °C ~ 55°C                                                                       | -30 °C ~ 55°C                                                                      | -30 °C ~ 60°C                                                                       | -30 °C ~ 60°C                                                                      |
| Certifications               |                                                                                      |                                                                                     |                                                                                    |                                                                                     |                                                                                    |
| IP66                         | V                                                                                    | V                                                                                   | V                                                                                  | V                                                                                   | V                                                                                  |
| IP67                         | -                                                                                    | -                                                                                   | -                                                                                  | -                                                                                   | -                                                                                  |
| IK10                         | V                                                                                    | V                                                                                   | V                                                                                  | V                                                                                   | V                                                                                  |
| IK10+                        | -                                                                                    | -                                                                                   | -                                                                                  | -                                                                                   | -                                                                                  |
| NEMA 4X                      | -                                                                                    | -                                                                                   | -                                                                                  | -                                                                                   | -                                                                                  |



Model Name

IB9383-HTV

IB9383-HV

IB9365-EHTV-V2

IB9367-EHT-V2 (2.7-13.5 mm)

IB9367-EHT-V2 (5-50 mm)

| Type                         | C-series AI Camera                                                                 |                                                                                     | V-series Modular AI Camera                                                                                                     |                                                                                                                                                          |                                                                                                                                                          |
|------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera Features              |                                                                                    |                                                                                     |                                                                                                                                |                                                                                                                                                          |                                                                                                                                                          |
| Image Sensor                 | 1/2.8" Progressive CMOS                                                            | 1/2.8" Progressive CMOS                                                             | 1/2" Progressive CMOS                                                                                                          | 1/2.8" Progressive CMOS                                                                                                                                  | 1/2.8" Progressive CMOS                                                                                                                                  |
| Max. Resolution              | 2560x1920 (5MP)                                                                    | 2560x1920 (5MP)                                                                     | 1920x1080 (2MP)                                                                                                                | 1920x1080 (2MP)                                                                                                                                          | 1920x1080 (2MP)                                                                                                                                          |
| Focal Length                 | f = 2.8 ~ 12mm                                                                     | f = 3.6 mm                                                                          | f = 4 ~ 9 mm (f = 3.5 ~11.4 mm, equivalent focal length @ 1/2.8")                                                              | f = 2.7 ~ 13.5 mm                                                                                                                                        | f = 5 ~ 50 mm                                                                                                                                            |
| Field of View                | 95.4° ~ 28.7° (H)<br>68.8° ~ 21.5° (V)<br>129.6° ~ 35.9°(D)                        | 79.6° (H)<br>57.8° (V)<br>105.8° (D)                                                | 100° ~ 46° (H)<br>52° ~ 26° (V)<br>120° ~ 53° (D)                                                                              | 105° ~ 33° (H)<br>55° ~ 18° (V)<br>126° ~ 37° (D)                                                                                                        | 47° ~ 8° (H)<br>26° ~ 5° (V)<br>55° ~ 9° (D)                                                                                                             |
| WDR                          | WDR Pro                                                                            | WDR Pro                                                                             | WDR Pro II                                                                                                                     | WDR Pro                                                                                                                                                  | WDR Pro                                                                                                                                                  |
| IR Distance                  | 30m                                                                                | 30m                                                                                 | 50m                                                                                                                            | 50m                                                                                                                                                      | 100m                                                                                                                                                     |
| Minimum Illumination         | 0.04 lux @ F1.6 (Color)<br>0.005 lux @ F1.6 (B/W)<br>0 lux with IR illumination on | 0.055 lux @ F2.0 (Color)<br>0.005 lux @ F2.0 (B/W)<br>0 lux with IR illumination on | 0.040 lux @ F1.3 (Color), 50IRE<br>0.015 lux @ F1.3 (Color), 30IRE<br><0.005 lux @ F1.3 (B/W)<br>0 lux with IR illumination on | 0.035 lux @ F1.4 (Color)(30IRE)<br>0.080 lux @ F1.4 (Color)(50IRE)<br><0.005 lux @ F1.4 (B/W)<br>0 lux with IR illumination on                           | 0.040 lux @ F2.0 (Color)(30IRE)<br>0.085 lux @ F2.0 (Color)(50IRE)<br><0.005 lux @ F2.0 (B/W)<br>0 lux with IR illumination on                           |
| Video/ Audio/ Network        |                                                                                    |                                                                                     |                                                                                                                                |                                                                                                                                                          |                                                                                                                                                          |
| Video Compression Codec      | H.265, H.264, MJPEG                                                                | H.265, H.264, MJPEG                                                                 | H.265, H.264, MJPEG                                                                                                            | H.265, H.264, MJPEG                                                                                                                                      | H.265, H.264, MJPEG                                                                                                                                      |
| Maximum Frame Rate           | 30 fps @ 2560x1920                                                                 | 30 fps @ 2560x1920                                                                  | 60 fps @ 1920x1080                                                                                                             | 30 fps @ 1920x1080 (WDR Pro on)<br>60 fps @ 1920x1080 (WDR Pro off)                                                                                      | 30 fps @ 1920x1080 (WDR Pro on)<br>60 fps @ 1920x1080 (WDR Pro off)                                                                                      |
| Built-in Mic                 | V                                                                                  | V                                                                                   | -                                                                                                                              | -                                                                                                                                                        | -                                                                                                                                                        |
| ONVIF                        | Profile G, S, T                                                                    | Profile G, S, T                                                                     | Profile G, S, T                                                                                                                | Profile G, S, T                                                                                                                                          | Profile G, S, T                                                                                                                                          |
| AI Analytics                 |                                                                                    |                                                                                     |                                                                                                                                |                                                                                                                                                          |                                                                                                                                                          |
| Smart VCA                    | V                                                                                  | V                                                                                   | V                                                                                                                              | V                                                                                                                                                        | V                                                                                                                                                        |
| Object Detection (People)    | V                                                                                  | V                                                                                   | V                                                                                                                              | V                                                                                                                                                        | V                                                                                                                                                        |
| Object Detection (Vehicle)   | V                                                                                  | V                                                                                   | V                                                                                                                              | V                                                                                                                                                        | V                                                                                                                                                        |
| Attribute Extraction         | V                                                                                  | V                                                                                   | V                                                                                                                              | -                                                                                                                                                        | -                                                                                                                                                        |
| Object Detection (Re-Search) | V                                                                                  | V                                                                                   | V                                                                                                                              | -                                                                                                                                                        | -                                                                                                                                                        |
| General                      |                                                                                    |                                                                                     |                                                                                                                                |                                                                                                                                                          |                                                                                                                                                          |
| Power Consumption            | Max. 12.4 W/ 8.0 W (IR on/off)                                                     | Max. 10.6 W / 6.0 W (IR on/off)                                                     | PoE: 22.23/18.65 W (IR on/off)<br>DC 12V: 17.28/13.70 W (IR on/off)<br>AC 24V: 18.26/14.68 W (IR on/off)                       | PoE: Max. 10.77/7.77 W (IR on/off)<br>DC 12V: Max. 9.24/6.24 W (IR on/off)<br>AC 24V*: Max. 10.3/7.3 W (IR on/off)<br>*Requires extension I/O module kit | PoE: Max. 10.77/7.77 W (IR on/off)<br>DC 12V: Max. 9.24/6.24 W (IR on/off)<br>AC 24V*: Max. 10.3/7.3 W (IR on/off)<br>*Requires extension I/O module kit |
| Operating Temperature        | -30 °C ~ 55°C                                                                      | -30 °C ~ 55°C                                                                       | -50 °C ~ 60°C                                                                                                                  | -40 °C ~ 60°C                                                                                                                                            | -40 °C ~ 60°C                                                                                                                                            |
| Certifications               |                                                                                    |                                                                                     |                                                                                                                                |                                                                                                                                                          |                                                                                                                                                          |
| IP66                         | V                                                                                  | V                                                                                   | V                                                                                                                              | V                                                                                                                                                        | V                                                                                                                                                        |
| IP67                         | -                                                                                  | -                                                                                   | V                                                                                                                              | V                                                                                                                                                        | V                                                                                                                                                        |
| IK10                         | V                                                                                  | V                                                                                   | V                                                                                                                              | V                                                                                                                                                        | V                                                                                                                                                        |
| IK10+                        | -                                                                                  | -                                                                                   | -                                                                                                                              | -                                                                                                                                                        | -                                                                                                                                                        |
| NEMA 4X                      | -                                                                                  | -                                                                                   | V                                                                                                                              | V                                                                                                                                                        | V                                                                                                                                                        |



Bullet



| Model Name                   | IB9387-EHTV-V3 (2.7-13.5 mm)                                                                                         | IB9387-EHTV-V3 (7-22 mm)                                                                                             | IB9387-EHTV-V3 (12-40 mm)                                                                                            | IB9391-EHTV-V2                                                                                           |
|------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Type                         | V-series Modular AI Camera                                                                                           |                                                                                                                      |                                                                                                                      |                                                                                                          |
| Camera Features              |                                                                                                                      |                                                                                                                      |                                                                                                                      |                                                                                                          |
| Image Sensor                 | 1/2.8" Progressive CMOS                                                                                              | 1/2.8" Progressive CMOS                                                                                              | 1/2.8" Progressive CMOS                                                                                              | 1/1.8" Progressive CMOS                                                                                  |
| Max. Resolution              | 2560x1920 (5MP)                                                                                                      | 2560x1920 (5MP)                                                                                                      | 2560x1920 (5MP)                                                                                                      | 3840x2160 (8MP)                                                                                          |
| Focal Length                 | f = 2.7 ~ 13.5 mm                                                                                                    | f = 7 ~ 22 mm                                                                                                        | f = 12 ~ 40 mm                                                                                                       | f = 4.4 ~ 10.2 mm<br>(f = 3.2~10.3mm, equivalent focal length @ 1/2.8")                                  |
| Field of View                | 100.1° ~ 29.9° (H)<br>71.8° ~ 22.4° (V)<br>135.2° ~ 37.4° (D)                                                        | 39.3° ~ 15.5° (H)<br>28.8° ~ 11.6° (V)<br>50.8° ~ 19.4° (D)                                                          | 24.2° ~ 8.3° (H)<br>18° ~ 6.3° (V)<br>30.5° ~ 10.4° (D)                                                              | 100° ~ 43° (H)<br>50° ~ 24° (V)<br>110° ~ 49° (D)                                                        |
| WDR                          | WDR Pro                                                                                                              | WDR Pro                                                                                                              | WDR Pro                                                                                                              | WDR Pro                                                                                                  |
| IR Distance                  | 50m                                                                                                                  | 50m                                                                                                                  | 100m                                                                                                                 | 50m                                                                                                      |
| Minimum Illumination         | 0.04 lux @ F1.8 (Color)<br><0.005 lux @ F1.8 (B/W)<br>0 lux with IR illumination on                                  | 0.035 lux @ F1.7 (Color)<br><0.005 lux @ F1.7 (B/W)<br>0 lux with IR illumination on                                 | 0.075 lux @ F2.2 (Color)<br><0.005 lux @ F2.2 (B/W)<br>0 lux with IR illumination on                                 | 0.01 lux @ F1.38 (Color)<br><0.005 lux @ F1.38 (B/W)<br>0 lux with IR illumination on                    |
| Video/ Audio/ Network        |                                                                                                                      |                                                                                                                      |                                                                                                                      |                                                                                                          |
| Video Compression Codec      | H.265, H.264, MJPEG                                                                                                  | H.265, H.264, MJPEG                                                                                                  | H.265, H.264, MJPEG                                                                                                  | H.265, H.264, MJPEG                                                                                      |
| Maximum Frame Rate           | 30 fps @ 2560x1920 (WDR Pro on)<br>30 fps @ 2560x1440 (WDR Pro on)<br>60 fps @ 1920x1080 (WDR Pro off)               | 30 fps @ 2560x1920 (WDR Pro on)<br>30 fps @ 2560x1440 (WDR Pro on)<br>60 fps @ 1920x1080 (WDR Pro off)               | 30 fps @ 2560x1920 (WDR Pro on)<br>30 fps @ 2560x1440 (WDR Pro on)<br>60 fps @ 1920x1080 (WDR Pro off)               | 30 fps @ 3840x2160                                                                                       |
| Built-in Mic                 | -                                                                                                                    | -                                                                                                                    | -                                                                                                                    | -                                                                                                        |
| ONVIF                        | Profile G, S, T                                                                                                      | Profile G, S, T                                                                                                      | Profile G, S, T                                                                                                      | Profile G, S, T                                                                                          |
| AI Analytics                 |                                                                                                                      |                                                                                                                      |                                                                                                                      |                                                                                                          |
| Smart VCA                    | √                                                                                                                    | √                                                                                                                    | √                                                                                                                    | √                                                                                                        |
| Object Detection (People)    | √                                                                                                                    | √                                                                                                                    | √                                                                                                                    | √                                                                                                        |
| Object Detection (Vehicle)   | √                                                                                                                    | √                                                                                                                    | √                                                                                                                    | √                                                                                                        |
| Attribute Extraction         | √                                                                                                                    | √                                                                                                                    | √                                                                                                                    | √                                                                                                        |
| Object Detection (Re-Search) | √                                                                                                                    | √                                                                                                                    | √                                                                                                                    | √                                                                                                        |
| General                      |                                                                                                                      |                                                                                                                      |                                                                                                                      |                                                                                                          |
| Power Consumption            | PoE: Max. 12.95W/ 10.55W (IR on/off)<br>DC 12V: Max. 14.4W/ 12.0W (IR on/off)<br>AC 24V*: Max. 12W/ 9.6W (IR on/off) | PoE: Max. 12.95W/ 10.55W (IR on/off)<br>DC 12V: Max. 14.4W/ 12.0W (IR on/off)<br>AC 24V*: Max. 12W/ 9.6W (IR on/off) | PoE: Max. 12.95W/ 10.55W (IR on/off)<br>DC 12V: Max. 14.4W/ 12.0W (IR on/off)<br>AC 24V*: Max. 12W/ 9.6W (IR on/off) | PoE: 19.38/15.80 W (IR on/off)<br>DC 12V: 15.84/12.26 W (IR on/off)<br>AC 24V: 16.52/12.94 W (IR on/off) |
| Operating Temperature        | -40 °C ~ 60°C                                                                                                        | -40 °C ~ 60°                                                                                                         | -40 °C ~ 60°                                                                                                         | -50 °C ~ 60°C                                                                                            |
| Certifications               |                                                                                                                      |                                                                                                                      |                                                                                                                      |                                                                                                          |
| IP66                         | √                                                                                                                    | √                                                                                                                    | √                                                                                                                    | √                                                                                                        |
| IP67                         | √                                                                                                                    | √                                                                                                                    | √                                                                                                                    | √                                                                                                        |
| IK10                         | √                                                                                                                    | √                                                                                                                    | √                                                                                                                    | √                                                                                                        |
| IK10+                        | -                                                                                                                    | -                                                                                                                    | -                                                                                                                    | -                                                                                                        |
| NEMA 4X                      | √                                                                                                                    | √                                                                                                                    | √                                                                                                                    | √                                                                                                        |


**IB9389-EHTV-V3**

**IB9389-EHV-V3**

**IB9399-EHTV**

**IB9399-EHV**

| Type                         | V-series AI Camera                                                                 |                                                                                     |                                                                                     |                                                                                      |
|------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Camera Features              |                                                                                    |                                                                                     |                                                                                     |                                                                                      |
| Image Sensor                 | 1/2.8" Progressive CMOS                                                            | 1/2.8" Progressive CMOS                                                             | 1/1.8" Progressive CMOS                                                             | 1/1.8" Progressive CMOS                                                              |
| Max. Resolution              | 2560x1920 (5MP)                                                                    | 2560x1920 (5MP)                                                                     | 3840x2160 (8MP)                                                                     | 3840x2160 (8MP)                                                                      |
| Focal Length                 | f = 2.8~12 mm                                                                      | f = 2.8 mm                                                                          | f = 4.3~9.8mm                                                                       | f = 4.2 mm                                                                           |
| Field of View                | 95.4° ~ 28.7° (H)<br>68.8° ~ 21.5° (V)<br>129.6° ~ 35.9°(D)                        | 103.4° (H)<br>75.3° (V)<br>135.2° (D)                                               | 110.4° ~ 45.1° (H)<br>57.9° ~ 25.4° (V)<br>133.9° ~ 51.8°(D)                        | 110.74° (H)<br>59.1° (V)<br>131.0° (D)                                               |
| WDR                          | WDR Pro                                                                            | WDR Pro                                                                             | WDR Pro                                                                             | WDR Pro                                                                              |
| IR Distance                  | 40m                                                                                | 40m                                                                                 | 40m                                                                                 | 40m                                                                                  |
| Minimum Illumination         | 0.04 lux @ F1.6 (Color)<br>0.005 lux @ F1.6 (B/W)<br>0 lux with IR illumination on | 0.055 lux @ F2.0 (Color)<br>0.005 lux @ F2.0 (B/W)<br>0 lux with IR illumination on | 0.02 lux @ F1.6 (Color)<br><0.005 lux @ F1.6 (B/W)<br>0 lux with IR illumination on | 0.015 lux @ F1.6 (Color)<br><0.005 lux @ F1.6 (B/W)<br>0 lux with IR illumination on |
| Video/ Audio/ Network        |                                                                                    |                                                                                     |                                                                                     |                                                                                      |
| Video Compression Codec      | H.265, H.264, MJPEG                                                                | H.265, H.264, MJPEG                                                                 | H.265, H.264, MJPEG                                                                 | H.265, H.264, MJPEG                                                                  |
| Maximum Frame Rate           | 30 fps @ 2560x1920 (5MP)                                                           | 30 fps @ 2560x1920 (5MP)                                                            | 30 fps @ 3840x2160 (8MP)                                                            | 30 fps @ 3840x2160 (8MP)                                                             |
| Built-in Mic                 | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| ONVIF                        | Profile G, S, T                                                                    | Profile G, S, T                                                                     | Profile G, S, T                                                                     | Profile G, S, T                                                                      |
| AI Analytics                 |                                                                                    |                                                                                     |                                                                                     |                                                                                      |
| Smart VCA                    | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| Object Detection (People)    | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| Object Detection (Vehicle)   | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| Attribute Extraction         | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| Object Detection (Re-Search) | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| General                      |                                                                                    |                                                                                     |                                                                                     |                                                                                      |
| Power Consumption            | Max. 12.4W/ 9.6W (IR on/off)                                                       | Max. 12.4W/ 9.6W (IR on/off)                                                        | Max. 12.4W/ 9.6W (IR on/off)                                                        | Max. 12.4W/ 9.6W (IR on/off)                                                         |
| Operating Temperature        | -35 °C ~ 60°C                                                                      | -35 °C ~ 60°C                                                                       | -35 °C ~ 60°C                                                                       | -35 °C ~ 60°C                                                                        |
| Certifications               |                                                                                    |                                                                                     |                                                                                     |                                                                                      |
| IP66                         | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| IP67                         | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| IK10                         | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| IK10+                        | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                    |
| NEMA 4X                      | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                    |

# Turret



IT9360-H (2.8 mm)



IT9360-H (3.6 mm)



IT9380-HTV-V2



IT9380-HV-V2



IT9383-HTVW

| Type                         | C-series Entry-level Network Camera                                                  |                                                                                      |                                                                                    |                                                                                     | C-series AI camera                                                                 |
|------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Camera Features              |                                                                                      |                                                                                      |                                                                                    |                                                                                     |                                                                                    |
| Image Sensor                 | 1/2.9" Progressive CMOS                                                              | 1/2.9" Progressive CMOS                                                              | 1/2.8" Progressive CMOS                                                            | 1/2.8" Progressive CMOS                                                             | 1/2.8" Progressive CMOS                                                            |
| Max. Resolution              | 1920x1080 (2MP)                                                                      | 1920x1080 (2MP)                                                                      | 2880x1616 (5MP)                                                                    | 2880x1616 (5MP)                                                                     | 2560x1920 (5MP)                                                                    |
| Focal Length                 | f = 2.8 mm                                                                           | f = 3.6 mm                                                                           | f = 2.7 ~ 13.5mm                                                                   | f = 2.8 mm                                                                          | f = 2.8~12 mm                                                                      |
| Field of View                | 109° (H)<br>59° (V)<br>129° (D)                                                      | 81° (H)<br>44° (V)<br>95° (D)                                                        | 111.0° ~ 32.2° (H)<br>57.0° ~ 18.0° (V)<br>136.0° ~ 37.0°(D)                       | 111.0° (H)<br>59.0° (V)<br>133.0° (D)                                               | 95.4° ~ 28.7° (H)<br>68.8° ~ 21.5° (V)<br>129.6° ~ 35.9°(D)                        |
| WDR                          | WDR Pro                                                                              | WDR Pro                                                                              | WDR Pro                                                                            | WDR Pro                                                                             | WDR Pro                                                                            |
| IR Distance                  | 30m                                                                                  | 30m                                                                                  | 30m                                                                                | 30m                                                                                 | 30m                                                                                |
| Minimum Illumination         | 0.065 lux @ F2.0 (Color)<br><0.005 lux @ F2.0 (B/W)<br>0 lux with IR illumination on | 0.065 lux @ F2.0 (Color)<br><0.005 lux @ F2.0 (B/W)<br>0 lux with IR illumination on | 0.04 lux @ F1.6 (Color)<br>0.005 lux @ F1.6 (B/W)<br>0 lux with IR illumination on | 0.055 lux @ F1.6 (Color)<br>0.005 lux @ F1.6 (B/W)<br>0 lux with IR illumination on | 0.04 lux @ F1.6 (Color)<br>0.005 lux @ F1.6 (B/W)<br>0 lux with IR illumination on |
| Video/ Audio/ Network        |                                                                                      |                                                                                      |                                                                                    |                                                                                     |                                                                                    |
| Video Compression Codec      | H.265, H.264, MJPEG                                                                  | H.265, H.264, MJPEG                                                                  | H.265, H.264, MJPEG                                                                | H.265, H.264, MJPEG                                                                 | H.265, H.264, MJPEG                                                                |
| Maximum Frame Rate           | 30 fps @ 1920x1080                                                                   | 30 fps @ 1920x1080                                                                   | 30 fps @ 2880x1616                                                                 | 30 fps @ 2880x1616                                                                  | 30 fps @ 2560x1920 (5MP)                                                           |
| Built-in Mic                 | V                                                                                    | V                                                                                    | V                                                                                  | V                                                                                   | V                                                                                  |
| ONVIF                        | Profile G, S, T                                                                      | Profile G, S, T                                                                      | Profile G, S, T                                                                    | Profile G, S, T                                                                     | Profile G, S, T                                                                    |
| AI Analytics                 |                                                                                      |                                                                                      |                                                                                    |                                                                                     |                                                                                    |
| Smart VCA                    | -                                                                                    | -                                                                                    | V                                                                                  | V                                                                                   | V                                                                                  |
| Object Detection (People)    | -                                                                                    | -                                                                                    | V                                                                                  | V                                                                                   | V                                                                                  |
| Object Detection (Vehicle)   | -                                                                                    | -                                                                                    | V                                                                                  | V                                                                                   | V                                                                                  |
| Attribute Extraction         | -                                                                                    | -                                                                                    | -                                                                                  | -                                                                                   | V                                                                                  |
| Object Detection (Re-Search) | -                                                                                    | -                                                                                    | -                                                                                  | -                                                                                   | V                                                                                  |
| General                      |                                                                                      |                                                                                      |                                                                                    |                                                                                     |                                                                                    |
| Power Consumption            | Max. 6 W/3.31 W (IR on/off)                                                          | Max. 6 W/3.31 W (IR on/off)                                                          | 8W                                                                                 | 6W                                                                                  | Max: 12.2W / 8.5W (IR on/off)<br>Normal 5.5W                                       |
| Operating Temperature        | -20 °C ~ 60°C                                                                        | -20 °C ~ 60°C                                                                        | -30 °C ~ 60°C                                                                      | -30 °C ~ 60°C                                                                       | -30 °C ~ 50°C                                                                      |
| Certifications               |                                                                                      |                                                                                      |                                                                                    |                                                                                     |                                                                                    |
| IP66                         | V                                                                                    | V                                                                                    | V                                                                                  | V                                                                                   | V                                                                                  |
| IP67                         | -                                                                                    | -                                                                                    | -                                                                                  | -                                                                                   | -                                                                                  |
| IK10                         | V                                                                                    | V                                                                                    | V                                                                                  | V                                                                                   | V                                                                                  |
| IK10+                        | -                                                                                    | -                                                                                    | -                                                                                  | -                                                                                   | -                                                                                  |
| NEMA 4X                      | -                                                                                    | -                                                                                    | -                                                                                  | -                                                                                   | -                                                                                  |

# Turret

24



Model Name IT9383-HVW



NEW IT9389-HTVW-V3



NEW IT9389-HVW-V3



NEW IT9399-HTVW



NEW IT9399-HVW

| Type                         | C-series AI camera                                                                  | V-series AI Camera                                                                 |                                                                                     |                                                                                     |                                                                                      |
|------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Camera Features              |                                                                                     |                                                                                    |                                                                                     |                                                                                     |                                                                                      |
| Image Sensor                 | 1/2.8" Progressive CMOS                                                             | 1/2.8" Progressive CMOS                                                            | 1/2.8" Progressive CMOS                                                             | 1/1.8" Progressive CMOS                                                             | 1/1.8" Progressive CMOS                                                              |
| Max. Resolution              | 2560x1920 (5MP)                                                                     | 2560x1920 (5MP)                                                                    | 2560x1920 (5MP)                                                                     | 3840x2160 (8MP)                                                                     | 3840x2160 (8MP)                                                                      |
| Focal Length                 | f = 2.8 mm                                                                          | f = 2.8~12 mm                                                                      | f = 2.8 mm                                                                          | f = 4.3~9.8mm                                                                       | f = 4.2 mm                                                                           |
| Field of View                | 103.4° (H)<br>75.3° (V)<br>135.2° (D)                                               | 95.4° ~ 28.7° (H)<br>68.8° ~ 21.5° (V)<br>129.6° ~ 35.9°(D)                        | 103.4° (H)<br>75.3° (V)<br>135.2° (D)                                               | 110.4° ~ 45.1° (H)<br>57.9° ~ 25.4° (V)<br>133.9° ~ 51.8°(D)                        | 110.74° (H)<br>59.1° (V)<br>131.0° (D)                                               |
| WDR                          | WDR Pro                                                                             | WDR Pro                                                                            | WDR Pro                                                                             | WDR Pro                                                                             | WDR Pro                                                                              |
| IR Distance                  | 30m                                                                                 | 40m                                                                                | 40m                                                                                 | 40m                                                                                 | 40m                                                                                  |
| Minimum Illumination         | 0.055 lux @ F2.0 (Color)<br>0.005 lux @ F2.0 (B/W)<br>0 lux with IR illumination on | 0.04 lux @ F1.6 (Color)<br>0.005 lux @ F1.6 (B/W)<br>0 lux with IR illumination on | 0.055 lux @ F2.0 (Color)<br>0.005 lux @ F2.0 (B/W)<br>0 lux with IR illumination on | 0.02 lux @ F1.6 (Color)<br><0.005 lux @ F1.6 (B/W)<br>0 lux with IR illumination on | 0.015 lux @ F1.6 (Color)<br><0.005 lux @ F1.6 (B/W)<br>0 lux with IR illumination on |
| Video/ Audio/ Network        |                                                                                     |                                                                                    |                                                                                     |                                                                                     |                                                                                      |
| Video Compression Codec      | H.265, H.264, MJPEG                                                                 | H.265, H.264, MJPEG                                                                | H.265, H.264, MJPEG                                                                 | H.265, H.264, MJPEG                                                                 | H.265, H.264, MJPEG                                                                  |
| Maximum Frame Rate           | 30 fps @ 2560x1920 (5MP)                                                            | 30 fps @ 2560x1920 (5MP)                                                           | 30 fps @ 2560x1920 (5MP)                                                            | 30 fps @ 3840x2160 (8MP)                                                            | 30 fps @ 3840x2160 (8MP)                                                             |
| Built-in Mic                 | V                                                                                   | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| ONVIF                        | Profile G, S, T                                                                     | Profile G, S, T                                                                    | Profile G, S, T                                                                     | Profile G, S, T                                                                     | Profile G, S, T                                                                      |
| AI Analytics                 |                                                                                     |                                                                                    |                                                                                     |                                                                                     |                                                                                      |
| Smart VCA                    | V                                                                                   | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| Object Detection (People)    | V                                                                                   | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| Object Detection (Vehicle)   | V                                                                                   | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| Attribute Extraction         | V                                                                                   | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| Object Detection (Re-Search) | V                                                                                   | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| General                      |                                                                                     |                                                                                    |                                                                                     |                                                                                     |                                                                                      |
| Power Consumption            | Max: 10.7W / 7W (IR on/off)<br>Normal 5.5W                                          | Max. 12.4W/ 9.6W (IR on/off)                                                       | Max. 12.4W/ 9.6W (IR on/off)                                                        | Max. 12.4W/ 9.6W (IR on/off)                                                        | Max. 12.4W/ 9.6W (IR on/off)                                                         |
| Operating Temperature        | -30 °C ~ 50°C                                                                       | -30 °C ~ 50°C                                                                      | -30 °C ~ 50°C                                                                       | -30 °C ~ 50°C                                                                       | -30 °C ~ 50°C                                                                        |
| Certifications               |                                                                                     |                                                                                    |                                                                                     |                                                                                     |                                                                                      |
| IP66                         | V                                                                                   | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| IP67                         | -                                                                                   | -                                                                                  | -                                                                                   | -                                                                                   | V                                                                                    |
| IK10                         | V                                                                                   | V                                                                                  | V                                                                                   | V                                                                                   | V                                                                                    |
| IK10+                        | -                                                                                   | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                    |
| NEMA 4X                      | -                                                                                   | -                                                                                  | -                                                                                   | -                                                                                   | -                                                                                    |

# Panoramic



FE9180-H-V2



FE9380-HV



CC9160-H



CC9160-H(DJ)



CC9160-H(HS)

| Type                         | C-series Fisheye Panoramic Camera                           |                                                                                       | C-series Compact Panoramic Camera |                                  |                                  |
|------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------|----------------------------------|----------------------------------|
| Camera Features              |                                                             |                                                                                       |                                   |                                  |                                  |
| Image Sensor                 | 1/2.7" Progressive CMOS in 2688x1944                        | 1/2.7" Progressive CMOS in 2688x1944                                                  | 1/2.8" Progressive CMOS           | 1/2.8" Progressive CMOS          | 1/2.8" Progressive CMOS          |
| Max. Resolution              | 1920x1920                                                   | 1920x1920                                                                             | 1920x1080 (2MP)                   | 1920x1080 (2MP)                  | 1920x1080 (2MP)                  |
| Focal Length                 | f ≈ 1.16mm                                                  | f ≈ 1.16mm                                                                            | f ≈ 1.66 mm                       | f ≈ 1.66 mm                      | f ≈ 1.66 mm                      |
| Field of View                | 180° (H)<br>180° (V)<br>180° (D)                            | 180° (H)<br>180° (V)<br>180° (D)                                                      | 180° (H)<br>100° (V)<br>180° (D)  | 180° (H)<br>100° (V)<br>180° (D) | 180° (H)<br>100° (V)<br>180° (D) |
| WDR                          | WDR Pro                                                     | WDR Pro                                                                               | WDR Pro                           | WDR Pro                          | WDR Pro                          |
| IR Distance                  | NA                                                          | 10m                                                                                   | NA                                | NA                               | NA                               |
| Minimum Illumination         | 0.05 lux @ F2.25 (Color)<br><0.005 lux @ F2.25 (B/W)        | 0.05 lux @ F2.25 (Color)<br><0.005 lux @ F2.25 (B/W)<br>0 lux with IR illumination on | 0.03 lux@F1.95                    | 0.03 lux@F1.95                   | 0.03 lux@F1.95                   |
| Video/ Audio/ Network        |                                                             |                                                                                       |                                   |                                  |                                  |
| Video Compression Codec      | H.265, H.264, MJPEG                                         | H.265, H.264, MJPEG                                                                   | H.265, H.264, MJPEG               | H.265, H.264, MJPEG              | H.265, H.264, MJPEG              |
| Maximum Frame Rate           | 24 fps @ 1920x1920 (WDR on)<br>30 fps @ 1920x1920 (WDR off) | 24 fps @ 1920x1920 (WDR on)<br>30 fps @ 1920x1920 (WDR off)                           | 30 fps @ 1920x1080                | 30 fps @ 1920x1080               | 30 fps @ 1920x1080               |
| Built-in Mic                 | V                                                           | V                                                                                     | V                                 | -                                | -                                |
| ONVIF                        | Profile G, S, T                                             | Profile G, S, T                                                                       | Profile G, S, T                   | Profile G, S, T                  | Profile G, S, T                  |
| AI Analytics                 |                                                             |                                                                                       |                                   |                                  |                                  |
| Smart VCA                    | -                                                           | -                                                                                     | -                                 | -                                | -                                |
| Object Detection (People)    | -                                                           | -                                                                                     | -                                 | -                                | -                                |
| Object Detection (Vehicle)   | -                                                           | -                                                                                     | -                                 | -                                | -                                |
| Attribute Extraction         | -                                                           | -                                                                                     | -                                 | -                                | -                                |
| Object Detection (Re-Search) | -                                                           | -                                                                                     | -                                 | -                                | -                                |
| General                      |                                                             |                                                                                       |                                   |                                  |                                  |
| Power Consumption            | Max 4.6 W                                                   | Max. 12 W/3.8 W (IR on/off)                                                           | Max. 5W                           | Max: 5W                          | Max. 5W                          |
| Operating Temperature        | -10 °C ~ 50°C                                               | -30 °C ~ 60°C                                                                         | -10 °C ~ 45°C                     | -10 °C ~ 45°C                    | -10 °C ~ 45°C                    |
| Certifications               |                                                             |                                                                                       |                                   |                                  |                                  |
| IP66                         | -                                                           | V                                                                                     | -                                 | -                                | -                                |
| IP67                         | -                                                           | -                                                                                     | -                                 | -                                | -                                |
| IK10                         | -                                                           | V                                                                                     | -                                 | -                                | -                                |
| IK10+                        | -                                                           | -                                                                                     | -                                 | -                                | -                                |
| NEMA 4X                      | -                                                           | -                                                                                     | -                                 | -                                | -                                |



# Panoramic

26



FE9191-H-V2



FE9192-H



FE9382-EHV-V2



FE9391-EHV-V2



FE9391-EV-V2-M12

| Type                         | V-series Fisheye AI Panoramic Camera                      |                                                           |                                                                                      |                                                                                    |                                                                                      |
|------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Camera Features              |                                                           |                                                           |                                                                                      |                                                                                    |                                                                                      |
| Image Sensor                 | 1/2.3" Progressive CMOS in 4056x3040                      | 1/2.3" Progressive CMOS in 4056x3040                      | 1/1.8" Progressive CMOS in 3840x2160                                                 | 1/2.3" Progressive CMOS in 4056x3040                                               | 1/2.3" Progressive CMOS in 4056x3040                                                 |
| Max. Resolution              | 2944x2944                                                 | 2944x2944                                                 | 2048x2048                                                                            | 2944x2944                                                                          | 2816x2816                                                                            |
| Focal Length                 | f = 1.22mm                                                | f = 1.22mm                                                | f = 1.245mm                                                                          | f = 1.22mm                                                                         | f = 1.18mm                                                                           |
| Field of View                | 180° (H)<br>180° (V)<br>180° (D)                          | 180° (H)<br>180° (V)<br>180° (D)                          | 180° (H)<br>180° (V)<br>180° (D)                                                     | 180° (H)<br>180° (V)<br>180° (D)                                                   | 180° ± 5° (H)<br>180° ± 5° (V)                                                       |
| WDR                          | WDR Pro                                                   | WDR Pro                                                   | WDR Pro                                                                              | WDR Pro                                                                            | WDR Pro                                                                              |
| IR Distance                  | NA                                                        | NA                                                        | 20m                                                                                  | 20m                                                                                | 5m                                                                                   |
| Minimum Illumination         | 0.1 lux @ F2.0 (Color)<br><0.005 lux @ F2.0 (B/W)         | 0.1 lux @ F2.0 (Color)<br><0.005 lux @ F2.0 (B/W)         | 0.065 lux @ F1.6 (Color)<br><0.001 lux @ F1.6 (B/W)<br>0 lux with IR illumination on | 0.1 lux @ F2.0 (Color)<br><0.005 lux @ F2.0 (B/W)<br>0 lux with IR illumination on | 0.1 lux @ F2.18 (Color)<br><0.005 lux @ F2.18 (B/W)<br>0 lux with IR illumination on |
| Video/ Audio/ Network        |                                                           |                                                           |                                                                                      |                                                                                    |                                                                                      |
| Video Compression Codec      | H.265, H.264, MJPEG                                       | H.265, H.264, MJPEG                                       | H.265, H.264, MJPEG                                                                  | H.265, H.264, MJPEG                                                                | H.265, H.264, MJPEG                                                                  |
| Maximum Frame Rate           | 30fps @ 2944x2944 (WDR off)<br>20fps @ 2944x2944 (WDR on) | 30fps @ 2944x2944 (WDR off)<br>20fps @ 2944x2944 (WDR on) | 30fps @ 2048x2048 (WDR on)                                                           | 30fps @ 2944x2944 (WDR off)<br>20fps @ 2944x2944 (WDR on)                          | 30fps @ 2816x2816 (WDR off)<br>20fps @ 2816x2816 (WDR on)                            |
| Built-in Mic                 | V                                                         | V                                                         | V                                                                                    | V                                                                                  | V                                                                                    |
| ONVIF                        | Profile G, S, T                                           | Profile G, S, T                                           | Profile G, S, T                                                                      | Profile G, S, T                                                                    | Profile G, S, T                                                                      |
| AI Analytics                 |                                                           |                                                           |                                                                                      |                                                                                    |                                                                                      |
| Smart VCA                    | V                                                         | V                                                         | V                                                                                    | V                                                                                  | -                                                                                    |
| Object Detection (People)    | V                                                         | V                                                         | V                                                                                    | V                                                                                  | -                                                                                    |
| Object Detection (Vehicle)   | V                                                         | V                                                         | V                                                                                    | V                                                                                  | -                                                                                    |
| Attribute Extraction         | V                                                         | V                                                         | V                                                                                    | V                                                                                  | -                                                                                    |
| Object Detection (Re-Search) | V                                                         | V                                                         | V                                                                                    | V                                                                                  | -                                                                                    |
| General                      |                                                           |                                                           |                                                                                      |                                                                                    |                                                                                      |
| Power Consumption            | Max. 9 W                                                  | Max. 9 W                                                  | Max. 12.5 W/5 W (IR on/off)                                                          | Max. 22.5 W/9.55 W (IR on/off)                                                     | Max. 18 W/9.55 W (IR on/off)                                                         |
| Operating Temperature        | -10 °C ~ 50°C                                             | -10 °C ~ 50°C                                             | -40 °C ~ 60°C                                                                        | -40 °C ~ 55°C                                                                      | -40 °C ~ 70°C                                                                        |
| Certifications               |                                                           |                                                           |                                                                                      |                                                                                    |                                                                                      |
| IP66                         | -                                                         | -                                                         | V                                                                                    | V                                                                                  | V                                                                                    |
| IP67                         | -                                                         | -                                                         | -                                                                                    | -                                                                                  | -                                                                                    |
| IK10                         | V                                                         | -                                                         | V                                                                                    | V                                                                                  | V                                                                                    |
| IK10+                        | -                                                         | -                                                         | -                                                                                    | -                                                                                  | -                                                                                    |
| NEMA 4X                      | -                                                         | -                                                         | -                                                                                    | -                                                                                  | -                                                                                    |

# Panoramic



Model Name

FE9391-EV-V2-M12 (M)

CC9380-HV-V2

CC9381-HV-V2

CC9390-HV

CC9391-HV

| Type                         |                                                                                      | V-series Compact Panoramic AI Camera             |                                                                                   |                                                  |                                                                                   |
|------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------|-----------------------------------------------------------------------------------|
| Camera Features              |                                                                                      |                                                  |                                                                                   |                                                  |                                                                                   |
| Image Sensor                 | 1/2.3" Progressive CMOS in 4056x3040                                                 | 1/2.8" Progressive CMOS                          | 1/2.8" Progressive CMOS                                                           | 1/1.8" Progressive CMOS                          | 1/1.8" Progressive CMOS                                                           |
| Max. Resolution              | 2816x2816                                                                            | 2560x1920 (5MP)                                  | 2560x1920 (5MP)                                                                   | 3840x2160 (4K/8MP)                               | 3840x2160 (4K/8MP)                                                                |
| Focal Length                 | f = 1.18mm                                                                           | f = 1.47 mm                                      | f = 1.47 mm                                                                       | f = 2.53mm                                       | f = 2.53mm                                                                        |
| Field of View                | 180° ± 5° (H)<br>180° ± 5° (V)                                                       | 180° (H)<br>120° (V)<br>180°(D)                  | 180° (H)<br>120° (V)<br>180°(D)                                                   | 180° (H)<br>103° (V)<br>180° (D)                 | 180° (H)<br>103° (V)<br>180° (D)                                                  |
| WDR                          | WDR Pro                                                                              | WDR Pro                                          | WDR Pro                                                                           | WDR Pro                                          | WDR Pro                                                                           |
| IR Distance                  | 5m                                                                                   | NA                                               | 20m                                                                               | NA                                               | 20m                                                                               |
| Minimum Illumination         | 0.1 lux @ F2.18 (Color)<br><0.005 lux @ F2.18 (B/W)<br>0 lux with IR illumination on | 0.08 lux @ F2.7 (Color)<br>0.005lux @ F2.7 (B/W) | 0.08 lux @ F2.7 (Color)<br>0.005lux @ F2.7 (B/W)<br>0 lux with IR Illumination on | 0.08 lux @ F2.4 (Color)<br>0.005lux @ F2.4 (B/W) | 0.08 lux @ F2.4 (Color)<br>0.005lux @ F2.4 (B/W)<br>0 lux with IR Illumination on |
| Video/ Audio/ Network        |                                                                                      |                                                  |                                                                                   |                                                  |                                                                                   |
| Video Compression Codec      | H.265, H.264, MJPEG                                                                  | H.265, H.264, MJPEG                              | H.265, H.264, MJPEG                                                               | H.265, H.264, MJPEG                              | H.265, H.264, MJPEG                                                               |
| Maximum Frame Rate           | 30fps @ 2816x2816 (WDR off)<br>20fps @ 2816x2816 (WDR on)                            | 30 fps @ 2560x1920                               | 30 fps @ 2560x1920                                                                | 30 fps @ 3840x2160                               | 30 fps @ 3840x2160                                                                |
| Built-in Mic                 | V                                                                                    | V                                                | V                                                                                 | V                                                | V                                                                                 |
| ONVIF                        | Profile G, S, T                                                                      | Profile G, S, T                                  | Profile G, S, T                                                                   | Profile G, S, T                                  | Profile G, S, T                                                                   |
| AI Analytics                 |                                                                                      |                                                  |                                                                                   |                                                  |                                                                                   |
| Smart VCA                    | -                                                                                    | V                                                | V                                                                                 | V                                                | V                                                                                 |
| Object Detection (People)    | -                                                                                    | V                                                | V                                                                                 | V                                                | V                                                                                 |
| Object Detection (Vehicle)   | -                                                                                    | V                                                | V                                                                                 | V                                                | V                                                                                 |
| Attribute Extraction         | -                                                                                    | V                                                | V                                                                                 | V                                                | V                                                                                 |
| Object Detection (Re-Search) | -                                                                                    | V                                                | V                                                                                 | V                                                | V                                                                                 |
| General                      |                                                                                      |                                                  |                                                                                   |                                                  |                                                                                   |
| Power Consumption            | Max. 18 W/9.55 W (IR on/off)                                                         | Max. 9.12W                                       | Max. 10.26W/6.96W (IR on/off)                                                     | Max. 9.96W                                       | Max. 10.83W/7.5W (IR on/off)                                                      |
| Operating Temperature        | -40 °C ~ 70°C                                                                        | -30 °C ~ 55°C                                    | -30 °C ~ 60°C                                                                     | -30 °C ~ 55°C                                    | -30 °C ~ 60°C                                                                     |
| Certifications               |                                                                                      |                                                  |                                                                                   |                                                  |                                                                                   |
| IP66                         | V                                                                                    | V                                                | V                                                                                 | V                                                | V                                                                                 |
| IP67                         | -                                                                                    | -                                                | -                                                                                 | -                                                | -                                                                                 |
| IK10                         | V                                                                                    | V                                                | V                                                                                 | V                                                | V                                                                                 |
| IK10+                        | -                                                                                    | -                                                | -                                                                                 | -                                                | -                                                                                 |
| NEMA 4X                      | -                                                                                    | -                                                | -                                                                                 | -                                                | -                                                                                 |

# Panoramic

28



MA9322-EHTVL



MA9311-EHTV



MA9322-EHTV-V2



MS9321-EHV-V2



MS9390-EHV-V2

| Type                         | V-series Multi-directional Panoramic AI Camera                                      |                                                                                 |                                                                                   | V-series Multi-sensor Panoramic AI Camera                                               |                                                                                    |
|------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Camera Features              |                                                                                     |                                                                                 |                                                                                   |                                                                                         |                                                                                    |
| Image Sensor                 | 1/2.7" Progressive CMOS                                                             | 1/2.8" Progressive CMOS                                                         | 1/2.8" Progressive CMOS                                                           | 1/2.8" Progressive CMOS                                                                 | 1/2.7" Progressive CMOS                                                            |
| Max. Resolution              | 2688x1920 (5MP) x 4                                                                 | 2560x1920 (5MP) x 2                                                             | 2560x1920 (5MP) x 4                                                               | 6912x2624 (18MP)                                                                        | 4864x1632 (8MP)                                                                    |
| Focal Length                 | f = 3.7 ~ 7.7mm                                                                     | f = 2.8 ~ 12mm                                                                  | f = 3.2 ~ 7.7mm                                                                   | f = 3.5 mm                                                                              | f = 2.8 mm                                                                         |
| Field of View                | 88.6° ~ 40.1° (H)<br>61.2° ~ 28.6° (V)<br>115.5° ~ 49.5° (D)                        | 95.4° ~ 28.7° (H)<br>68.8° ~ 21.5° (V)<br>129.6° ~ 35.9°(D)                     | 94° ~ 43° (H)<br>67° ~ 33° (V)<br>129° ~ 55° (D)                                  | 180° (H)<br>62.5° (V)<br>180° (D)                                                       | 180° (H)<br>50° (V)<br>180° (D)                                                    |
| WDR                          | WDR Pro                                                                             | WDR Pro                                                                         | WDR Pro                                                                           | WDR Pro                                                                                 | WDR Pro                                                                            |
| IR Distance                  | 30m                                                                                 | 20m                                                                             | 30m                                                                               | 30m                                                                                     | 20m                                                                                |
| Minimum Illumination         | 0.035 lux @ F1.9 (Color)<br>0.005 lux @ F1.9 (B/W)<br>0 lux with IR illumination on | 0.05 lux @F1.6 (Color)<br>0.005 lux @F1.6 (B/W)<br>0 lux with IR illuminaton on | 0.07 lux @F1.85 (Color)<br>0.005 lux @F1.85 (B/W)<br>0 lux with IR illuminaton on | 0.055 lux @ F2.0 (Color)<br>0.005 lux @ F2.0 (B/W)<br>0 lux with IR illumination on     | 0.018 lux @ F1.2 (Color)<br>0.01 lux @ F1.2 (B/W)<br>0 lux with IR illumination on |
| Video/ Audio/ Network        |                                                                                     |                                                                                 |                                                                                   |                                                                                         |                                                                                    |
| Video Compression Codec      | H.265, H.264, MJPEG                                                                 | H.265, H.264, MJPEG                                                             | H.265, H.264, MJPEG                                                               | H.265, H.264, MJPEG                                                                     | H.265, H.264, MJPEG                                                                |
| Maximum Frame Rate           | 15 fps @ (2688x1920) x 4<br>30 fps @ (2560x1440) x 4                                | 30 fps @ (2560x1920) x 2                                                        | 30 fps @ (2560x1920) x 4                                                          | 30 fps @ 6912x2624 (Deep Learning VCA OFF)<br>20 fps @ 6912x2624 (Deep Learning VCA ON) | 30 fps @ 4864x1632                                                                 |
| Built-in Mic                 | V                                                                                   | V                                                                               | V                                                                                 | V                                                                                       | V                                                                                  |
| ONVIF                        | -                                                                                   | Profile G, S, T, M                                                              | Profile G, S, T, M                                                                | Profile G, S, T                                                                         | Profile G, S, T                                                                    |
| AI Analytics                 |                                                                                     |                                                                                 |                                                                                   |                                                                                         |                                                                                    |
| Smart VCA                    | -                                                                                   | V                                                                               | V                                                                                 | V                                                                                       | V                                                                                  |
| Object Detection (People)    | -                                                                                   | V                                                                               | V                                                                                 | V                                                                                       | V                                                                                  |
| Object Detection (Vehicle)   | -                                                                                   | V                                                                               | V                                                                                 | V                                                                                       | V                                                                                  |
| Attribute Extraction         | -                                                                                   | V                                                                               | V                                                                                 | V                                                                                       | V                                                                                  |
| Object Detection (Re-Search) | -                                                                                   | V                                                                               | V                                                                                 | V                                                                                       | V                                                                                  |
| General                      |                                                                                     |                                                                                 |                                                                                   |                                                                                         |                                                                                    |
| Power Consumption            | Max. 25W                                                                            | Max. 25.5 W                                                                     | Max. 25.5 W                                                                       | Max. 18.81 W<br>AC 24V: Max. 26.4 W                                                     | Max. 20 W/13.5W (IR on/off)                                                        |
| Operating Temperature        | -40 °C ~ 50°C                                                                       | -40 °C ~ 55°C                                                                   | -40 °C ~ 55°C                                                                     | -40 °C ~ 55°C                                                                           | -40 °C ~ 55°C                                                                      |
| Certifications               |                                                                                     |                                                                                 |                                                                                   |                                                                                         |                                                                                    |
| IP66                         | V                                                                                   | V                                                                               | V                                                                                 | V                                                                                       | V                                                                                  |
| IP67                         | -                                                                                   | -                                                                               | -                                                                                 | -                                                                                       | -                                                                                  |
| IK10                         | V                                                                                   | V                                                                               | V                                                                                 | V                                                                                       | V                                                                                  |
| IK10+                        | -                                                                                   | -                                                                               | -                                                                                 | -                                                                                       | -                                                                                  |
| NEMA 4X                      | -                                                                                   | -                                                                               | V                                                                                 | -                                                                                       | -                                                                                  |

# Pan-Tilt-Zoom



SD9161-H-v2



SD9368-EHL



SD9384-EHL



SD9394-EHL

| Type                         | V-series AI PTZ Camera                                      |                                                                                                       |                                                                                                        |                                                                                                                                  |
|------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Camera Features              |                                                             |                                                                                                       |                                                                                                        |                                                                                                                                  |
| Image Sensor                 | 1/2.8" Progressive CMOS                                     | 1/2.8" Progressive CMOS                                                                               | 1/2.8" Progressive CMOS                                                                                | 1/1.8" Progressive CMOS                                                                                                          |
| Max. Resolution              | 1920x1080 (2MP)                                             | 1920x1080 (2MP)                                                                                       | 2560x1920 (5MP)                                                                                        | 3840x2160 (8M)                                                                                                                   |
| Focal Length                 | 5.1~51mm (10x zoom)                                         | 4.25~170mm (40x zoom)                                                                                 | 4.94~148.24mm (30x zoom)                                                                               | 6.5~212mm (32x zoom)                                                                                                             |
| Field of View                | 55.2° ~ 7.1° (H)<br>31.8° ~ 4.1° (V)<br>62.4° ~ 8.1° (D)    | 65.7° ~ 1.9° (H)<br>39.4° ~ 1.1° (V)<br>73.0° ~2.1° (D)                                               | 54.1° ~ 1.9° (H)<br>41.2° ~ 1.4° (V)<br>65.7° ~2.4° (D)                                                | 63.5° ~ 2.0° (H)<br>37.4° ~ 1.1° (V)<br>70.7° ~2.3° (D)                                                                          |
| WDR                          | WDR Pro                                                     | WDR Pro                                                                                               | WDR Pro                                                                                                | WDR Pro                                                                                                                          |
| IR Distance                  | NA                                                          | 250m                                                                                                  | 200m                                                                                                   | 250m                                                                                                                             |
| Minimum Illumination         | 0.14 Lux @ F1.6 (Color)<br>0.005 Lux @ F1.6 (B/W)           | 0.04 Lux @ F1.6 (Color)<br>0.005 Lux @ F1.6 (B/W)<br>0 lux with IR illumination on                    | 0.03 lux @ F1.3 (Color)<br>0.005 lux @ F1.3 (B/W)<br>0 lux with IR illumination on                     | 0.02 lux @ F1.4 (Color)(30IRE)<br>0.06 lux @ F1.4 (Color)(50IRE)<br><0.005 lux lux @ F1.4 (B/W)<br>0 lux with IR illumination on |
| Video/ Audio/ Network        |                                                             |                                                                                                       |                                                                                                        |                                                                                                                                  |
| Video Compression Codec      | H265, H264, MJPEG                                           | H265, H264, MJPEG                                                                                     | H265, H264, MJPEG                                                                                      | H265, H264, MJPEG                                                                                                                |
| Maximum Frame Rate           | 30 fps @ 1920x1080 (WDR on)<br>60 fps @ 1920x1080 (WDR off) | 30 fps @ 1920x1080 (WDR on)<br>60 fps @ 1920x1080 (WDR off)                                           | 30 fps @ 2560x1920 (WDR Pro on)<br>30 fps @ 2560x1440 (WDR Pro on)<br>60 fps @ 1920x1080 (WDR Pro off) | 30 fps @ 3840x2160 (WDR on)                                                                                                      |
| Built-in Mic                 | -                                                           | -                                                                                                     | -                                                                                                      | -                                                                                                                                |
| ONVIF                        | Profile G, S, T                                             | Profile G, S, T                                                                                       | Profile G, S, T                                                                                        | Profile G, S, T                                                                                                                  |
| AI Analytics                 |                                                             |                                                                                                       |                                                                                                        |                                                                                                                                  |
| Smart VCA                    | -                                                           | -                                                                                                     | -                                                                                                      | -                                                                                                                                |
| Object Detection (People)    | V                                                           | V                                                                                                     | V                                                                                                      | V                                                                                                                                |
| Object Detection (Vehicle)   | V                                                           | V                                                                                                     | V                                                                                                      | V                                                                                                                                |
| Attribute Extraction         | V                                                           | V                                                                                                     | V                                                                                                      | V                                                                                                                                |
| Object Detection (Re-Search) | V                                                           | V                                                                                                     | V                                                                                                      | V                                                                                                                                |
| General                      |                                                             |                                                                                                       |                                                                                                        |                                                                                                                                  |
| Power Consumption            | PoE: Max. 17W<br>AC/DC 24V: Max. 17W                        | PoE: Max. 51W/26W (IR on/off)<br>DC 48V: Max. 51W/26W (IR on/off)<br>AC 24V: Max. 51W/26W (IR on/off) | PoE: Max. 51W/26W (IR on/off)<br>DC 48V: Max. 51W/26W (IR on/off)<br>AC 24V: Max. 51W/26W (IR on/off)  | PoE: Max. 51W/26W (IR on/off)<br>DC 48V: Max. 51W/26W (IR on/off)<br>AC 24V: Max. 51W/26W (IR on/off)                            |
| Operating Temperature        | -10 °C ~ 55°C                                               | -40 °C ~ 60°C                                                                                         | -40 °C ~ 60°C                                                                                          | -40 °C ~ 55°C                                                                                                                    |
| Certifications               |                                                             |                                                                                                       |                                                                                                        |                                                                                                                                  |
| IP66                         | -                                                           | V                                                                                                     | V                                                                                                      | V                                                                                                                                |
| IP67                         | -                                                           | V                                                                                                     | V                                                                                                      | V                                                                                                                                |
| IK10                         | -                                                           | V                                                                                                     | V                                                                                                      | V                                                                                                                                |
| IK10+                        | -                                                           | -                                                                                                     | -                                                                                                      | -                                                                                                                                |
| NEMA 4X                      | -                                                           | -                                                                                                     | -                                                                                                      | -                                                                                                                                |



Model Name

IP9165-HT-V2 (3.9-10 mm)

IP9181-HT-V2 (2.8-8.5 mm)

IP9191-HT-V2 (3.9-10 mm)

| Type                         | V-series AI Box Camera                                          |                                                             |                                                                     |
|------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------------------|
| Camera Features              |                                                                 |                                                             |                                                                     |
| Image Sensor                 | 1/2" Progressive CMOS                                           | 1/2" Progressive CMOS                                       | 1/1.8" Progressive CMOS                                             |
| Max. Resolution              | 1920x1080                                                       | 2560 x 1920 (4:3)<br>2880 x 1632 (16:9)                     | 3840 x 2160 (16:9)<br>1920x1080p(16:9)                              |
| Focal Length                 | f= 3.9~10mm                                                     | f= 2.8~8.5mm                                                | f= 3.9~10mm                                                         |
| Field of View                | 109.7° ~ 42.7° (H)<br>58.5° ~ 23.9° (V)<br>129.9° ~ 49° (D)     | 106.8°~36.4° (H)<br>77.4°~27.3° (V)<br>143.1°~45.6° (D)     | 118.7°~45.6° (H)<br>62.9°~25.6° (V)<br>141.9°~52.4° (D)             |
| WDR                          | WDR Pro II                                                      | WDR Pro                                                     | WDR Pro                                                             |
| IR Distance                  | -                                                               | -                                                           | -                                                                   |
| Minimum Illumination         | 0.01 lux @ F.15 (Color)<br>0.005 lux @ F1.5 (B/W)               | 0.01 lux @ F.15 (Color)<br>0.005 lux @ F1.5 (B/W)           | 0.01 lux @ F1.2 (Color)<br>0.005 lux @ F1.2 (B/W)                   |
| Video/ Audio/ Network        |                                                                 |                                                             |                                                                     |
| Video Compression Codec      | H.265,H.264, MJPEG                                              | H.265,H.264, MJPEG                                          | H.265,H.264, MJPEG                                                  |
| Maximum Frame Rate           | 60 fps @ 1920x1080 (WDR Pro)<br>30 fps @ 1920x1080 (WDR Pro II) | 2560 x 1920 @ 30fps (WDRon)<br>2880 x 1632 @ 30fps (WDR on) | 30 fps @ 3840x2160 (WDR Pro on)<br>60 fps @ 1920x1080 (WDR Pro off) |
| Built-in Mic                 | -                                                               | -                                                           | -                                                                   |
| ONVIF                        | Profile G, S, T                                                 | Profile G, S, T                                             | Profile G, S, T                                                     |
| AI Analytics                 |                                                                 |                                                             |                                                                     |
| Smart VCA                    | V                                                               | V                                                           | V                                                                   |
| Object Detection (People)    | V                                                               | V                                                           | V                                                                   |
| Object Detection (Vehicle)   | V                                                               | V                                                           | V                                                                   |
| Attribute Extraction         | V                                                               | V                                                           | V                                                                   |
| Object Detection (Re-Search) | V                                                               | V                                                           | V                                                                   |
| General                      |                                                                 |                                                             |                                                                     |
| Power Consumption            | DC 12V: Max. 8.88 W<br>AC 24V: Max. 17 W<br>PoE: Max. 10 W      | DC 12V: Max. 8.88 W<br>AC 24V: Max. 17 W<br>PoE: Max. 10 W  | DC 12V: Max. 8.88 W<br>AC 24V: Max. 17 W<br>PoE: Max. 10 W          |
| Operating Temperature        | -10 °C ~ 60°C                                                   | -10 °C ~ 60°C                                               | -10 °C ~ 60°C                                                       |
| Certifications               |                                                                 |                                                             |                                                                     |
| IP66                         | -                                                               | -                                                           | -                                                                   |
| IP67                         | -                                                               | -                                                           | -                                                                   |
| IK10                         | -                                                               | -                                                           | -                                                                   |
| IK10+                        | -                                                               | -                                                           | -                                                                   |
| NEMA 4X                      | -                                                               | -                                                           | -                                                                   |



# Thermal



TB9332-E (9 mm)



TB9332-E (15 mm)



TB9332-E (35 mm)



TB9332-E (50 mm)

| Type                           | S-series Thermal Camera                                   |                                                           |                                                           |                                                           |
|--------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|
| Camera Features                |                                                           |                                                           |                                                           |                                                           |
| Image Sensor                   | Uncooled VOx Micro bolometer                              | Uncooled VOx Micro bolometer                              | Uncooled VOx Micro bolometer                              | Uncooled VOx Micro bolometer                              |
| Max. Resolution                | Effective pixels: 640x512<br>Image scale up to: 1280x1024 | Effective pixels: 640x512<br>Image scale up to: 1280x1024 | Effective pixels: 640x512<br>Image scale up to: 1280x1024 | Effective pixels: 640x512<br>Image scale up to: 1280x1024 |
| Focal Length                   | f = 9 mm                                                  | f = 15 mm                                                 | f = 35 mm                                                 | f = 50 mm                                                 |
| Field of View                  | 48° (H)<br>38° (V)                                        | 32° (H)<br>26° (V)                                        | 12° (H)<br>10° (V)                                        | 8° (H)<br>7° (V)                                          |
| IR Distance                    | -                                                         | -                                                         | -                                                         | -                                                         |
| Video/ Audio/ Network          |                                                           |                                                           |                                                           |                                                           |
| Video Compression Codec        | H.265, H.264                                              | H.265, H.264                                              | H.265, H.264                                              | H.265, H.264                                              |
| Maximum Frame Rate             | 25 fps @ 1280x1024                                        | 25 fps @ 1280x1024                                        | 25 fps @ 1280x1024                                        | 25 fps @ 1280x1024                                        |
| Built-in Mic                   | -                                                         | -                                                         | -                                                         | -                                                         |
| ONVIF                          | Profile G, S, T                                           | Profile G, S, T                                           | Profile G, S, T                                           | Profile G, S, T                                           |
| AI Analytics                   |                                                           |                                                           |                                                           |                                                           |
| Temperature measurement alarms | V                                                         | V                                                         | V                                                         | V                                                         |
| Fire spot detection            | V                                                         | V                                                         | V                                                         | V                                                         |
| Smoking detection              | V                                                         | V                                                         | V                                                         | V                                                         |
| Smoke & flame detection        | -                                                         | -                                                         | -                                                         | -                                                         |
| VCA                            | V                                                         | V                                                         | V                                                         | V                                                         |
| General                        |                                                           |                                                           |                                                           |                                                           |
| Power Consumption              | Max. 5W                                                   | Max. 5W                                                   | Max. 5W                                                   | Max. 5W                                                   |
| Operating Temperature          | -40 °C ~ 60°C                                             | -40 °C ~ 60°C                                             | -40 °C ~ 60°C                                             | -40 °C ~ 60°C                                             |
| Certifications                 |                                                           |                                                           |                                                           |                                                           |
| IP66                           | V                                                         | V                                                         | V                                                         | V                                                         |
| IP67                           | -                                                         | -                                                         | -                                                         | -                                                         |
| IK10                           | -                                                         | -                                                         | -                                                         | -                                                         |
| IK10+                          | -                                                         | -                                                         | -                                                         | -                                                         |
| NEMA 4X                        | -                                                         | -                                                         | -                                                         | -                                                         |

# Thermal

32



TB9333-E (3.5 mm)



TB9333-E (7 mm)



TT9333-E (3.5 mm)



TT9333-E (7 mm)

| Type                           | S-series Thermal Camera                                                                             |                                                                                                     |                                                                                                     |                                                                                                     |
|--------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Camera Features                |                                                                                                     |                                                                                                     |                                                                                                     |                                                                                                     |
| Image Sensor                   | Dual sensor:<br>Uncooled VOx Micro bolometer<br>1/2.7" Progressive CMOS                             | Dual sensor:<br>Uncooled VOx Micro bolometer<br>1/2.7" Progressive CMOS                             | Dual sensor:<br>Uncooled VOx Micro bolometer<br>1/2.7" Progressive CMOS                             | Dual sensor:<br>Uncooled VOx Micro bolometer<br>1/2.7" Progressive CMOS                             |
| Max. Resolution                | Thermal lens:<br>Effective pixels: 256x192<br>Image scale up to: 704x576<br>Optical lens: 2560x1440 | Thermal lens:<br>Effective pixels: 256x192<br>Image scale up to: 704x576<br>Optical lens: 2560x1440 | Thermal lens:<br>Effective pixels: 256x192<br>Image scale up to: 704x576<br>Optical lens: 2560x1440 | Thermal lens:<br>Effective pixels: 256x192<br>Image scale up to: 704x576<br>Optical lens: 2560x1440 |
| Focal Length                   | Thermal lens: f = 3.5 mm<br>Optical lens: f = 4 mm                                                  | Thermal lens: f = 7 mm<br>optical lens: f = 8 mm                                                    | Thermal lens: f = 3.5 mm<br>optical lens: f = 4 mm                                                  | Thermal lens: f = 7 mm<br>optical lens: f = 8 mm                                                    |
| Field of View                  | Thermal lens(3.5mm)<br>48° (H)<br>36° (V)<br>Optical lens (4mm)<br>92° (H)<br>46° (V)               | Thermal lens (7mm)<br>24° (H)<br>18° (V)<br>Optical lens (8mm)<br>40° (H)<br>20° (V)                | Thermal lens(3.5mm)<br>48° (H)<br>36° (V)<br>Optical lens (4mm)<br>92° (H)<br>46° (V)               | Thermal lens (7mm)<br>24° (H)<br>18° (V)<br>Optical lens (8mm)<br>40° (H)<br>20° (V)                |
| IR Distance                    | 35m                                                                                                 | 50m                                                                                                 | 35m                                                                                                 | 50m                                                                                                 |
| Video/ Audio/ Network          |                                                                                                     |                                                                                                     |                                                                                                     |                                                                                                     |
| Video Compression Codec        | H265, H264, MJPEG                                                                                   | H265, H264, MJPEG                                                                                   | H265, H264, MJPEG                                                                                   | H265, H264, MJPEG                                                                                   |
| Maximum Frame Rate             | Thermal: 25 fps @ 704x576<br>Optical: 25 fps @ 2560x1440                                            | Thermal: 25 fps @ 704x576<br>Optical: 25 fps @ 2560x1440                                            | Thermal: 25 fps @ 704x576<br>Optical: 25 fps @ 2560x1440                                            | Thermal: 25 fps @ 704x576<br>Optical: 25 fps @ 2560x1440                                            |
| Built-in Mic                   | -                                                                                                   | -                                                                                                   | -                                                                                                   | -                                                                                                   |
| ONVIF                          | Profile G, S, T                                                                                     | Profile G, S, T                                                                                     | Profile G, S, T                                                                                     | Profile G, S, T                                                                                     |
| AI Analytics                   |                                                                                                     |                                                                                                     |                                                                                                     |                                                                                                     |
| Temperature measurement alarms | V                                                                                                   | V                                                                                                   | V                                                                                                   | V                                                                                                   |
| Fire spot detection            | V                                                                                                   | V                                                                                                   | V                                                                                                   | V                                                                                                   |
| Smoking detection              | V                                                                                                   | V                                                                                                   | V                                                                                                   | V                                                                                                   |
| Smoke & flame detection        | V                                                                                                   | V                                                                                                   | V                                                                                                   | V                                                                                                   |
| VCA                            | V                                                                                                   | V                                                                                                   | V                                                                                                   | V                                                                                                   |
| General                        |                                                                                                     |                                                                                                     |                                                                                                     |                                                                                                     |
| Power Consumption              | Max.12W                                                                                             | Max.12W                                                                                             | Max.10W                                                                                             | Max.10W                                                                                             |
| Operating Temperature          | -40 °C ~ 60°C                                                                                       | -40 °C ~ 60°C                                                                                       | -40 °C ~ 60°C                                                                                       | -40 °C ~ 60°C                                                                                       |
| Certifications                 |                                                                                                     |                                                                                                     |                                                                                                     |                                                                                                     |
| IP66                           | V                                                                                                   | V                                                                                                   | V                                                                                                   | V                                                                                                   |
| IP67                           | -                                                                                                   | -                                                                                                   | -                                                                                                   | -                                                                                                   |
| IK10                           | -                                                                                                   | -                                                                                                   | -                                                                                                   | -                                                                                                   |
| IK10+                          | -                                                                                                   | -                                                                                                   | -                                                                                                   | -                                                                                                   |
| NEMA 4X                        | -                                                                                                   | -                                                                                                   | -                                                                                                   | -                                                                                                   |

# Facial Recognition



FD9387-FR-V3 (7-22 mm)



FD9387-FR-V2

| Type                                  | S-series Facial Recognition Camera                                                                     |                                                                                                                                                                         |
|---------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera Features                       |                                                                                                        |                                                                                                                                                                         |
| Image Sensor                          | 1/2.8" Progressive CMOS                                                                                | 1/2.8" Progressive CMOS                                                                                                                                                 |
| Max. Resolution                       | 2560x1920 (5MP)                                                                                        | 2560x1920 (5MP)                                                                                                                                                         |
| Focal Length                          | f= 7 ~ 22 mm                                                                                           | f= 2.7~ 13.5 mm                                                                                                                                                         |
| Field of View                         | 39.3° ~ 15.5° (H)<br>28.8° ~ 11.6° (V)<br>50.8° ~ 19.4° (D)                                            | 39.3° ~ 15.4° (H)<br>70° ~ 23° (V)<br>128° ~ 38° (D)                                                                                                                    |
| WDR                                   | WDR Pro                                                                                                | WDR Pro                                                                                                                                                                 |
| IR Distance                           | 50m                                                                                                    | 50m                                                                                                                                                                     |
| Minimum Illumination                  | 0.035 lux @ F1.7 (Color)<br><0.005 lux @ F1.7 (B/W)<br>0 lux with IR illumination on                   | 0.075 lux @ F1.4 (Color)<br><0.01 lux @ F1.4 (B/W)<br>0 lux with IR illumination on                                                                                     |
| Video/ Audio/ Network                 |                                                                                                        |                                                                                                                                                                         |
| Video Compression Codec               | H.265, H.264, MJPEG                                                                                    | H.265, H.264, MJPEG                                                                                                                                                     |
| Maximum Frame Rate                    | 30 fps @ 2560x1920 (WDR Pro on)<br>30 fps @ 2560x1440 (WDR Pro on)<br>60 fps @ 1920x1080 (WDR Pro off) | 30 fps @ 2560x1920 (WDR Pro on)<br>30 fps @ 1600x1200 (WDR Pro on)                                                                                                      |
| Built-in Mic                          | V                                                                                                      | -                                                                                                                                                                       |
| ONVIF                                 | Profile G, S, T                                                                                        | Profile G, S, T                                                                                                                                                         |
| Facial Recognition                    |                                                                                                        |                                                                                                                                                                         |
| Performance                           | Up to 99% accuracy ; supports recognition with mask; gender and age estimation; privacy mode.          | Up to 99% accuracy ; supports recognition with mask; gender and age estimation; privacy mode.                                                                           |
| Numbers of face captures              | 30 faces per second                                                                                    | 30 faces per second                                                                                                                                                     |
| Profile database                      | Up to 10,000 Profiles                                                                                  | Up to 10,000 Profiles                                                                                                                                                   |
| Automatic create Profiles or stranger | Yes                                                                                                    | Yes                                                                                                                                                                     |
| Recognition Range                     | 10M                                                                                                    | 5M                                                                                                                                                                      |
| Integration                           | ONVIF Profile S event push; HTTP/ HTTPS Push in JSON format.                                           | ONVIF Profile S event push; HTTP/ HTTPS Push in JSON format.                                                                                                            |
| General                               |                                                                                                        |                                                                                                                                                                         |
| Power Consumption                     | 12.95W                                                                                                 | DC12V: Max 23/ 18W (IR ON/ OFF) Max Current:1.92A<br>PoE Max: 22.5W/ 18W (IR ON/OFF) 42.5V Max Current: 0.53A~0.4A<br>AC24V Max: 21W/16W (IR ON/ OFF) Max Current: 1.4A |
| Operating Temperature                 | -40 °C ~ 60°C                                                                                          | -30 °C ~ 60°C                                                                                                                                                           |
| Certifications                        |                                                                                                        |                                                                                                                                                                         |
| IP66                                  | V                                                                                                      | V                                                                                                                                                                       |
| IP67                                  | -                                                                                                      | -                                                                                                                                                                       |
| IK10                                  | V                                                                                                      | V                                                                                                                                                                       |
| IK10+                                 | V                                                                                                      | -                                                                                                                                                                       |
| NEMA 4X                               | -                                                                                                      | -                                                                                                                                                                       |

# Counting



Model Name SC9133-RTL

| Type                         | S-series Counting Camera                                            |
|------------------------------|---------------------------------------------------------------------|
| <b>Camera Features</b>       |                                                                     |
| Image Sensor                 | 1/2.8"Progressive CMOS                                              |
| Max. Resolution              | 1792 x 1792 (3MP)                                                   |
| Focal Length                 | f = 1.47mm                                                          |
| Field of View                | 140° (H)<br>140° (V)<br>140° (D)                                    |
| WDR                          | WDR Pro                                                             |
| Minimum Illumination         | 0 lux with illumination on                                          |
| <b>Video/ Audio/ Network</b> |                                                                     |
| Video Compression Codec      | H.265, H.264, MJPEG                                                 |
| Maximum Frame Rate           | 1792 x 1792 @ 30 f ps<br>896 x 896 @ 30 f ps<br>448 x 448 @ 30 f ps |
| Built-in Mic                 | V                                                                   |
| <b>Analytics</b>             |                                                                     |
| Smart VCA                    | -                                                                   |
| Object Detection (People)    | -                                                                   |
| Object Detection (Vehicle)   | -                                                                   |
| Attribute Extraction         | -                                                                   |
| Object Detection (Re-Search) | -                                                                   |
| <b>General</b>               |                                                                     |
| Power Consumption            | PoE: Max. 12.5W<br>DC: Max. 13.3W                                   |
| Operating Temperature        | -30 °C ~ 60°C                                                       |
| <b>General</b>               |                                                                     |
| IP66                         | -                                                                   |
| IP67                         | -                                                                   |
| IK10                         | -                                                                   |
| IK10+                        | -                                                                   |
| NEMA 4X                      | -                                                                   |

# Modular



Model Name VC9101

| Type                         | S-series Modular Camera                     |
|------------------------------|---------------------------------------------|
| <b>Camera Features</b>       |                                             |
| Max. Resolution              | Depends on CU version; 2688x1520/ 1920x1920 |
| WDR                          | WDR Pro                                     |
| <b>Video/ Audio/ Network</b> |                                             |
| Video Compression Codec      | H.265, H.264, MJPEG                         |
| Maximum Frame Rate           | Depends on CU sensor                        |
| Built-in Mic                 | -                                           |
| ONVIF                        | Profile G, S, T                             |
| <b>Analytics</b>             |                                             |
| Smart VCA                    | V                                           |
| Object Detection (People)    | V                                           |
| Object Detection (Vehicle)   | V                                           |
| Attribute Extraction         | V                                           |
| Object Detection (Re-Search) | V                                           |
| <b>General</b>               |                                             |
| Power Consumption            | < 8.5W                                      |
| Operating Temperature        | -10 °C ~ 50°C                               |
| <b>General</b>               |                                             |
| IP66                         | -                                           |
| IP67                         | -                                           |
| IK10                         | -                                           |
| IK10+                        | -                                           |
| NEMA 4X                      | -                                           |

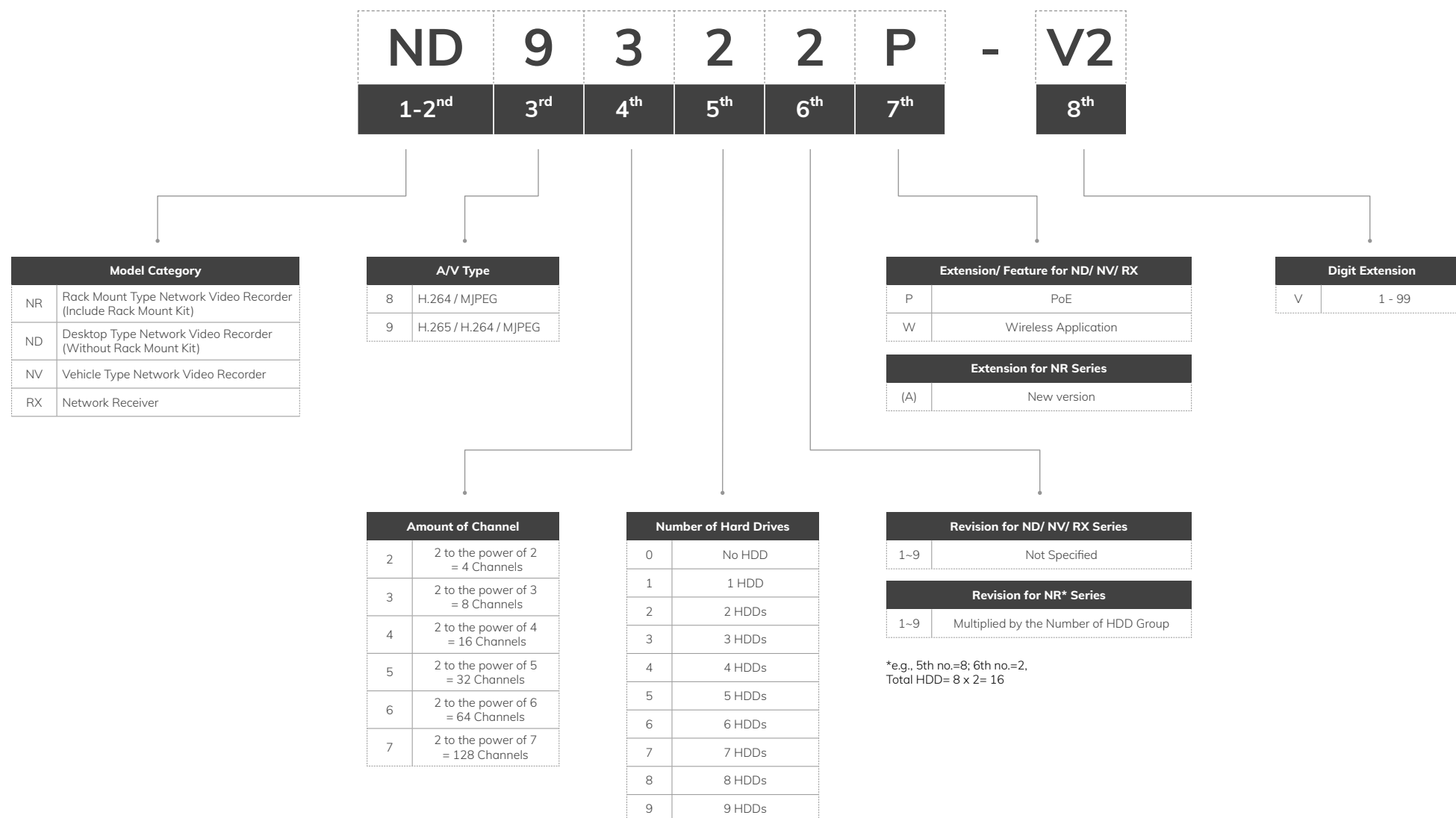


# Network Video Recorder

Embedded NVR & Recording Server



# Network Video Recorder Naming Rule





# Embedded NVR

Simple to Navigate but Versatile



## Cloud Ready with VORTEX

VORTEX Connect offers powerful cloud management for V-series Embedded NVR. Monitor and control your cameras from anywhere, anytime, ensuring constant access.



## CMS Ready with VAST Security Station

Grow easily by adding cameras as your business expands. Keep data safe by storing and managing it on-site, reducing internet risks.



## Core+ AI

VIVOTEK Core+ AI supporting Deep Search and Smart VCA, offering a faster and smarter user experience.



## Simplify Your Operations

- Multi-display
- Fisheye dewrap in local and web client
- Embedded PoE



## Secure Connection & Reliable Compliance

No more plugins, Chrome browser supported, NDAA compliant and have cyber protection via Trend Micro.

# Embedded NVR



ND9442P/ ND9542P



ND9326P/ ND9426P

| Model                                     | ND9442P/ ND9542P                                                                                                                                         |  | ND9326P/ ND9426P                                                                                                                    |  |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------|--|
| Type                                      | Embedded NVR                                                                                                                                             |  |                                                                                                                                     |  |
| Local Display                             |                                                                                                                                                          |  |                                                                                                                                     |  |
| Channels                                  | Up to 16/32 channels                                                                                                                                     |  | Up to 8/16 channels                                                                                                                 |  |
| Video Output                              | HDMI/VGA                                                                                                                                                 |  | HDMI/VGA                                                                                                                            |  |
| Display Resolution                        | 3840x2160/ 1920x1080/ 1280x720                                                                                                                           |  | 3840x2160/ 1920x1080/ 1280x720                                                                                                      |  |
| Fisheye Dewarp                            | Local: 1O,1P,1R,1O3R,1O8R, 1P3R<br>Web: 1O, 1R, 1P                                                                                                       |  | Local: 1O,1P,1R,1O3R,1O8R, 1P3R<br>Web: 1O, 1R, 1P                                                                                  |  |
| Video/ Record                             |                                                                                                                                                          |  |                                                                                                                                     |  |
| Video Compression                         | H.265/H.264/MJPEG                                                                                                                                        |  | H.265/H.264/MJPEG                                                                                                                   |  |
| Max. Decoding Capability                  | H.265/H.264: 3840x2160 @ 90 fps                                                                                                                          |  | H.265/H.264: 3840x2160 @ 120 fps                                                                                                    |  |
| Decoding Resolution (Local)               | Up to 7680x2560                                                                                                                                          |  | Up to 7680x2560                                                                                                                     |  |
| Recording Throughput                      | 192 Mbps                                                                                                                                                 |  | 192 Mbps                                                                                                                            |  |
| Storage/ General                          |                                                                                                                                                          |  |                                                                                                                                     |  |
| Hard Disk                                 | 3.5" SATA HDD*4                                                                                                                                          |  | 3.5" SATA HDD*2                                                                                                                     |  |
| RAID                                      | RAID 0, 1, 5                                                                                                                                             |  | RAID 0, 1                                                                                                                           |  |
| PoE                                       | 16x 802.3at/af Compliant PoE Ports<br>(Total Max. 200 W)                                                                                                 |  | 8/16x 802.3at/af Compliant PoE Ports<br>(Total Max. 120 W/200 W)                                                                    |  |
| Connectors                                | Ethernet 10/100/1000 RJ45 x2<br>Alarm In x16, Alarm Out x8<br>USB 2.0 x2, USB 3.0 x1<br>Audio Output x1<br>Audio Input x1 (Reserved)<br>RS485 (Reserved) |  | Ethernet 10/100/1000 RJ45 x2<br>Alarm In x4, Alarm Out x1<br>USB 2.0 x2, USB 3.0 x1<br>Audio Output x1<br>Audio Input x1 (Reserved) |  |
| Power Input                               | AC 100 ~ 240V/ 50 ~ 60Hz                                                                                                                                 |  | AC 100 ~ 240V/ 50 ~ 60Hz                                                                                                            |  |
| Power Consumption                         | Max. 300 W                                                                                                                                               |  | Max. 190 W/ 270W                                                                                                                    |  |
| Installation, Management, and Maintenance | VSS, VAST 2, Shepherd, VORTEX, iViewer (iOS/Android)                                                                                                     |  | VSS, VAST 2, Shepherd, VORTEX, iViewer (iOS/Android)                                                                                |  |
| Dimensions                                | 432 x 421 x 66 mm                                                                                                                                        |  | 365 x 315 x 44 mm                                                                                                                   |  |
| Advanced Features                         |                                                                                                                                                          |  |                                                                                                                                     |  |
| Smart VCA Event Search                    | V                                                                                                                                                        |  | V                                                                                                                                   |  |
| Deep Search                               | V                                                                                                                                                        |  | V                                                                                                                                   |  |
| Cybersecurity Management                  | V                                                                                                                                                        |  | V                                                                                                                                   |  |
| Trend Micro IoT Security                  | V                                                                                                                                                        |  | V                                                                                                                                   |  |
| NDAA Compliance Product                   | V                                                                                                                                                        |  | V                                                                                                                                   |  |



# Recording Server

Super and Outstanding Performance Video Recorder for Large Scale Systems



## Hot-Swappable HDD

Supports hot-swappable HDD bays with RAID 0/1/5/6/10/50/60, and substation failover failover for reliable and secure recording data.



## Deep Search with VSS Pro

With VIVOTEK VAST Security Station Professional edition to support Deep Search, quickly locating people and vehicles within recorded footage using attributes, trajectories, and even similar appearances.



## Built-in License with VSS Pro

Built-in license with VIVOTEK VAST Security Station Professional edition. Ready-to-go functionality with essential features, including 3rd Party Integration, Matrix and failover for substation.



## Reliable Surveillance with Failover

Experience a secure and stable monitoring atmosphere with the Supreme series, featuring failover for continuous operation.

# Recording Server



NR9682-V3



NR9581-V3

| Model                                     | NR9682-V3                                                                                                                                                    |  | NR9581-V3                                                                                                                                                    |  |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Type                                      | Recording Server                                                                                                                                             |  |                                                                                                                                                              |  |
| Display                                   |                                                                                                                                                              |  |                                                                                                                                                              |  |
| Channels                                  | 64 channels (expandable to 192-CH)                                                                                                                           |  | 32 channels (expandable to 128-CH)                                                                                                                           |  |
| Video Output                              | HDMI/ DP/ DVI/ VGA                                                                                                                                           |  | HDMI/ DP/ DVI/ VGA                                                                                                                                           |  |
| Display Resolution                        | HDMI: 4096x2160/ DP: 7680x4320<br>DVI: 1920x1200/ VGA: 1920x1200                                                                                             |  | HDMI: 4096x2160/ DP: 7680x4320<br>DVI: 1920x1200/ VGA: 1920x1200                                                                                             |  |
| Fisheye Dewarp                            | 10, 1P, 1R, 103R, 4R, 2P, 4R Pro, 108R                                                                                                                       |  | 10, 1P, 1R, 103R, 4R, 2P, 4R Pro, 108R                                                                                                                       |  |
| Video/ Record                             |                                                                                                                                                              |  |                                                                                                                                                              |  |
| Video Compression                         | H.265/H.264/MJPEG/MPEG4                                                                                                                                      |  | H.265/H.264/MJPEG/MPEG4                                                                                                                                      |  |
| Max. Decoding Capability                  | H.264: 1920x1080 @ 360 fps<br>H.265: 1920x1080 @ 180 fps                                                                                                     |  | H.264: 1920x1080 @ 360 fps<br>H.265: 1920x1080 @ 180 fps                                                                                                     |  |
| Decoding Resolution (Local)               | Up to 7680x2560                                                                                                                                              |  | Up to 7680x2560                                                                                                                                              |  |
| Recording Throughput                      | 512 Mbps                                                                                                                                                     |  | 512 Mbps                                                                                                                                                     |  |
| Storage/ General                          |                                                                                                                                                              |  |                                                                                                                                                              |  |
| Hard Disk                                 | 3.5" SATA HDD*16 (Hot Swappable)                                                                                                                             |  | 3.5" SATA HDD*8 (Hot Swappable)                                                                                                                              |  |
| RAID                                      | RAID 0, 1, 5, 6, 10, 50, 60                                                                                                                                  |  | RAID 0, 1, 5, 6, 10, 50, 60                                                                                                                                  |  |
| Connectors                                | 2.5 Gigabit Ethernet (RJ-45) x2<br>USB 2.0 x2, USB 3.2 x4<br>Microphone Audio Jack Input x1<br>3.5 Line Input Audio Jack x1<br>3.5 Line Output Audio Jack x1 |  | 2.5 Gigabit Ethernet (RJ-45) x2<br>USB 2.0 x4, USB 3.2 x4<br>Microphone Audio Jack Input x1<br>3.5 Line Input Audio Jack x1<br>3.5 Line Output Audio Jack x1 |  |
| Power Input                               | Redundant Power AC 100 ~ 240V                                                                                                                                |  | Redundant Power AC 100 ~ 240V                                                                                                                                |  |
| Power Consumption                         | Max. 920 W                                                                                                                                                   |  | Max. 550 W                                                                                                                                                   |  |
| Installation, Management, and Maintenance | VSS Pro, Shepherd                                                                                                                                            |  | VSS Pro, Shepherd                                                                                                                                            |  |
| Dimensions                                | 437 x 647 x 132 mm                                                                                                                                           |  | 437 x 647 x 89 mm                                                                                                                                            |  |
| Advanced Features                         |                                                                                                                                                              |  |                                                                                                                                                              |  |
| Cybersecurity Management                  | V                                                                                                                                                            |  | V                                                                                                                                                            |  |
| Data Magnet                               | V                                                                                                                                                            |  | V                                                                                                                                                            |  |
| Failover                                  | V                                                                                                                                                            |  | V                                                                                                                                                            |  |
| LPR Solution                              | V                                                                                                                                                            |  | V                                                                                                                                                            |  |
| Smart VCA Event                           | V                                                                                                                                                            |  | V                                                                                                                                                            |  |
| Smart Search II                           | V                                                                                                                                                            |  | V                                                                                                                                                            |  |
| Deep Search                               | V                                                                                                                                                            |  | V                                                                                                                                                            |  |
| NDAA Compliance Product                   | V                                                                                                                                                            |  | V                                                                                                                                                            |  |



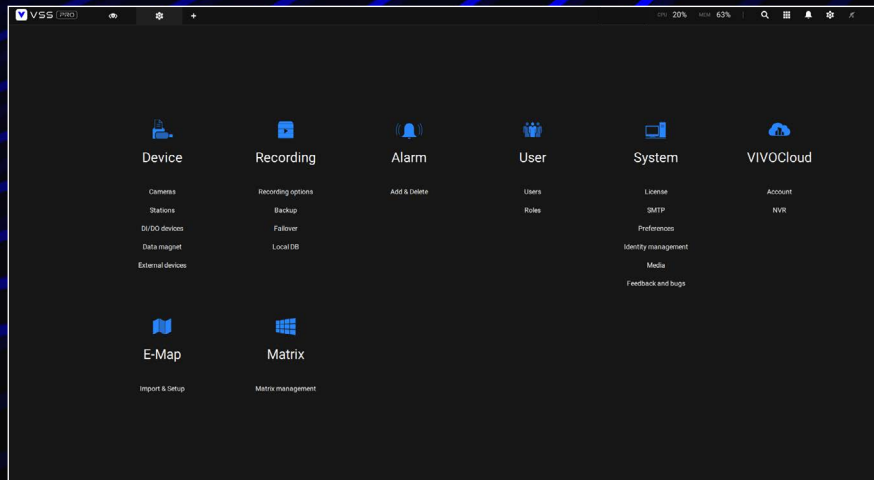
# VAST Security Station

VIVOTEK Video Management Software

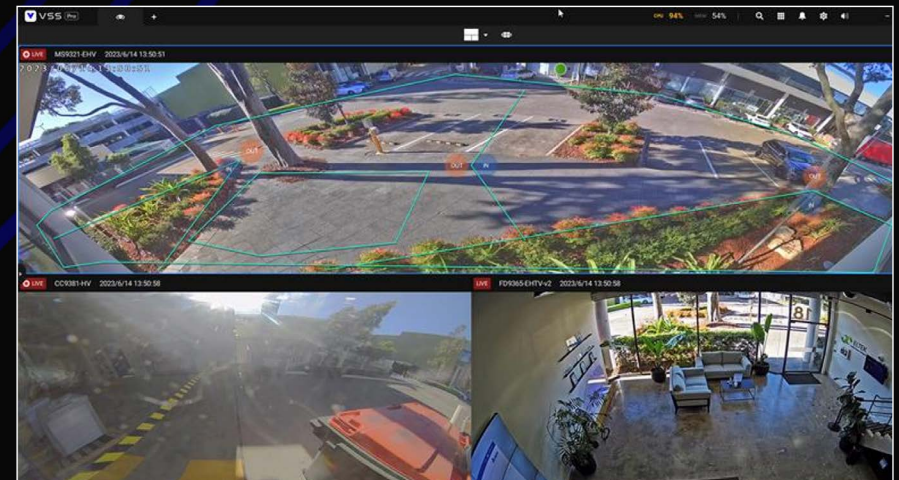
VAST Security Station (VSS) is a video management software with an intuitive, user-friendly interface designed to help customers efficiently set up and manage projects. Its centralized management supports easy scalability, from single shops to multi-site deployments, while seamlessly integrating with VIVOTEK's wide range of network devices, such as cameras, NVRs, PoE switches, and IP audio systems, to meet various surveillance needs.

## Ease of use

### Feature-rich through minimal installation

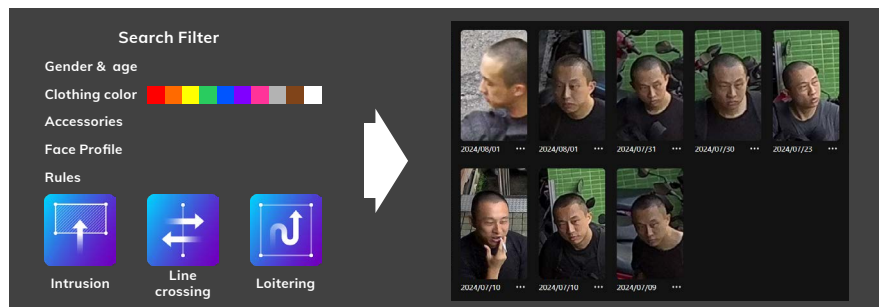


### Design with streamlined user interface



# Automate Your Operation

## Find footage in seconds with Deep Search

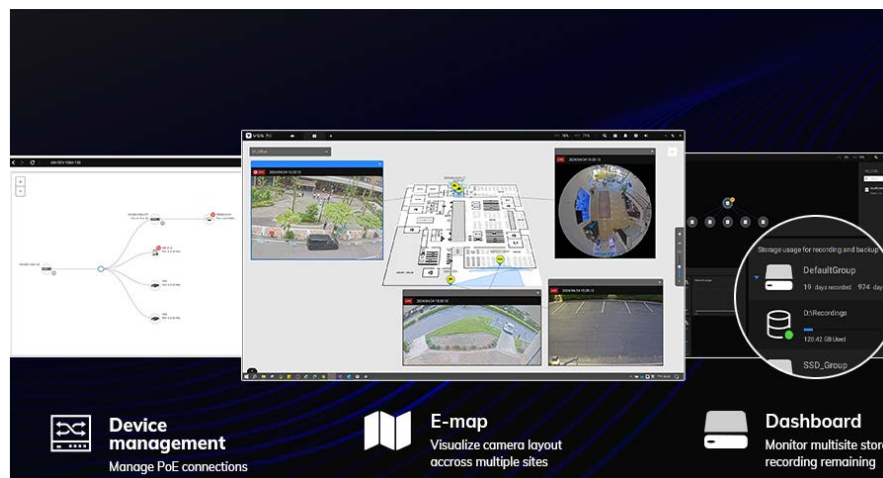


## Export evidence with ease



# Seamlessly Integrate with VIVOTEK Device

## Adaptable for expansion and centralized



## Optimal choice for VIVOTEK devices





# VAST Security Station



| Product Edition                          |                  | VSS Lite                                          | VSS Standard                                            | VSS Professional                                                                               |
|------------------------------------------|------------------|---------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Product Overview                         |                  | Free entry-level VMS for basic surveillance needs | Cost-effective solution for small and mid-size business | Designed for mid-size to large-scale projects requiring central management and 24/7 operations |
| Deployment                               |                  |                                                   |                                                         |                                                                                                |
| Maximum Number of Cameras Per Server     |                  | 32                                                | 256                                                     | 320                                                                                            |
| Maximum Number of Clients Per Server     |                  | 200                                               | 200                                                     | 200                                                                                            |
| Maximum Number of Substations Per System |                  | 0                                                 | 64<br>(ND/NV series NVR)                                | 700<br>(ND/NV series NVR, VSS Pro NR series NVR,<br>VSS Professional Station)                  |
| Maximum Number of Cameras Per System     |                  | 32                                                | 256                                                     | 22,400                                                                                         |
| Key Features                             |                  |                                                   |                                                         |                                                                                                |
| Live view                                |                  | V                                                 | V                                                       | V                                                                                              |
| Recording                                |                  | V                                                 | V                                                       | V                                                                                              |
| Playback                                 |                  | V                                                 | V                                                       | V                                                                                              |
| Backup                                   |                  | V                                                 | V                                                       | V                                                                                              |
| Event                                    |                  | V                                                 | V                                                       | V                                                                                              |
| Dashboard                                |                  | V                                                 | V                                                       | V                                                                                              |
| Alarms                                   |                  | -                                                 | V                                                       | V                                                                                              |
| E-map                                    |                  | -                                                 | V                                                       | V                                                                                              |
| Counting Report                          |                  | -                                                 | V                                                       | V                                                                                              |
| Video Wall (Matrix)                      |                  | -                                                 | -                                                       | V                                                                                              |
| Search                                   |                  |                                                   |                                                         |                                                                                                |
| Bookmark Search                          |                  | V                                                 | V                                                       | V                                                                                              |
| Event Search                             |                  | V                                                 | V                                                       | V                                                                                              |
| Alarm Search                             |                  | -                                                 | V                                                       | V                                                                                              |
| Smart Search                             |                  | -                                                 | V                                                       | V                                                                                              |
| Deep Search                              | Object Search    | -                                                 | V                                                       | V                                                                                              |
|                                          | Attribute Search | -                                                 | V                                                       | V                                                                                              |
|                                          | Scene Search     | -                                                 | V                                                       | V                                                                                              |
|                                          | Re-Search        | -                                                 | -                                                       | V                                                                                              |
|                                          | Case Vault       | -                                                 | -                                                       | V                                                                                              |



| Product Edition             |                  | VSS Lite                                          | VSS Standard                                            | VSS Professional                                                                               |
|-----------------------------|------------------|---------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Product Overview            |                  | Free entry-level VMS for basic surveillance needs | Cost-effective solution for small and mid-size business | Designed for mid-size to large-scale projects requiring central management and 24/7 operations |
| <b>User Management</b>      |                  |                                                   |                                                         |                                                                                                |
| User Role                   | Administrator    | V                                                 | V                                                       | V                                                                                              |
|                             | Customizable     | V                                                 | V                                                       | V                                                                                              |
|                             | User Pre-defined | -                                                 | -                                                       | V                                                                                              |
| <b>Video Encryption</b>     |                  |                                                   |                                                         |                                                                                                |
| Digital Watermark           |                  | V                                                 | V                                                       | V                                                                                              |
| Exported Video Encryption   |                  | V (AES-256 CTR)                                   |                                                         |                                                                                                |
| Recording Encryption        |                  | -                                                 | -                                                       | V (AES-256 CTR)                                                                                |
| <b>Export</b>               |                  |                                                   |                                                         |                                                                                                |
| Exported Video Mask         |                  | -                                                 | -                                                       | V                                                                                              |
| <b>Device Compatibility</b> |                  |                                                   |                                                         |                                                                                                |
| Camera                      |                  | VIVOTEK 9000 series                               |                                                         |                                                                                                |
| 3rd Party Video Source      |                  | -                                                 | ONVIF, RTSP                                             | ONVIF, RTSP                                                                                    |
| Substation                  |                  | -                                                 | VIVOTEK ND/NV 9000 series NVR                           | VIVOTEK ND/NV 9000 series NVR, VSS NR series NVR, VSS Professional Station                     |
| Joystick                    |                  | -                                                 | V                                                       | V                                                                                              |
| Network Audio Device        |                  | -                                                 | V                                                       | V                                                                                              |
| Wiegand Converter           |                  | -                                                 | V                                                       | V                                                                                              |
| I/O Box                     |                  | -                                                 | V                                                       | V                                                                                              |
| Access Control              |                  | -                                                 | V                                                       | V                                                                                              |
| Managed PoE Switch          |                  | -                                                 | VIVOTEK L2 series, VIVOTEK Lite Managed series          | VIVOTEK L2 series, VIVOTEK Lite Managed series                                                 |
| <b>Integration</b>          |                  |                                                   |                                                         |                                                                                                |
| Data Magnet                 |                  | -                                                 | V                                                       | V                                                                                              |
| TCP Message                 |                  | -                                                 | V                                                       | V                                                                                              |
| <b>Failover</b>             |                  |                                                   |                                                         |                                                                                                |
| CMS Failover                |                  | -                                                 | -                                                       | V                                                                                              |
| Substation Failover         |                  | -                                                 | -                                                       | V                                                                                              |



## Cloud Surveillance Platform

A hybrid cloud architecture and intuitive platform enable seamless integration, allowing teams of any skill level to deploy VORTEX across multi-site environments with ease.

## Why VORTEX Cloud ?

---

### Scalability and Flexibility

- Lower upfront costs
- No need to worry about infrastructure changes

### Accessibility

- Access anywhere, anytime, any device
- User-friendly Interface for Swift Adaptation
- Native Support for Mobile and Desktop Browser

### Quick Deployment & Maintenance-free

- Easily add with QR code
- Manage and configure devices in one platform
- OTA firmware upgrade
- Remote troubleshooting

### Cybersecurity and Data Privacy

- Data protection measures
- Role-based access control

### Open API & Integrations

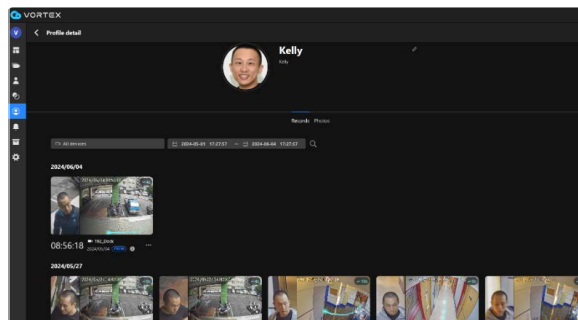
- RTSP supported
- Webhook supported
- Access control integration

### Easily Add with QR code

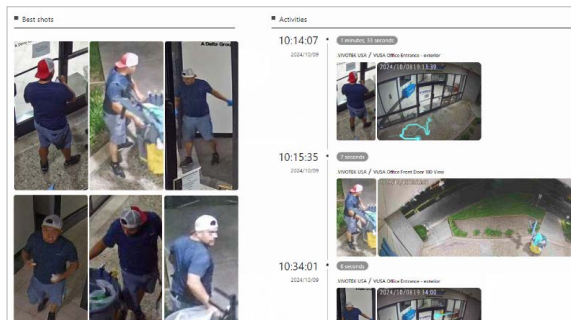
- Edge AI and deep search for quick investigation
- Human/ vehicle identification and path detection
- Real-time alerts for immediate actions

## Get More Added Value with VORTEX

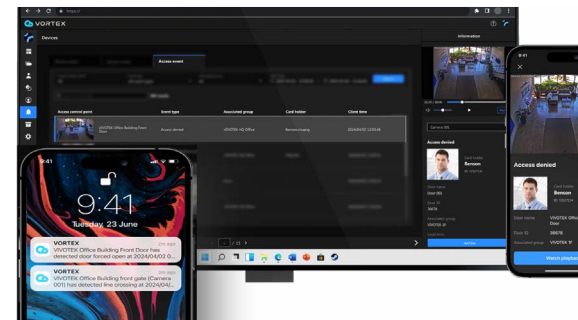
### Turn Hours Into Seconds with Deep Search



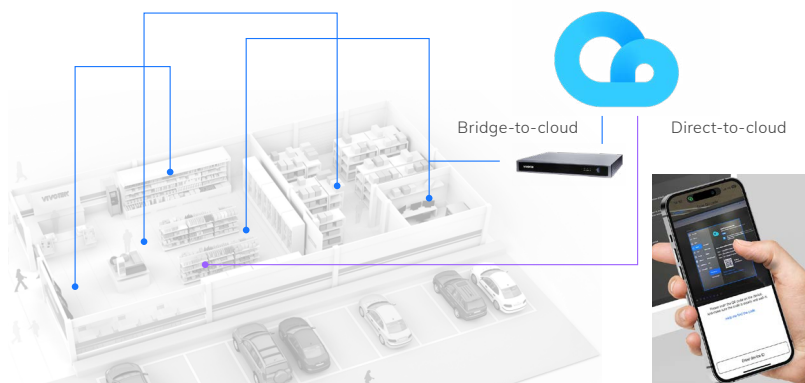
### Streamline Case Management with Case Vault



### Integration with Access Control



## Frictionless Transition To The Cloud



### Bridge Existing Cameras with Embedded NVR and VORTEX Connect

- No network camera replacement
- No impact on infrastructure
- ONVIF Profile S supported by V-series Embedded NVR
- Power delivery through NVR PoE ports, no network switch required
- Expandable and redundant recording with cloud

### Flexible Scaling with Direct-to-cloud VORTEX Cameras

- Scale with one camera as a unit, no NVR required
- Scan-and-connect with QR code; zero configuration
- Expandable and redundant recording with cloud



Explore more in  
VORTEX Brochure

# PoE Network Products

A full range of products designed for video surveillance systems, including power-surge prevention from lightning strikes, network management, multiple topology views of cameras, and more.



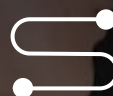
## Network & PoE Management

- L2 Network Function
- PoE on/off Control for Each Port
- Cable Diagnostic



## Industrial & Outdoor Ready

- Wide Temperature Support
- IP67 and IK10 Certified
- Built-In Surge Protection

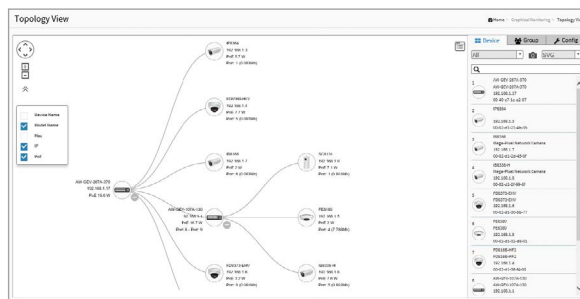


## Long Range PoE Extension

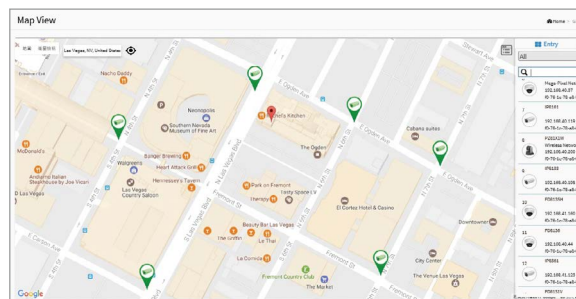
- 200~300m PoE Delivery
- Support Multiple Cameras with a Single Power Source
- Outdoor-Ready Housing



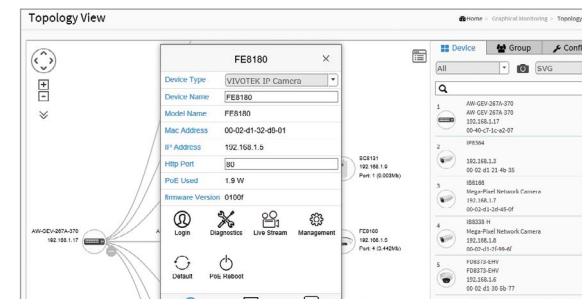
# Intuitively Managing IP Surveillance



Topology View



Map View



Device Management

## Commercial PoE



| Model                  | AW-GTS-287A                         |
|------------------------|-------------------------------------|
| Type                   | 10G L2+ Managed Switch              |
| Ethernet Port          | 20xGbE SFP + 4xGbE Combo            |
| Uplink Port            | 4x10G SFP                           |
| Console Port           | RJ45                                |
| Surveillance Feature   | Topology View/ Floor View/ Map View |
| DHCP Server            | V                                   |
| VLAN                   | 802.1Q Tag-based/ Port-based        |
| Spanning Tree Protocol | STP/ RSTP/ MSTP                     |
| SNMP (v1, v2c, v3)     | V                                   |

| Model                  | AW-GEV-108A-130                     | AW-GEV-288A-370                    |
|------------------------|-------------------------------------|------------------------------------|
| Type                   | VIVOCAM L2 Managed PoE Switch       |                                    |
| PoE port               | 2xGbE bt 90W PoE + 6xGbE 30W PoE    | 4xGbE bt 90W PoE + 20xGbE 30W PoE  |
| Uplink Port            | 2xGbE Combo                         | 4xGbE Combo                        |
| Console Port           | RJ45                                | RJ45                               |
| PoE Power Budget       | 130W                                | 370W                               |
| Surveillance Feature   | Topology View/ Floor View/ Map View | Topology View/ Floor View/Map View |
| Extended Mode          | 250M/10Mbps                         | 250M/ 10Mbps                       |
| Non-Stop PoE           | V                                   | V                                  |
| DHCP Server            | V                                   | V                                  |
| VLAN                   | 802.1Q Tag-based/ Port-based        | 802.1Q Tag-based/ Port-based       |
| Spanning Tree Protocol | STP/ RSTP/ MSTP                     | STP/RSTP/ MSTP                     |
| SNMP (v1, v2c, v3)     | V                                   | V                                  |

Commercial PoE



| Model                  | AW-GEL-065A-060              | AW-GEL-105A-110                  | AW-GEL-205A-260                   | AW-GEL-285A-380                   |
|------------------------|------------------------------|----------------------------------|-----------------------------------|-----------------------------------|
| Type                   | Lite Managed PoE Switch      |                                  |                                   |                                   |
| PoE port               | 4xGbE PoE                    | 2xGbE bt 90W PoE + 6xGbE 30W PoE | 4xGbE bt 90W PoE + 12xGbE 30W PoE | 4xGbE bt 90W PoE + 20xGbE 30W PoE |
| Uplink Port            | 2xGbE RJ45                   | 1xGbE UTP + 1xGbE SFP            | 2xGbE UTP + 2xGbE SFP             | 2xGbE UTP + 2xGbE SFP             |
| PoE Power Budget       | 60W                          | 110W                             | 260W                              | 380W                              |
| Extended Mode          | 250M/ 10Mbps                 | 250M/10Mbps                      | 250M/ 10Mbps                      | 250M/ 10Mbps                      |
| Non-Stop PoE           | V                            | V                                | V                                 | V                                 |
| VLAN                   | 802.1Q Tag-based/ Port-based | 802.1Q Tag-based/ Port-based     | 802.1Q Tag-based/ Port-based      | 802.1Q Tag-based/ Port-based      |
| Spanning Tree Protocol | STP/ RSTP                    | STP/ RSTP                        | STP/ RSTP                         | STP/ RSTP                         |
| LACP                   | V                            | V                                | V                                 | V                                 |



| Model                  | AW-FET-060P-060         | AW-FGT-100P-110      | AW-FGT-180P-250       | AW-FGT-260P-370     |
|------------------------|-------------------------|----------------------|-----------------------|---------------------|
| Type                   | Unmanaged FE PoE Switch |                      |                       |                     |
| PoE port               | 4xFE 30W PoE            | 8xFE 30W PoE         | 16xFE 30W PoE         | 24xFE 30W PoE       |
| Uplink Port            | 2xFE RJ45               | 2xGbE Combo          | 2xGbE Combo           | 2xGbE Combo         |
| PoE Power Budget       | 60W                     | 110W                 | 250W                  | 370W                |
| Adaptive Extended Mode | 4 ports 250/ 10Mbps     | 8 ports 250M/ 10Mbps | 16 ports 250M/ 10Mbps | 24 ports 250M/ Mbps |
| VLAN                   | V                       | V                    | V                     | V                   |
| Video QoS              | V                       | V                    | V                     | V                   |
| PD Alive               | V                       | V                    | V                     | V                   |

# Industrial PoE



Model AW-IHT-1271

| Type                   | Industrial VIVOCAM L2+ Managed PoE Switch |  |
|------------------------|-------------------------------------------|--|
| PoE port               | 8xGbE 30W PoE                             |  |
| Uplink Port            | 4xGbE SFP                                 |  |
| Console Port           | RJ45                                      |  |
| PoE Power Budget       | 240W                                      |  |
| Operating              | -40°C ~ 75°C                              |  |
| Surveillance Feature   | Topology View/ Floor View/ Map View       |  |
| Extended Mode          | 250M/10Mbps                               |  |
| Non-Stop PoE           | V                                         |  |
| DHCP Server            | V                                         |  |
| VLAN                   | 802.1Q Tag-based/ Port-based              |  |
| Spanning Tree Protocol | STP/ RSTP/ MSTP                           |  |
| SNMP (v1, v2c, v3)     | V                                         |  |



Model AW-IHT-0602

| Type                  | Industrial M12 PoE Switch |                        |
|-----------------------|---------------------------|------------------------|
| PoE port              | 4xM12 D-coded PoE         | 8xM12 D-coded PoE      |
| Uplink Port           | 2xM12 D-coded             | 2xM12 X-coded          |
| PoE Power Budget      | 120W                      | 165W@24VDC, 190W@48VDC |
| Operating Temperature | -40°C ~ 75°C              | -40°C ~ 75°C           |
| Bypass Relay          | -                         | V                      |



Model AW-IHT-1002



Model AW-GTS-287A

| Type                   | Industrial Lite Managed PoE Switch |
|------------------------|------------------------------------|
| PoE port               | 2xGbE bt 90W PoE + 6xGbE 30W PoE   |
| Uplink Port            | 2xGbE SFP                          |
| PoE Power Budget       | 300W                               |
| Extended Mode          | 250M/ 10Mbps                       |
| Operating Temperature  | -40°C ~ 75°C                       |
| Non-Stop PoE           | V                                  |
| VLAN                   | 802.1Q Tag-based/ Port-based       |
| Spanning Tree Protocol | STP/ RSTP                          |
| LACP                   | V                                  |



Model AW-IHB-0100

| Type                  | Industrial PoE Injector                                 |
|-----------------------|---------------------------------------------------------|
| Power Input           | 48~56VDC for 30W 802.3af/at<br>52~56VDC for 90W 802.3bt |
| Power Output          | 1xGbE 90W bt PoE                                        |
| Operating Temperature | -40°C ~ 75°C                                            |



# Network Audio

Effective Action for Proactive Deterrence



## Audio for Security

Event-triggered audio announcements to improve property security.



## Loitering Alerts

When a person is loitering beyond a preset time limit, an audio warning can be produced.



## Automated Audio Clips

Support broadcasting live announcements or pre-recorded audio clips automatically when VAST Security Station alarm management is triggered.



## Deter Crime and Safeguarding

Prevent financial damage from graffiti, breaking and entering, or other criminal acts through proactive audio alarms.



# Network Audio



AU-003



AU-004

| Model                     | AU-003                                                                             |  | AU-004                                                  |  |
|---------------------------|------------------------------------------------------------------------------------|--|---------------------------------------------------------|--|
| Type                      | Network Horn Speaker                                                               |  |                                                         |  |
| Product Information       |                                                                                    |  |                                                         |  |
| Rated Impedance           | 8 ohm                                                                              |  | 8 ohm                                                   |  |
| PoE standard              | IEEE 802.3af                                                                       |  | IEEE 802.3af                                            |  |
| Max. power consumption    | 15W                                                                                |  | 15W                                                     |  |
| Max. Sound Pressure Level | 113 dB                                                                             |  | 96 dB                                                   |  |
| Microphone                | 50Hz-20kHz at 1Pa<br>50cm distance<br>SPL 115dB at 1kHz                            |  | 50Hz-20kHz at 1Pa<br>50cm distance<br>SPL 115dB at 1kHz |  |
| Network                   |                                                                                    |  |                                                         |  |
| Supported Protocols       | SIP, ONVIF, HTTP, IPv4, DHCP, RTSP, RTP, RTCP, TCP, UDP, ARP, FTP, TFTP, NFS, NTP  |  |                                                         |  |
| Audio Codec               | OPUS 48 kHz, MP3 44.1 kHz, G.722 ADPCM 16 kHz, G.711 PCMU 8 kHz, G.711 PCMA, 8 kHz |  |                                                         |  |
| General                   |                                                                                    |  |                                                         |  |
| Casing                    | ABS<br>IP66 water-proof                                                            |  | Metal                                                   |  |
| Power                     | PoE, DC 12-24V                                                                     |  | PoE, DC 12-24V                                          |  |
| Operating Temperature     | -30°C ~ 60°C (-22°F ~ 140°F)                                                       |  | -30°C ~ 60°C (-22°F ~ 140°F)                            |  |
| Dimensions                | 225 x 165 x 240 mm                                                                 |  | Ø 200 x 90 mm                                           |  |
| Weight                    | 1.3 kg                                                                             |  | 1 kg                                                    |  |
| Certifications            | CE, FCC, VCCI, BSMI                                                                |  | CE, FCC, VCCI, BSMI                                     |  |



# Solution Integration Alliance

The SIA (Solution Integration Alliance) Program is a strategic alliance that aims to facilitate the integration of VIVOTEK products into leading software or hardware platforms. With the SIA Program, partners have the flexibility to enhance key functionalities when creating an IP surveillance solution. The SIA Program provides programmable Software Development Kits (SDK) to allow partners to develop customized features on an open platform, allowing the highest possible level of integration. VIVOTEK also provides technical support throughout the development process.

Find out more about enrolling in the VIVOTEK SIA Program, please email [sia@vivotek.com](mailto:sia@vivotek.com) for more information.

## Application Partner

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## Video Management Partner

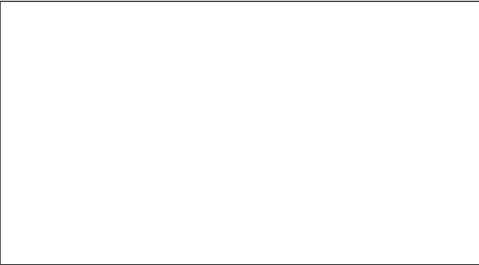


## Hardware Partners





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