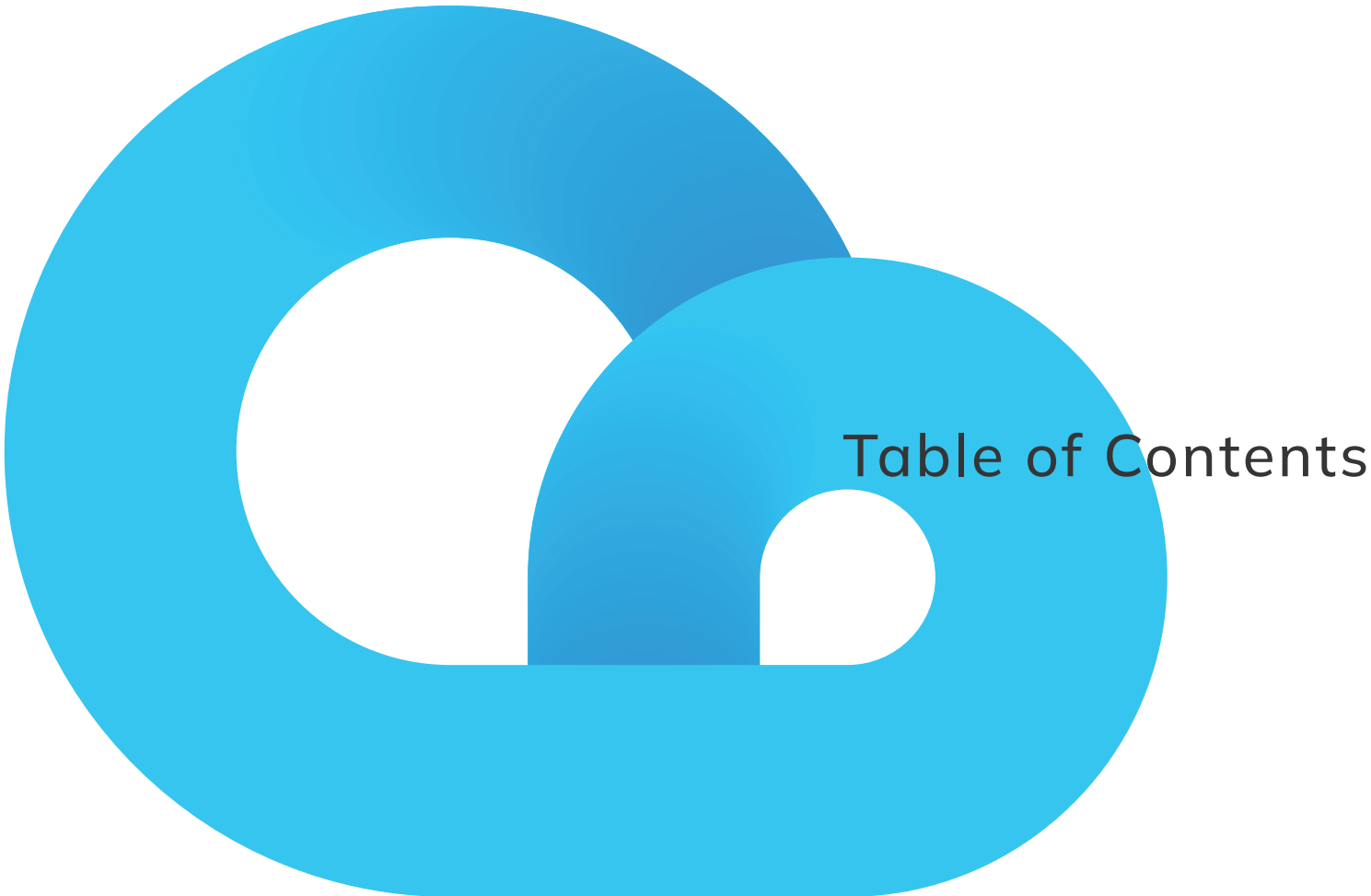




AI-Powered Cloud
Surveillance Platform



3.	Leading AI-Driven Cloud Security
5.	One Platform for Centralized Security Management
	Hybrid Cloud
	Cybersecurity
	Flexible Deployment and Connection
	3rd Party Integration
	Effortless Uplift Your Existing Cameras
15.	AI-Powered Operations Automation Platform
	Unmatched 24/7 Protection with AI Precision
	Real-Time Alerts for Immediate Response
	Instant Event Detection and Search
	Empower Business Success
21.	Industry Use Cases
23.	Cameras



About VORTEX

Leading AI-Driven Cloud Security

In 2022, VIVOTEK introduced VORTEX, a VSaaS platform offering **cloud-based, AI-driven surveillance** through seamless integration with VORTEX cameras. Built on VIVOTEK's trusted technology, VORTEX enhances security with advanced tools and intuitive connectivity within a reliable ecosystem

VORTEX transcends traditional surveillance by delivering **scalable, high-performance video security** that not only safeguards assets but also enhances **business intelligence and operational excellence**. Trusted across the Americas and APAC by industries like education, retail, and property management, VORTEX empowers organizations to secure assets and unlock insights that drive efficiency.



Our **hybrid cloud architecture and intuitive platform** enable seamless integration, allowing teams of any skill level to deploy VORTEX across **multi-site environments with ease**. With robust cybersecurity protocols, **VORTEX ensures data privacy and security at every layer**, providing a secure and reliable foundation.

Fueled by advanced AI, VORTEX enables **proactive, data-driven decisions** that bolster safety and support smarter strategies. With seamless **third-party integration**, VORTEX offers unmatched flexibility, extending capabilities within a connected, **reliable ecosystem designed to elevate your operations**.



VORTEX Platform

One Platform for Centralized Security Management

Manage from Anywhere

Effortlessly control all VORTEX devices and existing cameras remotely, on any device, with our intuitive cloud interface, ensuring real-time responsiveness.

Hybrid Cloud Scalability

Enhance security with VORTEX's hybrid cloud, offering flexibility, instant scalability, proactive detection, remote management, and robust cybersecurity to stay ahead.

Real-Time Notifications

Receive instant alerts and operational insights for swift responses, empowering proactive management that drives both safety and efficiency across locations.

Effortless Maintenance

Automatic updates deliver the latest features, security patches, and AI enhancements, ensuring peak performance and security with zero-touch maintenance.

Cybersecurity with Zero Trust

VORTEX secures your organization with encrypted devices, cloud storage, role-based access, MFA, SSO, ISO 27001 certification, global compliance, and continuous monitoring for trusted, resilient protection.

AIoT Integration

VORTEX integrates with third-party solutions, enabling intelligent automation and data processing for streamlined operations and effective, informed decision-making.

Why VORTEX

Hybrid Cloud Solutions for Scalable, Intelligent Security

VORTEX delivers flexible hybrid cloud solutions, empowering organizations with scalable, reliable, AI-driven security through hybrid cloud storage and seamless integration.

Direct-to-Cloud



VORTEX-ready Cameras

Bridge-to-Cloud

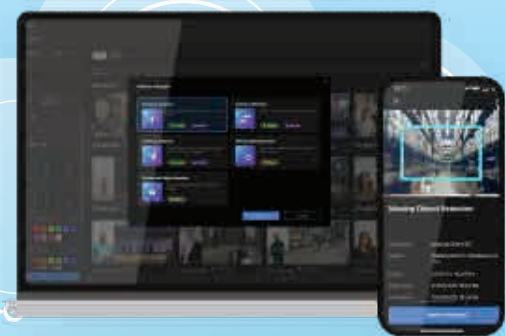


VIVOTEK Cameras

Other ONVIF Profile S Cameras



Network Video Recorder



Portal+ App

Bring VIVOTEK Cameras or Existing ONVIF Cameras to Cloud

VORTEX Connect is our hybrid cloud managed service, enable to maximize your current investments and empowers you to leverage advanced cloud management features, ensuring that your operations remain efficient and secure.

Powerful Video Security with Hybrid Cloud Storage

VORTEX Combines high-resolution video security, 30-day local storage on cameras, and scalable cloud storage for reliable, secure data management.

Minimize Hardware Requirements

Eliminate NVRs, DVRs, and hard drive costs with hassle-free installation, 10-year VORTEX camera warranty, and Over-the-Air (OTA) firmware and security updates .

Built-In Resilience for Continuous Protection

VORTEX ensures continuous recording with local storage, preserving all footage during network outages and syncing to the cloud once connectivity is restored.

Adaptive Bandwidth Streaming

VORTEX conserves bandwidth by streaming footage only upon access, maintaining efficiency at 20–50 kbps for uninterrupted access.

AI-Driven Insights in Real-Time

Leveraging advanced AI processing, VORTEX surfaces meaningful events instantly, delivering actionable insights for faster, data-driven responses.



Cybersecurity for Advanced Protection

VORTEX provides multi-layered cybersecurity to proactively secure data, devices, and networks against evolving cyber threats, ensuring resilient and reliable protection.

Cloud Security

TLS 1.2 and AES-256 encryption, local data residency in USA, Japan, Germany and Australia, automatic upgrades, and no port forwarding ensure robust cloud security.

Device Security

Encrypted SD cards, secure boot, signed firmware, unauthorized access prevention, and automatic updates ensure protection and performance.

Identity and Access Management

Role-Based Access Control and audit logs ensure tailored permissions, data security, and operational integrity.

Data Security

VORTEX ensures robust data security through industry compliance (NDAA, TAA), GDPR readiness and ISO 27001 certification.

Application Security

Single Sign-On simplifies access, and Multi-Factor Authentication ensures robust protection for sensitive data and networks.

Flexible Deployment and Connection with VORTEX

Deploy VORTEX devices effortlessly in any location, from parking lots to building exteriors, even in remote or urban settings.



1

Quick Setup

A simple scan of the QR code will add the camera to the VORTEX service, enabling cross-devices remote access.

3

Deploy Anywhere

Indoor and outdoor models withstand diverse installations, from poles and rooftops to walls and tables.

2

Intelligent Monitoring for System Health

Receive alerts for critical events like device offline status or storage issues, ensuring continuous operation.

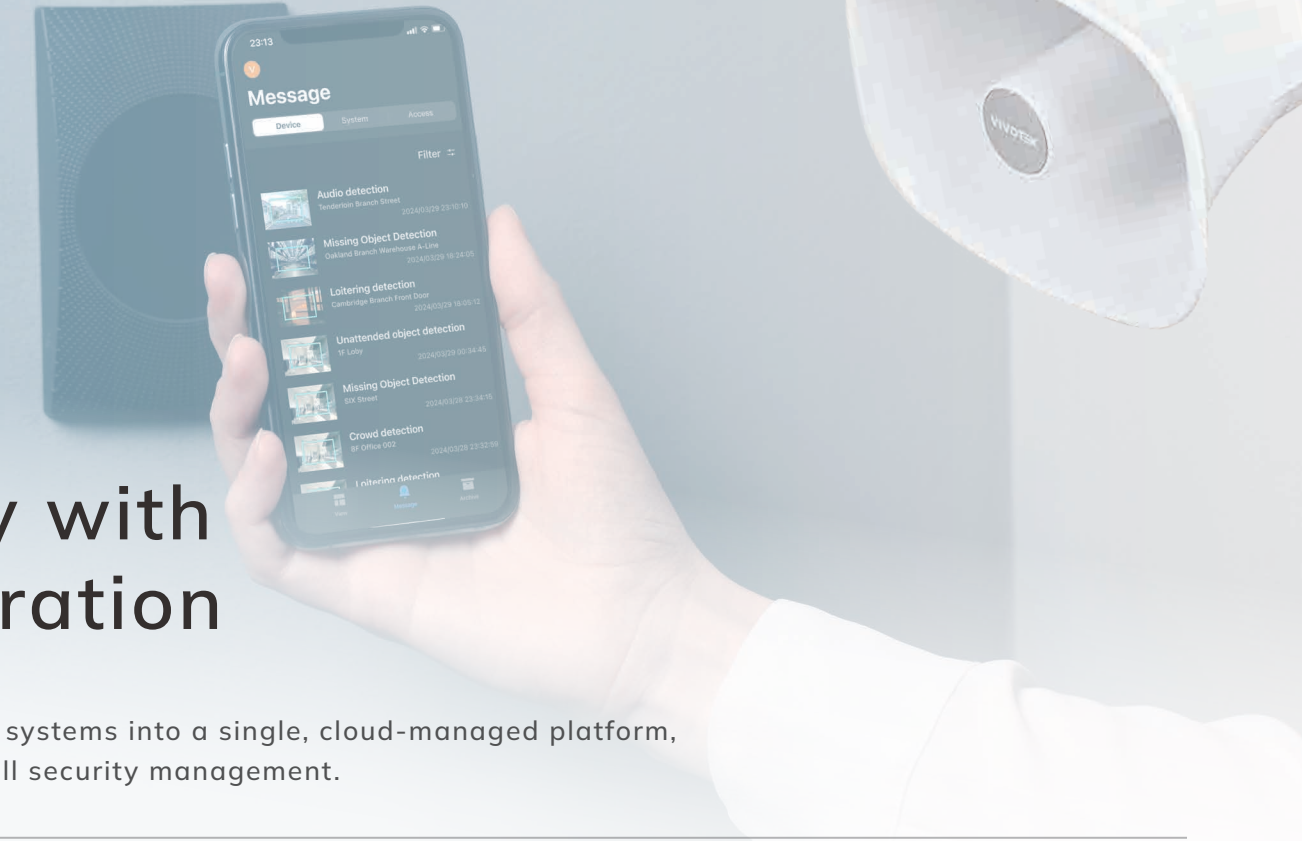
4

Real-Time Notification

Get instant notifications via mobile, email, sirens, or webhooks for AI-analyzed incidents, enhancing situational awareness.

Unified Security with Seamless Integration

VORTEX effortlessly unites other security systems into a single, cloud-managed platform, reducing complexity and enhancing overall security management.



Access Control

Monitor access and identity seamlessly with VORTEX. Detect unusual activities using video analytics, triggering instant notifications to prevent incidents proactively.

VORTEX API

Easily integrate systems with secure VORTEX APIs for live video, device data, and topology- supporting custom application development.

Network Speaker

Respond proactively to threats with audio, allowing both pre-recorded messages and live talk-down through network speakers to effectively deter intrusions in real time.

Effortless Uplift your Existing Cameras to Cloud at Scale

VORTEX Connect, a hybrid cloud managed service, enabling to enhance your existing surveillance systems by seamlessly integrating them into our cloud ecosystem.



Easy Plug and Play

Effortlessly connect VIVOTEK Network Video Recorder (NVR) by scanning the QR code instead of manually entering IP address, user account, and password.

Simplified User Management

Assign role-based privileges to tailor access and designate group/site access for organized control.

Instantly Alert and Unified Camera View

Received instant alerts and centralized VORTEX Cloud Cameras, VIVOTEK and other brands Cameras in one place; Access anywhere, any devices.

Effortlessly Videos Sharing

Achieve seamless video sharing using a simple link, accelerate incident response.

Remote Device Management

Zero configuration, Over-the-air(OTA) firmware updates, remote reboots NVR, and PoE power cycling simplify troubleshooting and boost multi-site efficiency.

AI Hub

AI Hub unifies event search, text-based Deep Search, and Case Vault to streamline investigations and generate actionable, shareable reports.

Please explore the supported cameras on the [VIVOTEK website](#) or contact our regional sales team for further assistance.

Security Protection

No port forwarding eliminates vulnerabilities. End-to-end encryption with TLS 1.2 and AES-256 secures data. SSO and MFA simplify access and strengthen security.



VORTEX Platform

AI-Powered Operations Automation Platform

Unmatched 24/7 Protection with AI Precision

Experience complete, real-time security with VORTEX's AI-driven, cloud-managed system, offering continuous, high-accuracy threat detection—even in challenging conditions.

Real-Time Alerts for Immediate Response

Stay instantly informed with real-time alerts via mobile, email, sirens, or webhooks, ensuring proactive awareness and quick action on AI-analyzed incidents.

Instant Event Detection and Search

Easily locate critical moments with Scene Search, including intrusion, line-crossing, or loitering detection, and rapidly identify individuals with Profile Search and License Plate Recognition for streamlined, precise tracking.

Empower Business Success

Leverage VORTEX's AI-driven analytics to streamline workflows, optimize efficiency, and gain actionable insights, transforming security into a powerful business tool.

Unmatched 24/7 Protection with AI Precision



Smart Alarm Integration with VORTEX Cameras

VORTEX cameras use AI to detect real threats, reducing false alarms and the need for additional devices in your security setup.

Reinforce Your Perimeter

VORTEX's AI instantly identifies true threats, activating proactive protection the moment someone enters your property's secure zone.

Optimize Security Resources

AI-powered detection filters out false alarms, allowing security teams to focus on verified threats, streamlining operations and response times.

Gen-AI Intelligence in AI Hub

The VORTEX AI Hub centralizes event detection with text-based search powered by VLM and Event Insight, removing investigation delays and simplifying complex workflows.

"Reduced False Alarms by 80-90%: With advanced AI capabilities, VORTEX dramatically reduced false alarms by filtering out irrelevant events such as moving objects like shadows.

-John Stevens, CEO of American Veterans Security

Real-Time Detection for Immediate Response



Intrusion



Line-Crossing



Loitering



Missing Object



Unattended Object

Proactive Response

Enable rapid, informed decision-making by receiving alerts for genuine security threats, minimizing response times for critical situations.

Swift Action

Capture key clips, export detailed reports, and share insights for swift, decisive response.

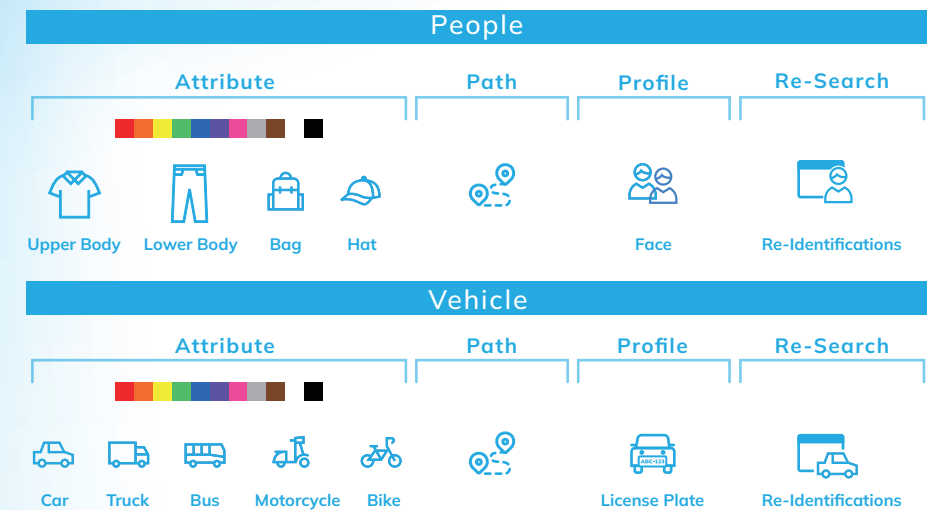
Unified Deterrence with Third-Party Integration

Integrate access control with VORTEX, creating a unified platform to deter threats and bolster site security.

VORTEX enables rapid retrieval of relevant footage when needed and can integrate network horn speakers to play pre-recorded messages, deterring suspicious individuals detected loitering in designated areas.

-NGO Association in California

Instant Event Search



VORTEX, a transformative change, turns passive monitoring into active alarms, reducing the time and resources needed for human intervention.

-Delta Electronics

- AI Hub**
Unified AI intelligence simplifies surveillance from detection to search — AI Hub now supports GenAI-powered natural language search with VLM.
- Profile Search / Facial Recognition**
Identify known individuals effortlessly with profile-based recognition, delivering immediate threat alerts and comprehensive insights into activities and patterns.
- License Plate Recognition**
Efficiently monitor and track license plates in real-time, fully integrated within VORTEX for streamlined, accurate vehicle identification.
- Swift Action**
Gain instant control with Case Vault's timeline-based reports.

Empower Business Success

- Operational Excellence**
VORTEX's AI optimizes processes, reduces downtime, and lowers operational costs, empowering businesses to achieve peak efficiency and profitability.
- Enhanced Customer Experience**
Gain actionable insights into customer behavior, allowing you to tailor experiences, build loyalty, and boost revenue through data-driven strategies.
- Real-Time Agility**
Access live metrics for immediate adjustments, enhancing productivity, mitigating risks, and ensuring sustained, high-performance operations.





VORTEX Platform

Industry Use Cases

Security Monitoring Service

24/7 surveillance with real-time notifications on mobile or web, backed by flexible subscription plans for uninterrupted protection.

Solar Plant

Enhance security, safety, and efficiency in solar plants with VORTEX's AI-powered monitoring, providing proactive risk detection, regulatory compliance, and optimized performance for critical infrastructure.

Education

Empower schools with AI-driven preparedness, operational efficiency, and a safer learning environment for students and staff.

Property Management

Enhance tenant safety and retention through proactive, intelligent security management.

Wholesale/Store

Monitor shopper activity with precision, facilitating effective store management and a safe shopping experience.

Charging Station

Safeguard your EV charging stations with VORTEX's AI-driven monitoring, offering real-time threat detection, asset protection, and enhanced operational efficiency for uninterrupted service and user safety.

Manufacturing/Factory

Minimize accidents and injuries in multiple areas with AI protection.

QSR and Retail

Protect assets, deter theft, and ensure operational continuity, delivering a secure and seamless customer experience.

VORTEX Platform

Wide Array of Cameras options to meet any scenarios

VORTEX cameras integrate VIVOTEK's Edge AI with VORTEX Cloud, for seamless, intelligent surveillance and real-time insights



RealSight Engine

Preserve true colors accuracy, unaffected by environmental or lighting conditions.



Cloud Archive

Storage for archived video clips.



Single-Sign-on (SSO) and Multi-Factor Authentication

Eliminate multiple credentials.



Warranty

10-Year Warranty for VORTEX Cameras with NDAA Compliance.



Panoramic Camera

180° / 360° coverage for seamless protection without blind spots, enhancing monitoring efficiency with advanced AI for precise people detection. Its design reduces the need for multiple cameras, lowering total ownership costs.



Bullet Camera

An all-in-one solution with IR capabilities, easy installation, motorized focal adjustment, a built-in sun shield, and low-lux performance. Ideal for deterring intrusions with superior visibility in diverse lighting conditions.



Fisheye Camera

Capture 360° panoramic views with high-resolution imaging and WDR Pro, ensuring optimal quality even in high-contrast lighting.



Dome Camera

A discreet, all-in-one design with IR capabilities, offering a discreet, vandal-proof solution. Features include motorized focal adjustment, low-lux performance, easy maintenance.



Accessories

Camera type PREMIUM		<div> <div>CC831-HV</div></div> <div> <div>CC830-HV</div></div> <div> <div>MS930-EHV</div></div> <div> <div>FD939-EHTV</div></div> <div> <div>FD839-EHTV-V2</div></div> <div> <div>FD833-HV</div></div> <div> <div>IB939-EHTV</div></div> <div> <div>IB839-EHTV-V2</div></div> <div> <div>IB833-HV</div></div>				VORTEX				
Camera Features	Camera type	5MP Panoramic	5MP Panoramic	8MP Panoramic	8MP Dome	5MP Dome	5MP Dome	8MP Bullet	5MP Bullet	5MP Bullet
	Image Sensor	1/2.8" Progressive CMOS	1/2.8" Progressive CMOS	1/2.7" Progressive CMOS	1/1.8" Progressive CMOS	1/2.8" Progressive CMOS	1/2.8" Progressive CMOS	1/1.8" Progressive CMOS	1/2.8" Progressive CMOS	1/2.8" Progressive CMOS
	Max. Resolution	SD: 1280 x 960 / HD: 2560 x 1920	SD: 1280 x 960 / HD: 2560 x 1920	SD: 2432x 816 / HD: 4864 x 1632	SD: 1280 x 720 / HD: 3840 x 2160	SD: 1280 x 960 / HD: 2560 x 1920	SD: 1280 x 960 / HD: 2560 x 1920	SD: 1280 x 720 / HD: 3840 x 2160	SD: 1280 x 960 / HD: 2560 x 1920	SD: 1280 x 960 / HD: 2560 x 1920
	Lens Type	Fixed-focal	Fixed-focal	Fixed-focal	Motorized, Vari-focal, Remote Focus	Motorized, Vari-focal, Remote Focus	Fixed-focal	Motorized, Vari-focal, Remote Focus	Motorized, Vari-focal, Remote Focus	Fixed-focal
	Focal Length	f = 1.47 mm	f = 1.47 mm	f = 2.8 mm	f = 4.3 ~ 9.8mm	f = 2.8 ~ 12 mm	f = 2.8 mm	f = 4.3~9.8mm	f = 2.8 ~ 12 mm	f = 3.6 mm
Platform	Iris	Fixed Iris	Fixed Iris	Fixed iris	P-iris	P-iris	Fixed iris	P-iris	P-iris	Fixed iris
	Field of View	180° (Horizontal) 120° (Vertical) 180°(Diagonal)	180° (Horizontal) 120° (Vertical) 180°(Diagonal)	180° (Horizontal) 50° (Vertical) 180° (Diagonal)	110.4° ~ 45.1° (Horizontal) 57.9° ~ 25.4° (Vertical) 133.9° ~ 51.8°(Diagonal)	95.4° ~ 28.7° (Horizontal) 68.8° ~ 21.5° (Vertical) 129.6° ~ 35.9°(Diagonal)	103.4° (Horizontal) 75.3° (Vertical) 135.2° (Diagonal)	110.4° ~ 45.1° (Horizontal) 57.9° ~ 25.4° (Vertical) 133.9° ~ 51.8°(Diagonal)	95.4° ~ 28.7° (Horizontal) 68.8° ~ 21.5° (Vertical) 129.6° ~ 35.9°(Diagonal)	79.6° (Horizontal) 57.8° (Vertical) 105.8° (Diagonal)
	Shutter Speed	1/5 sec. to 1/32,000 sec.	1/5 sec. to 1/32,000 sec.	1/30 sec. to 1/32,000 sec.	1/5 sec. to 1/32,000 sec.	1/5 sec. to 1/32,000 sec	1/5 sec. to 1/32,000 sec.	1/5 sec. to 1/32,000 sec.	1/5 sec. to 1/32,000 sec.	1/5 sec. to 1/32,000 sec.
	IR Distance	Built-in IR illuminators up to 20 meters with Smart IR, IR LED*4		20 meters	Built-in IR illuminators, effective up to 40 meters with Smart IR, IR LED*4	Built-in IR illuminators, effective up to 40 meters with Smart IR, IR LED*4	30 meters	Built-in IR illuminators, effective up to 40 meters with Smart IR, IR LED*4	Built-in IR illuminators, effective up to 40 meters with Smart IR, IR LED*4	30 meters
	Minimum Illumination	0.08 lux @ F2.7 (Color) 0.005lux @ F2.7 (B/W) 0 lux with IR Illumination on	0.08 lux @ F2.7 (Color) 0.005lux @ F2.7 (B/W)	0.018 lux @ F1.2 (Color), 30IRE <0.01 lux @ F1.2 (B/W) 0 lux with IR illumination on	0.02 lux @ F1.6 (Color) <0.005 lux @ F1.6 (B/W) 0 lux with IR illumination on	0.04 lux @ F1.6 (Color) 0.005 lux @ F1.6 (B/W) 0 lux with IR illumination on	0.055 lux @ F2.0 (Color) 0.005 lux @ F2.0 (B/W) 0 lux with IR illumination on	0.02 lux @ F1.6 (Color) <0.005 lux @ F1.6 (B/W) 0 lux with IR illumination on	0.04 lux @ F1.6 (Color) 0.005 lux @ F1.6 (B/W) 0 lux with IR illumination on	0.055 lux @ F2.0 (Color) 0.005 lux @ F2.0 (B/W) 0 lux with IR illumination on
AI Features	Onboard Storage	MicroSD/SDHC/SDXC card slot (Built-in 256GB industrial SDCard)	MicroSD/SDHC/SDXC card slot (Built-in 256GB industrial SDCard)	MicroSD/SDHC/SDXC card slot (Built-in 512GB industrial SDCard)	MicroSD/SDHC/SDXC card slot (Built-in 512GB industrial SDCard)	MicroSD/SDHC/SDXC card slot (Built-in 256GB industrial SDCard)	MicroSD/SDHC/SDXC card slot (Built-in 256GB industrial SDCard)	MicroSD/SDHC/SDXC card slot (Built-in 512GB industrial SDCard)	MicroSD/SDHC/SDXC card slot (Built-in 256GB industrial SDCard)	MicroSD/SDHC/SDXC card slot (Built-in 256GB industrial SDCard)
	Video compression	HD 2560 x 1920@15fps 1.2Mbps upload SD 1280 x 960@15fps 300Kbps upload	HD 2560 x 1920@15fps 1.2Mbps upload SD 1280 x 960@15fps 300Kbps upload	HD 4864 x 1632 @15fps 3Mbps upload SD 2432x 816@15fps 400Kbps upload	HD Video 3840 x 2160 @15fps 3Mbps upload SD Video 1280 x 720@15fps 400Kbps upload	HD Video 2560 x 1920@15fps 1.2Mbps upload SD Video 1280 x 960@15fps 300Kbps upload	HD Video 2560 x 1920@15fps 1.2Mbps upload SD Video 1280 x 960@15fps 300Kbps upload	HD Video 3840 x 2160 @15fps 3Mbps upload SD Video 1280 x 720@15fps 300Kbps upload	HD Video 2560 x 1920@15fps 1.2Mbps upload SD Video 1280 x 960@15fps 300Kbps upload	HD Video 2560 x 1920@15fps 1.2Mbps upload SD Video 1280 x 960@15fps 300Kbps upload
	Frame Rate	15 FPS	15 FPS	15FPS	15FPS	15FPS	15FPS	15FPS	15FPS	15FPS
	Audio	One-way Audio	One-way Audio	One-way Audio	Two-way audio (Full duplex)* *Requires AO-015 cable	Two-way audio (Full duplex)* *Requires AO-015 cable	-	Two-way audio	Two-way audio	One-way Audio
	Built in Mic	V	V	V	Built-in microphone / External microphone Input* / External line output* / * Requires AO-015 cable	Built-in microphone / Two-way audio connectivity by optional I/O & audio cable	V	Built-in microphone / External microphone Input / External line output	Built-in microphone / External microphone Input External line output	V
Use Cases	General	IEEE 802.3af PoE Class 0	IEEE 802.3af PoE Class 0	IEEE 802.3at PoE Class 4	IEEE 802.3af PoE Class 3	IEEE 802.3af PoE Class 3	IEEE 802.3af PoE Class 3	IEEE 802.3af PoE Class 3	IEEE 802.3af PoE Class 3	IEEE 802.3af PoE Class 3
	Power input									
	Power Consumption	Max. 10.26W/6.96W (IR on/off)	MAX. 9.12W	Max: 20 W / 13.5W (IR on/ IR off)	Max. 12.4W/ 9.6W (IR on/off)	Max. 12.4W/ 9.6W (IR on/off)	Max. 8.5 W/ 6.0 W (IR on/off)	Max. 12.4W/ 9.6W (IR on/off)	Max. 12.4W/ 9.6W (IR on/off)	Max. 10.6 W / 6.0 W (IR on/off)
	Connectivity	• RJ-45 cable connector for 10/100 Mbps Network/PoE connection	• RJ-45 cable connector for 10/100 Mbps Network/PoE connection	• RJ-45 cable connector for 10/100 Mbps PoE network connection	• RJ-45 cable connector for 10/100 Mbps Network/PoE connection • Audio line input* • Audio line output* • Digital input: 1* • Digital output: 1* * Requires AO-015 cable	• RJ-45 cable connector for 10/100 Mbps Network/PoE connection • Audio line input* • Audio line output* • Digital input: 1* • Digital output: 1* * Requires AO-015 cable	• RJ-45 cable connector for 10/100 Mbps Network/PoE connection	• RJ-45 cable connector for 10/100 Mbps Network/PoE connection • Audio line input • Audio line output • Digital input: 1 • Digital output: 1	• RJ-45 cable connector for 10/100 Mbps Network/PoE connection • Audio line input • Audio line output • Digital input: 1 • Digital output: 1	• RJ-45 cable connector for 10/100 Mbps Network/PoE connection • Audio line input • Audio line output • Digital input: 1 • Digital output: 1
	Operating Temperature	Starting Temperature: -10°C ~ 55°C (14°F~ 131°F) Working Temperature: -30°C ~ 55°C (-22°F~ 131°F)(IR on) -30°C ~ 60°C (-22°F~ 140°F)(IR off)	Starting Temperature: -10°C ~ 55°C (14°F~ 131°F) Working Temperature: -30°C ~ 55°C (-22°F~131°F)	Starting Temperature: -30°C ~ 55°C (-22°F ~ 131°F) Working Temperature: -40°C ~ 55°C (-40°F ~ 131°F) (IR off) -40°C ~ 50°C (-40°F ~ 122°F) (IR on)	Starting Temperature: -20°C ~ 50°C (-4°F ~ 122°F) Working Temperature: -35°C ~ 60°C (-31°F ~ 140°F) (IR off) -35°C ~ 50°C (-31°F ~ 122°F) (IR on)	Starting Temperature: -20°C ~ 50°C (-4°F ~ 122°F) Working Temperature: -35°C ~ 60°C (-31°F ~ 140°F) (IR off) -35°C ~ 50°C (-31°F ~ 122°F) (IR on)	Starting Temperature: -20°C ~ 50°C (-14°F ~ 122°F) Working Temperature: -30°C ~ 55°C (-22°F ~ 131°F) (IR off) -30°C ~ 50°C (-22°F ~ 122°F) (IR on)	Starting Temperature: -20°C ~ 50°C (-4°F ~ 122°F) Working Temperature: -35°C ~ 60°C (-31°F ~ 140°F) (IR off) -35°C ~ 50°C (-31°F ~ 122°F) (IR on)	Starting Temperature: -20°C ~ 50°C (-14°F ~ 122°F) Working Temperature: -35°C ~ 60°C (-31°F ~ 140°F) (IR off) -35°C ~ 50°C (-31°F ~ 122°F) (IR on)	Starting Temperature: -10°C ~ 50°C (-14°F ~ 122°F) Working Temperature: -30°C ~ 55°C (-22°F ~ 131°F) (IR off) -30°C ~ 50°C (-22°F ~ 122°F) (IR on)
Cameras	IP/IK	IP66/IK10	IP66/IK10	IP66/IK10	IP66/IK10	IP66/IK10	IP66/IK10	IP67/IK10	IP67/IK10	IP66/IK10
	Real Time Detection	V	V	V	V	V	V	V	V	V
	AI-Powered Search	Scene Search, AI Hub (Deep Search for people and vehicle, Event Insights, Text Search powered by VLM, Profile, Re-Search, License-Plate)				Scene Search, AI Hub (Deep Search for people and vehicle, Event Insights, Text Search powered by VLM, Profile, Re-Search, License-Plate)				

25

26

Camera type PREMIUM		<div><div>FE912-H</div><div>FE931-EHV</div><div>IT939-HTVW</div><div>IT839-HTVW-V2</div><div>IT833-HVW</div></div>					Camera type ESSENTIAL		<div><div>FD639</div><div>IB639</div></div>	
Camera Features	Camera type	12MP Recess fisheye	12MP Fisheye	8MP Turret	5MP Turret	5MP Turret Dome	Camera type	2MP Dome	2MP Bullet	
	Image Sensor	1/2.3" Progressive CMOS	1/2.3" Progressive CMOS	1/1.8" Progressive CMOS	1/2.8" Progressive CMOS	1/2.8" Progressive CMOS	Image Sensor	1/3.1" Progressive CMOS	1/3.1" Progressive CMOS	
	Max. Resolution	SD: 1024 x 1024 / HD: 2944x2944	SD: 1024 x 1024 / HD: 2944x2944	SD: 1280 x 720 / HD: 3840 x 2160	SD: 1280 x 960 / HD: 2560 x 1920	SD: 1280 x 960 / HD: 2560 x 1920	Max. Resolution	SD: 1280 x 720 / HD: 1920 x 1080	SD: 1280 x 720 / HD: 1920 x 1080	
	Lens Type	Fixed-focal	Fixed-focal	Motorized, Vari-focal, Remote Focus	Motorized, Vari-focal, Remote Focus	Fixed-focal	Lens Type	Fixed-focal	Fixed-focal	
	Focal Length	f = 1.22mm	f = 1.22mm	f = 4.3 ~ 9.8 mm	f = 2.8 ~ 12 mm	f = 2.8 mm	Focal Length	f = 2.8 mm	f = 2.8 mm	
	Iris	Fixed iris	Fixed iris	P-iris	P-iris	Fixed iris	Iris	Fixed iris	Fixed iris	
Video/Audio/Network	Field of View	180° (Horizontal) 180° (Vertical) 180° (Diagonal)	180° (Horizontal) 180° (Vertical) 180° (Diagonal)	110.4° ~45.1° (Horizontal) 57.9 ~ 25.4° (Vertical) 133.9° ~ 51.8°(Diagonal)	95.4° ~ 28.7° (Horizontal) 68.8° ~ 21.5° (Vertical) 129.6° ~ 35.9°(Diagonal)	103.4° (Horizontal) 75.3° (Vertical) 135.2° (Diagonal)	Field of View	116° (Horizontal) 65° (Vertical) 140° (Diagonal)	116° (Horizontal) 65° (Vertical) 140° (Diagonal)	
	Shutter Speed	1/5 sec. to 1/32,000 sec.	1/5 sec. to 1/32,000 sec.	1/5 sec. to 1/32,000 sec.	1/5 sec. to 1/32,000 sec.	1/5 sec. to 1/32,000 sec.	Shutter Speed	1/5 sec. to 1/32,000 sec.	1/5 sec. to 1/32,000 sec.	
	IR Distance	-	20 meters	Built-in Warm Light & Infrared (Hybrid) illuminators, IR effective up to 40 meters & warm light effective up to 30 meters with Smart IR/ warm light	Built-in Warm Light & Infrared (Hybrid) illuminators, IR effective up to 40 meters & warm light effective up to 30 meters with Smart IR/ warm light	Built-in Warm Light & Infrared (Hybrid) illuminators, effective up to 30 meters with Smart IR/ warm light	IR Distance	30 meters	30 meters	
	Minimum Illumination	0.1 lux @ F2.0 (Color) <0.005 lux @ F2.0 (B/W)	0.1 lux @ F2.0 (Color) <0.005 lux @ F2.0 (B/W) 0 lux with IR illumination on	0.02 lux @ F1.6 (Color) <0.005 lux @ F1.6 (B/W) 0 lux with IR illumination on	0.04 lux @ F1.6 (Color) 0.005 lux @ F1.6 (B/W) 0 lux with IR illumination on	0.055 lux @ F2.0 (Color) 0.005 lux @ F2.0 (B/W) 0 lux with IR illumination on	Minimum Illumination	0.08 lux @ F2.0 (Color) <0.005 lux @ F2.0 (B/W) 0 lux with IR illumination on	0.08 lux @ F2.0 (Color) <0.005 lux @ F2.0 (B/W) 0 lux with IR illumination on	
	Onboard Storage	MicroSD/SDHC/SDXC card slot (Built-in 512GB industrial SDCard)	MicroSD/SDHC/SDXC card slot (Built-in 512GB industrial SDCard)	MicroSD/SDHC/SDXC card slot (Built-in 512GB industrial SDCard)	MicroSD/SDHC/SDXC card slot (Built-in 256GB industrial SDCard)	MicroSD/SDHC/SDXC card slot (Built-in 256GB industrial SDCard)	Onboard Storage	MicroSD/SDHC/SDXC card slot (Built-in 128GB industrial SDCard)	MicroSD/SDHC/SDXC card slot (Built-in 128GB industrial SDCard)	
	Video compression	HD Video 2944 x 2944@15fps 3Mbps upload SD Video 1024 x 1024@15fps 300Kbps upload	HD Video 2944 x 2944@15fps 3Mbps upload SD Video 1024 x 1024@15fps 300Kbps upload	HD Video 3840 x 2160 @15fps 3Mbps upload SD Video 1280 x 720@15fps 400Kbps upload	HD Video 2560 x 1920@15fps 1.2Mbps upload SD Video 1280 x 960@15fps 300Kbps upload	HD Video 2560 x 1920@15fps 1.2Mbps upload SD Video 1280 x 960@15fps 300Kbps upload	Video compression	• HD Video 1920 x 1080 @15fps 600Kbps upload • SD Video 1280 x 720 @15fps 200Kbps upload	• HD Video 1920 x 1080 @15fps 600Kbps upload • SD Video 1280 x 720 @15fps 200Kbps upload	
General	Frame Rate	15FPS	15FPS	15FPS	15FPS	15FPS	Frame Rate	15FPS	15FPS	
	Audio	One-way Audio	One-way Audio	Two-way audio (Full duplex)	Two-way audio (Full duplex)	One-way Audio	Audio	One-way Audio	-	
	Built in Mic	V	V	Built-in microphone / Built-in speaker External microphone Input / External line output	Built-in microphone / Built-in speaker External microphone Input / External line output	V	Built in Mic	V	-	
	Power input	IEEE 802.3af PoE Class 0	IEEE 802.3at PoE Class 4	IEEE 802.3af PoE Class 3	IEEE 802.3af PoE Class 3	IEEE 802.3af PoE Class 3	Power input	IEEE 802.3af Class 0 PoE, DC 12V (Simultaneous Power Redundancy Supported)	IEEE 802.3af Class 0 PoE, DC 12V (Simultaneous Power Redundancy Supported)	
	Power Consumption	Max. 9 W	Max. 22.5 W/9.55 W (IR on/off)	Max. 12.4W/ 9.6W (IR on/off)	Max. 12.4W/ 9.6W (IR on/off)	Max: 10.7W / 7W (IR on/off) Normal: 5.5W	Power Consumption	PoE: Max. 6.49W/4W (IR on/off) DC 12V: Max. 5.1W/3.4W (IR on/off)	PoE: Max. 6.49W/4W (IR on/off) DC 12V: Max. 5.1W/3.4W (IR on/off)	
	Connectivity	• RJ-45 cable connector for 10/100 Mbps PoE network connection	• RJ-45 cable connector for 10/100 Mbps PoE network connection	RJ-45 cable connector for 10/100 Mbps Network/PoE connection • Audio line input • Audio line output • Digital input: 1 • Digital output: 1	RJ-45 cable connector for 10/100 Mbps Network/PoE connection • Audio line input • Audio line output • Digital input: 1 • Digital output: 1	• RJ-45 cable connector for 10/100 Mbps Network/PoE connection	Connectivity	• RJ-45 cable connector for 10/100 Mbps PoE network connection	• RJ-45 cable connector for 10/100 Mbps PoE network connection	
AI-Powered Search	Operating Temperature	Starting Temperature: 0°C ~ 50°C (32°F ~122°F) Working Temperature: -10°C ~ 50°C (14°F ~122°F)	Starting Temperature: -20°C ~ 50°C (-4°F ~ 122°F) Working Temperature: -40°C ~ 55°C (-40°F ~ 131°F) (IR off) -40°C ~ 50°C (-40°F ~ 122°F) (IR on)	Starting Temperature: -10°C ~ 50°C (14°F ~ 122°F) Working Temperature: -30°C ~ 50°C (-22°F ~ 122°F) (IR off) -30°C ~ 45°C (-22°F ~ 113°F) (IR on)	Starting Temperature: -10°C ~ 50°C (14°F ~ 122°F) Working Temperature: -30°C ~ 50°C (-22°F ~ 122°F) (IR off) -30°C ~ 45°C (-22°F ~ 113°F) (IR on)	Starting Temperature: -10°C ~ 50°C (-14°F ~ 122°F) Working Temperature: -30°C ~ 55°C (-22°F ~ 131°F) (IR off) -30°C ~ 50°C (-22°F ~ 122°F) (IR on)	Operating Temperature	Starting Temperature: -30°C ~ 50°C (-22°F ~ 122°F) Working Temperature: -30°C ~ 55°C (-22°F ~ 131°F) (IR off) -30°C ~ 50°C (-22°F ~ 122°F) (IR on)	Starting Temperature: -30°C ~ 50°C (-22°F ~ 122°F) Working Temperature: -30°C ~ 55°C (-22°F ~ 131°F) (IR off) -30°C ~ 50°C (-22°F ~ 122°F) (IR on)	
	IP/IK	IP54/IK10	IP66/IK10	IP66/IK10	IP66/IK10	IP66/IK10	IP/IK	IP66/IK10	IP66/IK10	
	Real Time Detection	V	V	V	V	V	Real Time Detection	V	V	
	AI-Powered Search	Scene Search, AI Hub (Deep Search for people and vehicle, Event Insights, Text Search powered by VLM, Profile, Re-Search, License-Plate)								

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VIVOTEK INC.

6F, No.192, Lien-Cheng Rd., Chung-Ho,
New Taipei City 23553, Taiwan

+886-2-8245-5282

VIVOTEK USA

2050 Ringwood Avenue, San Jose,
CA 95131, USA

+1-408-773-8686

VIVOTEK EMEA

Zandsteen 15, 2132 MZ Hoofddorp,
The Netherlands

+1-408-773-8686

VIVOTEK Japan

〒108-0023 東京都港区芝浦4丁目
11ー25デルタ田町本社ビル6F

+81-3-6811-5460

VIVOTEK LATAM

Av. Pdte. Masarik No.101, Piso 10
Oficina 1002, Polanco V Seccion,
11560, Miguel Hidalgo, CDMX

+52-55-5531-6669



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