# PRODUCT BROCHURE

IP Surveillance Solutions

2021 H1 EN

# Making Society's Most Trusted Intelligent Surveillance Solutions

VIVOTEK Inc. (TAIEX: 3454) is a global, R&D-driven IP surveillance solutions developer that aims to provide the most trusted intelligent surveillance solutions to society. Due to the company's expansive technological capabilities in image and audio, distributors and system integrators count on VIVOTEK to address end users' needs for intelligent security, control, and management solutions. The company specializes in IP cameras, network video recorders, video management software, and intelligent edge AI video analytics.

Founded in Taiwan in 2000, VIVOTEK has formed strategic alliances worldwide, and works with over 180 authorized distributors across more than 100 countries. The company has established offices in the U.S., the Netherlands, India, Mexico, and Japan. For more information, please visit www.vivotek.com.
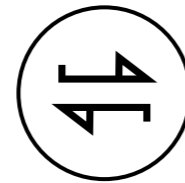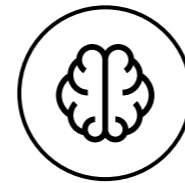
VIVOTEK CONVERGENCE of ...
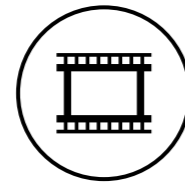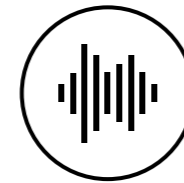
VIdeo   **VO**ice   c**O**mmunication   **TEK**nology

Environmental Commitment

With the increasing environmental challenges of our time, VIVOTEK is deeply aware of the importance of coexisting with the environment for sustainable development. VIVOTEK has implemented a comprehensive, eco-friendly manufacturing policy applied to the product design, component selection, production, quality testing, packaging and shipping processes, effectively minimizing our carbon footprint on the environment. Together, we can be responsible stewards of a vibrant and sustainable future.

Quality Certifications

Green Design Guidelines

- **HSF**   Eliminating the use of hazardous substances
- **WEEE**   Easy disassembly and recycling
- **ErP**   Eco-design

Contents

Advanced Technology

Smart Stream III

VIVOTEK Smart Stream III combines Smart Codec, Dynamic Intra Frame Period, Scene Awareness and Smart FPS technologies to enable the cameras to optimize quality for desired regions and automatically adjust encoding, maximizing bandwidth usage efficiency and lowering storage requirements while maintaining high image quality.

Bit rate

Bandwidth Saving more than

90%

H.264   H.265 + Smart Stream III
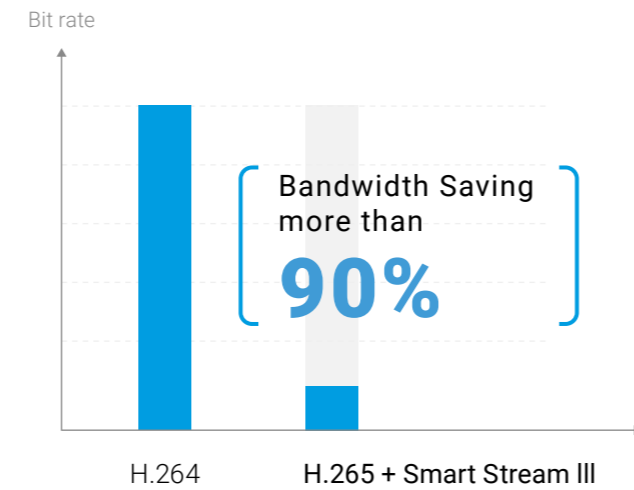
Security at the Edge
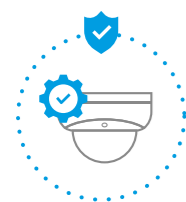
Secure Boot

Secure boot is a mechanism that protects the firmware of the product installed by VIVOTEK. During the camera boot up process, secure boot ensures that unauthenticated code is rejected and protects the camera system from attacks or infections by malicious external code.
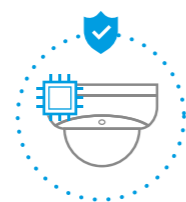
Signed Firmware

VIVOTEK's signed firmware requires a digital signature in the firmware and verification of the signature by VIVOTEK, thereby ensuring that users can trust the firmware has not been tampered with. A device with signed firmware can validate the firmware before allowing installation.

Smart IR II

Adaptive IR

The best possible IR image via adjusting IR illuminators to the scene (simultaneously or individually).

- Independent IR control for regional illumination
- Background clarity
- Automatical IR dimming
- Reduce glaring hotspots or underexposed dark regions

Zone 1
Zone 4   Zone 5   Zone 2
Zone 3
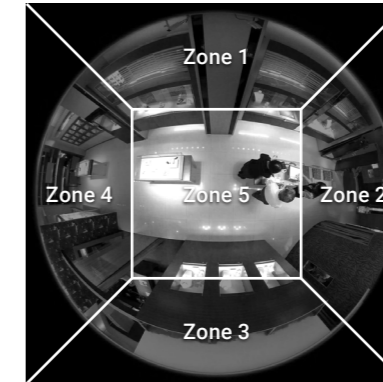
Vari-Angle IR

Automatic IR angle adjustment to the optical zoom provides consistent IR images in all fields of view.

- Effortless IR angle adjustment
- Wide coverage of field of view
- No IR hot-spot issues
- Long-range IR illumination

Before   After

Conventional Illumination   Varifocal Illumination

Zoomed-in FOV
Fixed IR

Zoomed-in FOV
25m 50m 100m   250m
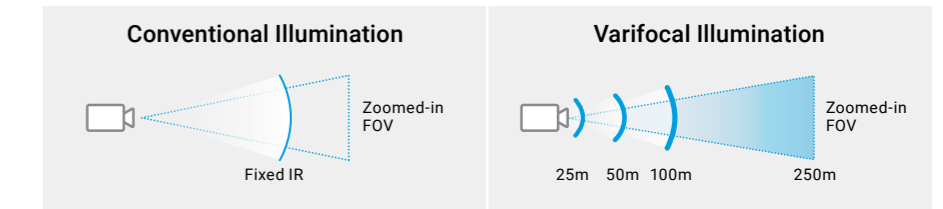
SNV II

SNV stands for Supreme Night Visibility. VIVOTEK SNV II-label products incorporate carefully selected quality optical components and sophisticated image signal processing algorithms to reproduce high quality color images, even in very low-light conditions.

Before   After

Instal

Various Helpf

Installation-fri
Modular Mec

VIVOTEK's brand new
than ever. With the m
the service and upgra

USB Adapter ● Wi-Fi Dongle

iViewer

Direct Network Access for
Installation via
USB Wi-Fi Adapter

Before | After
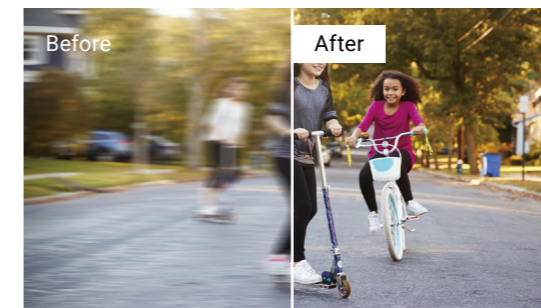
Speed Focus
for Clear Image Around
the Clock

Before | After

Automatic IR Angle Adjustment
for Best Possible
IR Image

Pixel Counter

Window 1 (H) x (V)
Stream1: 500x270
Stream2: 76x84
Stream3: 930x560
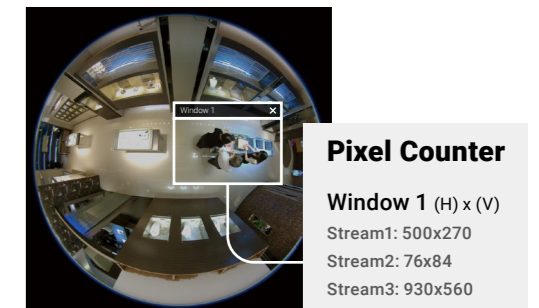
Visual Pixel Calculator
for Handy Operational
Requirements Achievement

* Available on selected models

Security within Security

Cybersecurity Management Solution

NVR

VAST 2
Substation

VAST 2

VIVOTEK

User

TREND
MICRO
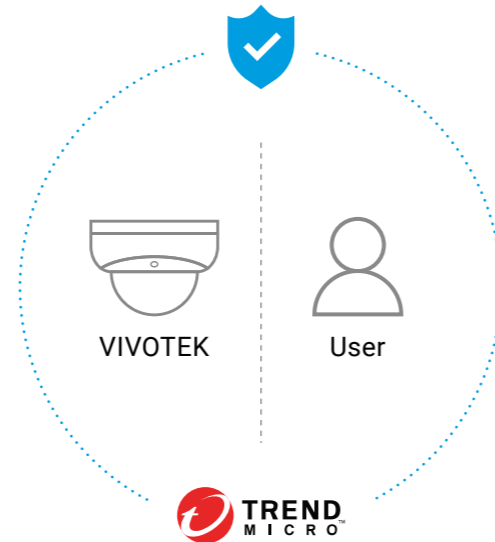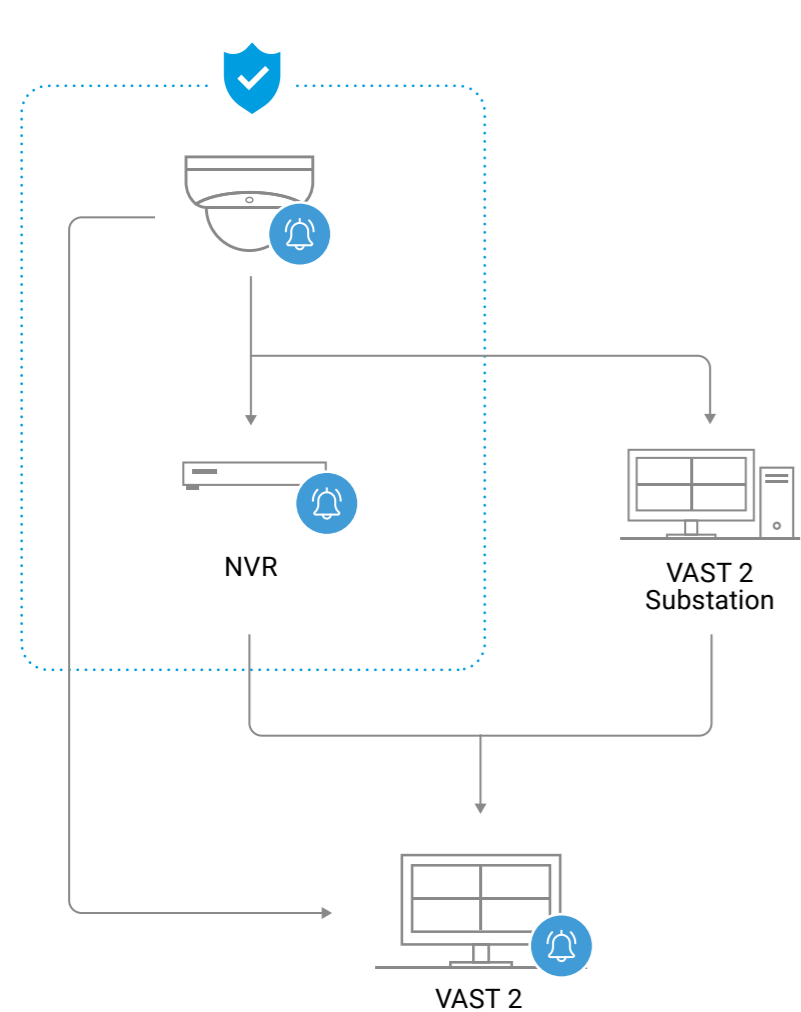
VIVOTEK's cybersecurity assurance efforts are built into the lifecycle of its products, including development, verification, manufacturing, delivery and service. We are constantly evaluating and enhancing our cybersecurity efforts in order to provide our valued customers with the highest quality and most reliable products. By cooperating with the world-renowned cybersecurity company, Trend Micro, and announcing the hardening procedure to users, VIVOTEK is committed to helping minimize and stop such events to our customers and VIVOTEK products.

Multi-Layer Protection Solution for Surveillance Cameras

|	
Random username / password login attack	Brute Force Attack Detection
Botnet is implanted due to weak password or vulnerability	Intrusion Detection and Prevention
Camera is exposed to the risk of new vulnerability	Instant Damage Control
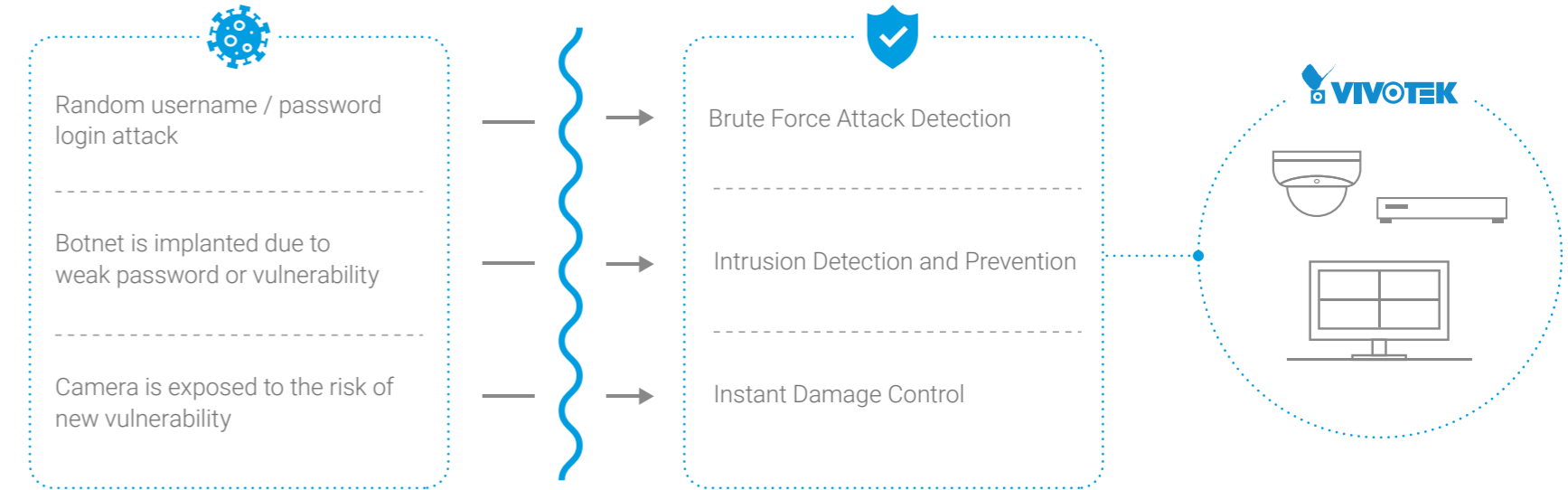
Multi-Layer Protection with Trend Micro IoT Security

Multi-Layer Protection including Brute Force Attack Detection, Intrusion Detection and Prevention, and Instant Damage Control will automatically secure your network system with the latest signature upgrades.

Cybersecurity Alarm Management with Instant Alerts

Once event notifications in network cameras and VAST 2 VMS have been set up, VIVOTEK's surveillance solution will be immediately alerted when cyberattacks occur.
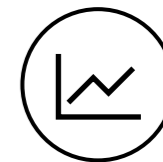
Event Reports with Cyber Risk Dashboard

Quickly know attack trend and status, and acquire attack information in order to diagnose your network promptly on VIVOTEK's VAST 2 VMS and NVRs.

Video Content Analysis

Deep Learning Technology

Smart Motion Detection

People Counting

Intrusion Detection

Loitering Detection

Line Crossing Detection

Unattended Object Detection

Missing Object Detection

Face Detection

Crowd Detection

Running Detection
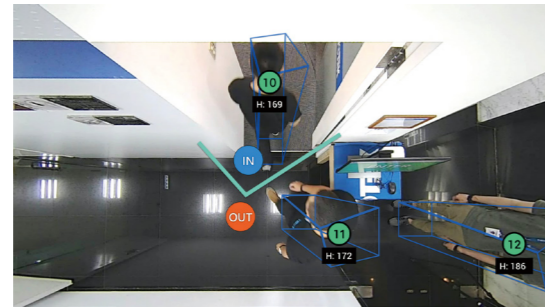
3D Counting

VIVOTEK offers high-accuracy visual counting solutions for retail and security intelligence.

RECOMMENDED

Retail

Accurately obtain people-counting data and optimize management decisions. With the further capability of stitching multiple counting cameras together, users can efficiently manage systems covering expansive floor plans.

Transport

3D Automatic Passenger Counting (APC) is purpose-built for onboard rolling stock and transit vehicle applications, empowering users to receive valuable passenger-flow data for route schedule and ticketing optimization.

SC8131

SC8132

SC8133
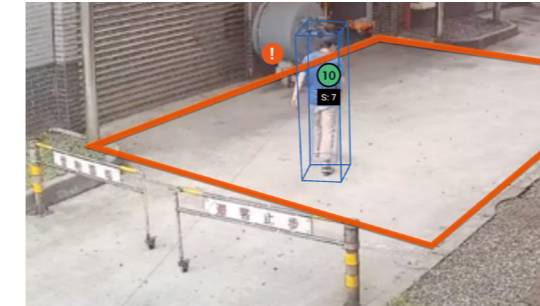
Smart VCA

The on-board Smart VCA suite includes 8 advanced video analytics, it allows the smart-edge cameras to offer advanced accuracy in people and object detections, the rich rules and easy configurations are provided to meet diverse user application requirements.

- Crowd Detection
- Line Crossing Detection
- Intrusion Detection
- Loitering Detection
- Missing Object Detection
- Unattended Object Detection
- Face Detection
- Running Detection
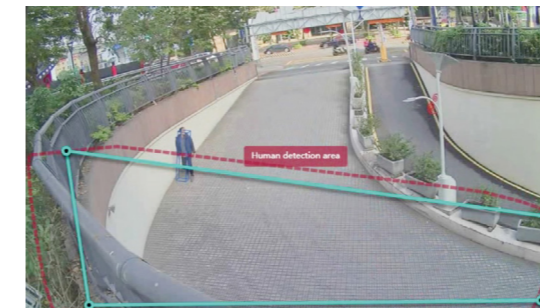
Smart Motion Detection

Recognize human activities with precision, with no negative impact from change of lighting, adverse weather, or other factors. Smart Motion Detection results in a significant reduction of false alarms and the continued intelligent protection of people.

Smart Tracking

Smart Tracking is an innovative Deep Learning Technology for VIVOTEK's new PTZ cameras designed to increase effectiveness when automatically tracking people in motion. It is especially effective for applications and times in which individuals require special attention, such as bank vaults, or parking garages after working hours.

Network Cameras

Naming Rule
For Network Camera Model

SD	9	3	6	4	-	EH	-	v2
1-2nd	3rd	4th	5th	6th		7th		8th

1-2nd Model Category

Code	Description
CC	Compact Cube Camera
CD	Corner Camera
CU	Camera Unit
FD	Fixed Dome Camera
FE	Fisheye Camera
IB	Bullet Camera
IP	Box Camera
IT	Turret Dome Camera
IZ	Zoom Lens Camera
MA	Multiple Adjustable Views Camera
MD	Mobile Dome Camera
MS	Multiple Sensor Camera
SC	Stereo Camera
SD	Speed Dome Camera
TB	Thermal Bullet Camera
VC	Video Core
VS	Video Server

3rd A/V Type

NO.	Description
8	H.264 / MJPEG
9	H.265 / H.264 / MJPEG

4th VC Series - Amount of Channel

NO.	Description
1 - 9	1 - 9 Channel

4th IP Camera Type

NO.	Description
1	Indoor IP Camera
3	Outdoor IP Camera
5	Mobile Certified

5th IP Camera - Resolution

NO.	Description
1	≥ 10MP CMOS Sensor
2	≥ 20MP CMOS Sensor
3	≥ 30MP CMOS Sensor
4	≥ 40MP CMOS Sensor
5	≥ 50MP CMOS Sensor
6	≥ 2.0MP CMOS Sensor
7	≥ 3.0MP CMOS Sensor
8	≥ 5.0MP CMOS Sensor
9	≥ 8.0MP CMOS Sensor

6th Running Number

NO.	Description
-	1 - 99

7th Extension/Feature

NO.	Description
D	DC Power Input
E	Extended Temperature ≤ -40°C
H	High Dynamic Range (Wide Dynamic Range)
L	Lite
LPC	License Plate Capture
LPR	Embedded License Plate Recognition Software
M	Manual Focal
N	940nm IR LED
P	P-iris (Box Cameras)
T	Remote Focus i-CS (Box Cameras)
V	Outdoor Vandal Proof

8th Digit Extension

NO.	Description
v	1 - 99
A	A-Z
O	OSSA

180° Panoramic Cameras

End to End Coverage with VIVOTEK Panoramic Cameras
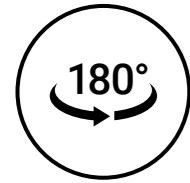
180° Views

Through a single fisheye lens or multiple sensors stitched together, VIVOTEK panoramic IP cameras provide excellent 180° coverage to cover open areas

WDR Pro Technology

WDR Pro technology enables image clarity in high contrast environments, essential for panoramic cameras' super-wide FOV

Variety

VIVOTEK offers 180° panoramic coverage in small and large form factors, ensuring a solution for all situations

RECOMMENDED

MS9321-EHV

- 20MP 7680x2560
- 30m Smart IR II
- IP66/IK10
- WDR Pro
- Smart VCA

CC9381-HV

- 5MP 2560x1920
- 15m Smart IR
- IP66/IK10
- WDR Pro
- Discrete Design

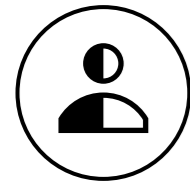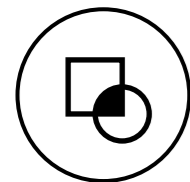|	180° Panoramic Cameras		
	20 Megapixel	8 Megapixel	5 Megapixel
Model	**MS9321-EHV**	**MS9390-HV**	**CC9380-HV**	**CC9381-HV**
Camera Features				
Sensor Type	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS
Lens Type/ Focal Length/ F-number	Fixed / 3.8 mm/ F1.8	Fixed / 2.8 mm / F1.2	Fixed/ 1.45 mm/ F2.2	Fixed / 1.45 mm/ F2.2
Field of View	180° (H) 65° (V)	180° (H) 50° (V)	180° (H) 120° (V)	180° (H) 120° (V)
Day/Night	●	●	●	●
IR Illuminators	30 m, IR LED*4	20 m	-	15 m
Min. Illumination	0.095 lux @ F1.8 (Color) 0.005 lux @ F1.8 (B/W) 0 lux with IR illumination on	0.05 lux @ F1.2 (Color) 0.01 lux @ F1.2 (B/W) 0 lux with IR illumination on	0.11 lux @ F2.2 (Color) 0.01 lux @ F2.2 (B/W)	0.11 lux @ F2.2 (Color) 0.01 lux @ F2.2 (B/W) 0 lux with IR illumination on
Max. Resolution/ Frame Rate	30 fps @ 7680x2560 (WDR on)	30 fps @ 4512x1728	20 fps @ 2560x1920 (WDR on) 30 fps @ 2560x1920 (WDR off)	20 fps @ 2560x1920 (WDR on) 30 fps @ 2560x1920 (WDR off)
WDR Technology*	WDR Pro	WDR Pro	WDR Pro	WDR Pro
On-board Storage	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Video/ Audio/ Network				
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Audio	Two-way Audio (Full duplex)	One-way Audio	One-way Audio	One-way Audio
Digital Input/ Output	1/1	-	-	-
ONVIF	Profile G/S/T	Profile G/S/T	Profile G/S/T	Profile G/S/T
Solution Integration				
VIVOCloud	-	-	-	-
Security	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security
VCA	Smart Motion Detection, Smart VCA	Smart Motion Detection, Smart VCA	-	-
General				
Power Input/ Consumption	AC 24V/ PoE Max. 24.65 W	PoE/ Max. 15.2 W	PoE/ Max. 5 W	PoE/ Max. 9.1 W
Housing	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10
Dimensions	308 x 167 x 130 mm (w/o junction box) 369 x 167 x 132 mm (w/ junction box)	Ø165 x 112 x 97 mm (w/o sunshield) Ø165 x 119 x 100 mm (w/ sunshield)	115 x 65 x 59 mm	159.9 x 71.92 x 60.2 mm (Dome to rear panel), 39.2 mm (Flat to rear panel)
Operating Temperature	-40°C ~ 60°C (-40°F ~ 140°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F)

NEW

* All specifications are subject to change without notice.

*WDR Pro Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is between 100dB and 140dB. *WDR Pro II Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is higher than 140dB. *SNV Supreme Night Visibility, by professionally integrating superior optical components and sophisticated video algorithms, SNV cameras present Supreme Night Visibility in low light conditions. *i-CS Intelligent CS-mount lenses can be used for add-on value functions, ex. remote zoom focus control, distortion correction, shading correction, etc. *AEB (Auto Exposure Bracketing) Provides multiple streams with different exposure settings to cover over-exposed and under-exposed scenarios.
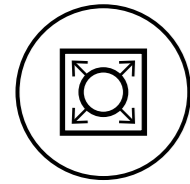
360° Fisheye Cameras

A Whole Different Perspective with Fisheye Cameras
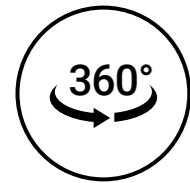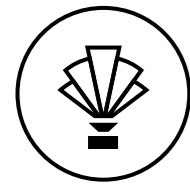
360° Views

With fisheye lenses, VIVOTEK fisheye IP cameras can cover 360° with no blind spots, excellent for full situational coverage

Dewarping Technology

VIVOTEK fisheye lens dewarping technology enables users to target specific areas with different viewing modes

Smart IR II*

With Smart IR II infrared illuminators, users can see in all directions up to 20m in total darkness

AI-Powered Video Analytics*

VIVOTEK's Smart VCA is a suite of multiple analytics that provide faster and more accurate detection for various scenarios

RECOMMENDED

FE9382-EHV-v2

- 6MP 2048x2048
- 20m Smart IR II
- IP66/IK10/NEMA 4X
- WDR Pro
- Smart VCA

FE9391-EV

- 12MP 2816x2816
- 20m Smart IR II
- IP66/IK10
- WDR Pro
- Smart VCA

	360° Fisheye Cameras				
	12 Megapixel		5 Megapixel		
					NEW
Model	**FE9191**	**FE9391-EV**	**FE8182**	**FE9180-H**	**FE9380-HV**
Camera Features					
Sensor Type	1/1.7" Progressive CMOS in 4000x3000	1/1.7" Progressive CMOS in 4000x3000	1/3.2" progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS
Lens Type/ Focal Length/ F-number	Fixed/ 1.29 Ømm/ F2.2	Fixed/ 1.29 Ømm/ F2.2	Fixed/ 1.05 Ømm/ F2.0	Fixed/ 1.16 Ømm/ F2.25	Fixed/ 1.16 Ømm/ F2.25
Field of View	180° (H) 180° (V)	180° (H) 180° (V)	180° (H) 180° (V)	180° (H) 180° (V)	180° (H) 180° (V)
Day/Night	●	●	-	-	●
IR Illuminators	-	20 m, IR LED*6	-	-	10 m, IR LED*4
Min. Illumination	0.18 lux @ F2.2 (Color) <0.001 lux @ F2.2 (B/W)	0.18 lux @ F2.2 (Color) 0.001 lux @ F2.2 (B/W) 0 lux with IR illumination on	0.6 lux @ F2.0 (Color)	0.25 lux @ F2.25 (Color), 50IRE 0.13 lux @ F2.25 (Color), 30IRE	0.05 lux @ F2.25 (Color) <0.005 lux @ F2.25 (B/W) 0 lux with IR illumination on
Max. Resolution/ Frame Rate	30 fps @ 2816x2816	30 fps @ 2816x2816	15 fps @ 1920x1920	15 fps @ 1920x1920	30 fps @ 1920x1920
WDR Technology*	WDR Pro	WDR Pro	WDR Enhanced	WDR Pro	WDR Pro
On-board Storage	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Video/ Audio/ Network					
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Audio	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)	One-way Audio	One-way Audio	One-way Audio
Digital Input/ Output	1/1	1/1	-	-	-
ONVIF	Profile G/S/T	Profile G/S/T	Profile S/G	Profile S/G	Profile G/S/T
Solution Integration					
VIVOCloud	-	-	●	●	●
Security	Trend Micro IoT Security	Trend Micro IoT Security	-	-	Trend Micro IoT Security
VCA	Smart Motion Detection, Smart VCA	Smart Motion Detection, Smart VCA	-	-	-
General					
Power Input/ Consumption	DC 12V/ PoE Max. 6.49 W	DC 12V/ PoE Max. 25 W	PoE/ Max. 3 W	PoE/ Max. 3.6 W	PoE/ Max. 12 W
Housing		IP66, IK10	-	-	IP66, IK10
Dimensions	Ø139 x 37 mm	Ø160 x 62 mm	Ø60 x 102 mm	Ø94 x 39 mm	Ø150 x 68.2 mm
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-10°C ~ 40°C (14°F ~ 104°F)	-10°C ~ 50°C (14°F ~ 122°F)	-30°C ~ 60°C (-22°F ~ 140°F)

* Available on selected models

* All specifications are subject to change without notice.

360° Fisheye Cameras

5 Megapixel

NEW

Model	FE9382-EHV-v2	FE9582-EHNV
Camera Features		
Sensor Type	1/1.8" Progressive CMOS in 3840x2160	1/1.8" Progressive CMOS in 3096x2094
Lens Type/ Focal Length/ F-number	Fixed/ 1.245 Ømm/ F1.6	Fixed/ 1.47 Ømm/ F2.2
Field of View	180° (H) 180° (V)	180° (H) 180° (V)
Day/Night	●	●
IR Illuminators	20 m, IR LED*4	10 m, 940 nm, IR LED*6
Min. Illumination	0.065 lux @ F1.6 (Color) <0.001 lux @ F1.6 (B/W) 0 lux with IR illumination on	0.18 lux @ F2.2 (Color) 0.001 lux @ F2.2 (B/W) 0 lux with IR illumination on
Max. Resolution/ Frame Rate	30 fps @ 2048x2048	H.265/H.264: 30 fps @ 1920x1920 MJPEG: 12 fps @ 1920x1920
WDR Technology*	WDR Pro	WDR Pro
On-board Storage	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Video/ Audio/ Network		
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Audio	Two-way Audio (Full duplex) (optional accessory)	Two-way Audio (Full duplex)
Digital Input/ Output	1/1 (optional accessory)	1/1
ONVIF	Profile G/S/T	Profile S/G
Solution Integration		
VIVOCloud	-	●
Security	Trend Micro IoT Security	-
VCA	Smart VCA	-
General		
Power Input/ Consumption	PoE/ Max. 9.8 W	DC 12V/ PoE (M12a connector) Max. 20 W
Housing	IP66, IK10, NEMA 4X	IP66, IK10
Dimensions	Ø150 x 68.2 mm	Ø160 x 51 mm
Operating Temperature	-40°C ~ 55°C (-40°F ~ 131°F)	-40°C ~ 55°C (-40°F ~ 131°F)

* All specifications are subject to change without notice.
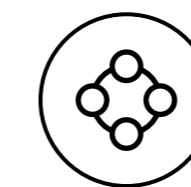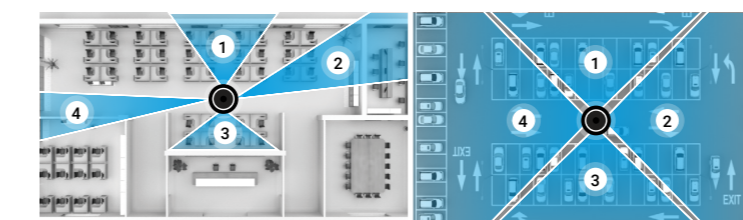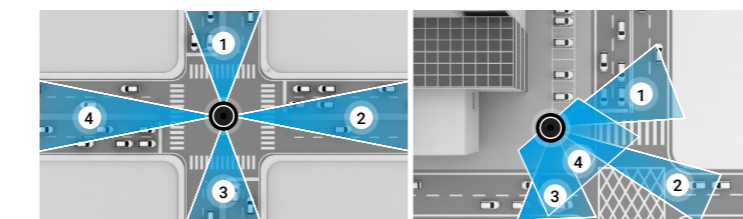
Multi-Sensor Cameras

Comprehensive Video Coverage from A Single Mounting Point

Multi-Sensor

VIVOTEK Multi-Sensor models allows users the ability to target 4 regions from a single IP address, 4 cameras in 1

Traffic

Corners

Interiors

Parking

Multi-Sensor Cameras

20 Megapixel

Model	MA9321-EHTV	MA9322-EHTV
Camera Features		
Sensor Type	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS
Lens Type/ Focal Length/ F-number	Motorized/ 3.7 ~ 7.7 mm/ F1.9 ~ F2.9	Motorized/ 3.7 ~ 7.7 mm/ F1.9 ~ F2.9
Field of View	84.4° ~ 40.0° (H) 59.8° ~ 28.6° (V)	84.4° ~ 40.0° (H) 59.8° ~ 28.6° (V)
Day/Night	●	●
IR Illuminators	-	30 m
Min. Illumination	0.095 lux @ F1.9 (Color) 0.005 lux @ F1.9 (B/W)	0.095 lux @ F1.9 (Color) 0.005 lux @ F1.9 (B/W) 0 lux with IR illumination on
Max. Resolution/ Frame Rate	30 fps @ 2688x1920	30 fps @ 2688x1920
WDR Technology*	WDR Pro	WDR Pro
On-board Storage	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Video/ Audio/ Network		
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Audio	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)
Digital Input/ Output	1/1	1/1
ONVIF	Profile S	Profile S
Solution Integration		
VIVOCloud	-	-
Security	Trend Micro IoT Security	Trend Micro IoT Security
VCA	-	-
General		
Power Input/ Consumption	AC 24V/PoE Max. 24 W	AC 24V/ PoE Max. 25.5 W
Housing	IP66, IK10	IP66, IK10
Dimensions	Ø210 x 111 mm Ø210 x 97 mm (w/o cover plate)	Ø267x114 mm Ø275 x 118 mm (w/ bracket)
Operating Temperature	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 60°C (-40°F ~ 140°F)

* All specifications are subject to change without notice.

*WDR Pro Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is between 100dB and 140dB. *WDR Pro II Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is higher than 140dB. *SNV Supreme Night Visibility, by professionally integrating superior optical components and sophisticated video algorithms, SNV cameras present Supreme Night Visibility in low light conditions. *i-CS Intelligent CS-mount lenses can be used for add-on value functions, ex. remote zoom focus control, distortion correction, shading correction, etc. *AEB (Auto Exposure Bracketing) Provides multiple streams with different exposure settings to cover over-exposed and under-exposed scenarios.
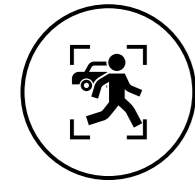
Fixed Dome Cameras

Supporting An Array of Environments From Indoor to Outdoor, From Small Retail Shops to Smart City Surveillance

AI-Powered Video Analytics*
VIVOTEK's Smart VCA is a suite of multiple analytics that provide faster and more accurate detection for various scenarios
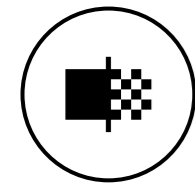
Smart Motion Detection*
With brilliant precision of human activity detection and intelligent neglect of background changes in a scene, VIVOTEK's SMD minimizes the number of false alarms effectively

Robust Cyber Protection
Empowered with firmware encryption and utilizing the expertise of Trend Micro, VIVOTEK provides robust cyber protection with affordable prices, catering to most user scenarios

Significantly Lower Bandwidth via Smart Stream III
Fully compatible with H.264 and H.265, VIVOTEK's Smart Stream III allows reducing bandwidth consumption up to 90%

RECOMMENDED

FD9367-EHTV-v2

- 2MP, 60fps @ 1920x1080
- WDR Pro
- Smart VCA
- Installation-friendly Design
- Secure Boot Supported
- Signed Firmware Supported

NEW

FD9166-HN

- 2MP 30fps @ 1920x1080
- Invisible IR
- WDR Pro
- Compact Size

* Available on selected models

* All specifications are subject to change without notice.

	Fixed Dome Cameras				
	8 Megapixel	8 Megapixel NEW	5 Megapixel		
Model	**FD9391-EHTV**	**FD9392-EHTV-O**	**FD9380-H**	**IT9380-H**	**FD9187-H**
Camera Features					
Sensor Type	1/2" Progressive CMOS	1/1.8" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS
Lens Type/ Focal Length/ F-number	Motorized/ 3.9 ~ 10 mm / F1.5 ~ F2.7	Motorized/ 3.9 ~ 10 mm / F1.5 ~ F2.7	Fixed/ 2.8 mm or 3.6 mm / F2.0	Fixed/ 2.8 mm or 3.6mm /F2.0	Fixed/ 2.8 mm/ F2.0
Field of View	119° ~ 45° (H) 63° ~ 25° (V)	119° ~ 45° (H) 63° ~ 25° (V)	103° (H), 76° (V) [FD9380-H (2.8mm)] 76° (H), 59° (V) [FD9380-H (3.6mm)]	103° (H), 76° (V) [IT9380-H (2.8mm)] 76° (H), 59° (V) [IT9380-H (3.6mm)]	103° (H) 76° (V)
Day/Night	●	●	●	●	●
IR Illuminators	50 m, IR LED*5	50 m, IR LED*5	30 m, IR LED*2	30 m, IR LED*2	30 m, IR LED*2
Min. Illumination	0.02 lux @ F1.5 (Color) 0.01 lux @ F1.5 (B/W) 0 lux with IR illumination on	0.28 lux @ F1.5 (Color) 0.005 lux @ F1.5 (B/W) 0 lux with IR illumination on	0.03 lux @ F2.0 (Color) <0.005 lux @ F2.0 (B/W) 0 lux with IR illumination on	0.03 lux @ F2.0 (Color) <0.005 lux @ F2.0 (B/W) 0 lux with IR illumination on	0.06 lux @ F2.0 (Color) <0.01 lux F2.0 (B/W) 0 lux with IR illumination on
Max. Resolution/ Frame Rate	30 fps @ 3840x2160 120 fps @ 1920x1080	30 fps @ 3840x2160	20 fps @ 2560x1920	20 fps @ 2560x1920	30 fps @ 2560x1920 60 fps @ 1920x1080
WDR Technology*	WDR Pro	TBD	WDR Pro	WDR Pro	WDR Pro
On-board Storage	MicroSD/SDHC/SDXC card slot	TBD	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Video/ Audio/ Network					
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Dual-Codec (H.265/H.264)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Audio	Two-way Audio (Full duplex)	TBD	-	One-way Audio	Two-way Audio (Full duplex)
Digital Input/ Output	1/1	1/1	-	-	1/1
ONVIF	Profile G/S/T	TBD	Profile G/S/T	Profile G/S/T	Profile G/S/T
Solution Integration					
VIVOCloud	●	-	-	-	●
Security	Signed firmware, Trend Micro Security	Secure boot	-	-	Signed firmware, Trend Micro Security
VCA	Smart Motion Detection, Smart VCA	Supported by S&ST APPs	-	-	Smart Motion Detection, Smart VCA
General					
Power Input/ Consumption	AC 24V / DC 12V /PoE Max. 25 W	AC 24V/ DC 12V/ PoE Max. 25 W (Heater on)	PoE Max. 6.49 W (IR on) Max. 3.69 W (IR off)	PoE Max. 6 W (IR on) Max. 3.31 W (IR off)	AC 24V (optional) /DC 12V /PoE Max. 8.1 W
Housing	IP66, IP67, IK10, NEMA 4X	IP66, IP67, IK10, NEMA 4X	IP66, IK10(housing)	IP66, IK10(Metal Housing)	-
Dimensions	Ø155 x 138 mm	Ø155 x 138 mm	Ø117.2 x 89.6 mm	Ø105 x 82.5 mm	Ø139 x 104 mm
Operating Temperature	-50°C ~ 60°C (-58°F ~ 140°F)	-50°C ~ 60°C (-58°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-10°C ~ 50°C (14°F ~ 122°F)

Fixed Dome Cameras

5 Megapixel

Model	FD9187-HT-A	FD9387-HV/EHV	FD9387-HTV-A/EHTV-A	FD9388-HTV	IT9388-HT
Camera Features					
Sensor Type	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS
Lens Type/ Focal Length/ F-number	Motorized/ 2.7 ~ 13.5 mm/ F1.4 ~ F2.8	Fixed/ 2.8 mm/ F2.0	Motorized/ 2.7 ~ 13.5 mm/ F1.4 ~ F2.8	Motorized/ 2.8 ~ 12 mm/ F1.4 ~ F2.8	Motorized/ 2.8 ~ 12 mm/ F1.4 ~ F2.8
Field of View	100° ~ 30° (H) 72° ~ 23° (V)	103° (H) 76° (V)	100° ~ 30° (H) 72° ~ 23° (V)	88° ~ 30° (H) 65° ~ 23° (V)	88° ~ 30° (H) 65° ~ 23° (V)
Day/Night	●	●	●	●	●
IR Illuminators	50 m, IR LED*4	30 m, IR LED*2	50 m, IR LED*4	30 m, IR LED*2	30 m, IR LED*2
Min. Illumination	0.075 lux @ F1.4 (Color) <0.01 lux @ F1.4 (B/W) 0 lux with IR illumination on	0.06 lux @ F2.0 (Color) <0.01 lux F2.0 (B/W) 0 lux with IR illumination on	0.075 lux @ F1.4 (Color) <0.01 lux @ F1.4 (B/W) 0 lux with IR illumination on	0.035 lux @ F1.4 (Color) <0.005 lux @ F1.4 (B/W) 0 lux with IR illumination on	0.035 lux @ F1.4 (Color) <0.005 lux @ F1.4 (B/W) 0 lux with IR illumination on
Max. Resolution/ Frame Rate	30 fps @ 2560x1920 60 fps @ 1920x1080	30 fps @ 2560X1920 60 fps @ 1920x1080	30 fps @ 2560x1920 60 fps @ 1920x1080	20 fps @ 2560x1920	20 fps @ 2560x1920
WDR Technology*	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro
On-board Storage	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Video/ Audio/ Network					
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Audio	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)	One-way Audio	One-way Audio
Digital Input/ Output	2/2	1/1	2/2	-	-
ONVIF	Profile S/G	Profile G/S/T	Profile S/G	Profile G/S/T	Profile G/S/T
Solution Integration					
VIVOCloud	-	●	●	-	-
Security	Trend Micro IoT Security	Signed firmware, Trend Micro Security	Trend Micro IoT Security	-	-
VCA	Smart Motion Detection, Smart VCA	Smart Motion Detection, Smart VCA	Smart Motion Detection, Smart VCA	-	-
General					
Power Input/ Consumption	AC 24V (optional) /DC 12V /PoE Max. 12 W	AC 24V/ DC 12V/ PoE FD9387-HV: Max. 8.7 W (IR off) FD9387-EHV: Max. 21.4 W	AC 24V (optional) /DC 12V /PoE FD9387-HTV-A: Max. 12 W FD9387-EHTV-A: Max. 22 W	PoE Max. 12.95 W (IR on) Max. 9 W (IR off)	PoE Max. 9.8 W (IR on) Max. 6.29 W (IR off)
Housing	-	IP66, IP67, IK10	IP66, IP67, IK10	IP66, IK10	IP66, IK10(Metal Housing)
Dimensions	Ø139 x 104 mm	Ø155 x 104 mm	Ø155 x 104 mm	Ø133.3 x 103.8 mm	Ø120 x 90.5 mm
Operating Temperature	-10°C ~ 45°C (14°F ~ 113°F)	-30°C ~ 60°C (-22°F ~ 140°F) (-HV) -50°C ~ 60°C (-58°F ~ 140°F) (-EHV)	-30°C ~ 60°C (-22°F ~ 140°F) (-HTV-A) -50°C ~ 60°C (-58°F ~ 140°F) (-EHTV-A)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)

Fixed Dome Cameras

5 Megapixel
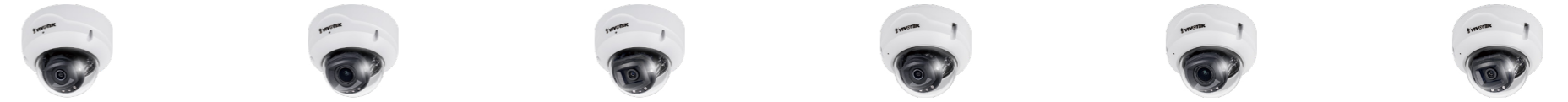
Model	FD9189-H	FD9189-HM	FD9189-HT	FD9389-HV/EHV	FD9389-HMV/EHMV	FD9389-HTV/EHTV
Camera Features						
Sensor Type	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS
Lens Type/ Focal Length/ F-number	Fixed/ 2.8 mm / F2.0	Manual Focus / 2.8 ~ 12 mm/ F1.85 ~ F2.9	Motorized/ 3.7 ~ 7.7 mm/ F1.9 ~ F2.9	Fixed/ 2.8 mm / F2.0	Manual Focus / 2.8 ~ 12 mm/ F1.85 ~ F2.9	Motorized/ 3.7 ~ 7.7 mm/ F1.9 ~ F2.9
Field of View	103° (H) 76° (V)	100° ~ 30° (H) 72° ~ 23° (V)	80° ~ 38° (H) 60° ~ 29° (V)	103° (H) 76° (V)	100° ~ 30° (H) 72° ~ 23° (V)	80° ~ 38° (H) 60° ~ 29° (V)
Day/Night	●	●	●	●	●	●
IR Illuminators	30 m, IR LED*4	30 m, IR LED*4	30 m, IR LED*4	30 m, IR LED*4	30 m, IR LED*4	30 m, IR LED*4
Min. Illumination	0.06 lux @ F2.0 (Color) 0.01 lux @ F2.0 (B/W) 0 lux with IR illumination on	0.06 lux @ F1.85 (Color) 0.01 lux @ F1.85 (B/W) 0 lux with IR illumination on	0.06 lux @ F1.9 (Color) 0.01 lux @ F1.9 (B/W) 0 lux with IR illumination on	0.06 lux @ F2.0 (Color) 0.01 lux @ F2.0 (B/W) 0 lux with IR illumination on	0.06 lux @ F1.85 (Color) 0.01 lux @ F1.85 (B/W) 0 lux with IR illumination on	0.06 lux @ F1.9 (Color) 0.01 lux @ F1.9 (B/W) 0 lux with IR illumination on
Max. Resolution/ Frame Rate	30 fps @ 2560x1920 60 fps @ 1920x1080	30 fps @ 2560x1920 60 fps @ 1920x1080	30 fps @ 2560x1920 60 fps @ 1920x1080	30 fps @ 2560x1920 60 fps @ 1920x1080	30 fps @ 2560x1920 60 fps @ 1920x1080	30 fps @ 2560x1920 60 fps @ 1920x1080
WDR Technology*	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro
On-board Storage	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Video/ Audio/ Network						
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Audio	One-way Audio	One-way Audio	One-way Audio	One-way Audio	One-way Audio	One-way Audio
Digital Input/ Output	-	-	-	-	-	-
ONVIF	Profile G/S/T	Profile G/S/T	Profile G/S/T	Profile G/S/T	Profile G/S/T	Profile G/S/T
Solution Integration						
VIVOCloud	●	●	●	●	●	●
Security	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security
VCA	Smart Motion Detection, Smart VCA	-	Smart Motion Detection, Smart VCA	Smart Motion Detection, Smart VCA	-	Smart Motion Detection, Smart VCA
General						
Power Input/ Consumption	PoE Max. 8.7 W (IR on) Max. 5.7 W (IR off)	PoE Max. 8.3 W (IR on) Max. 5.3 W (IR off)	PoE Max. 8.7 W (IR on) Max. 5.7 W (IR off)	PoE FD9389-HV: Max. 8.7 W (IR on) Max. 5.7 W (IR off) FD9389-EHV: Max. 21.8 W (Heater on) Max. 8.7 W (Heater off)	PoE FD9389-HMV: Max. 8.3 W (IR on) Max. 5.7 W (IR off) FD9389-EHMV: Max. 21.4 W (Heater on) Max. 8.3 W (Heater off)	PoE FD9389-HTV: Max. 10.45 W (IR on) Max. 7.45 W (IR off) FD9389-EHTV: Max. 23.55 W (Heater on) Max. 10.45 W (Heater off)
Housing	-	-	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10
Dimensions	Ø130 X 95.3 mm	Ø130 X 95.3 mm	Ø130 X 95.3 mm	Ø129 x 93.8 mm	Ø129 x 93.8 mm	Ø129 x 93.8 mm
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-30°C ~ 60°C (-22°F ~ 140°F) (-HV) -50°C ~ 60°C (-58°F ~ 140°F) (-EHV)	-30°C ~ 60°C (-22°F ~ 140°F) (-HMV) -50°C ~ 60°C (-58°F ~ 140°F) (-EHMV)	-30°C ~ 60°C (-22°F ~ 140°F) (-HTV) -50°C ~ 60°C (-58°F ~ 140°F) (-EHTV)

Fixed Dome Cameras

Model	IT9389-H	IT9389-HT	FD9166-HN (NEW)	FD9366-HV (NEW)	FD816CA-HF2
Camera Features	5 Megapixel	5 Megapixel	2 Megapixel	2 Megapixel	2 Megapixel
Sensor Type	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.9" Progressive CMOS	1/2.9" Progressive CMOS	1/2.7" progressive CMOS
Lens Type/ Focal Length/ F-number	Fixed/ 2.8 mm or 3.6 mm/ F2.0	Motorized/ 3.7 ~ 7.7 mm / F1.9 ~ F2.9	Fixed/ 2.8 mm/ F1.8, Fixed/ 3.6mm/ F2.0	Fixed/ 2.8 mm/ F1.8, Fixed/ 3.6mm/ F2.0	Fixed/ 2.8 mm/ F1.8
Field of View	103° (H), 76° (V) [IT9389-H (2.8mm)], 76° (H), 56° (V) [IT9389-H (3.6mm)]	80° ~ 38° (H), 60° ~ 29° (V)	109° (H), 59° (V) [FD9166-HN (2.8mm)], 89° (H), 47° (V) [FD9166-HN (3.6mm)]	108° (H), 60° (V) [FD9366-HV (2.8mm)], 89° (H), 47° (V) [FD9366-HV (3.6mm)]	122° (H), 66° (V)
Day/Night	●	●	●	●	●
IR Illuminators	30 m, IR LED*2	30 m, IR LED*2	10 m, IR LED*4	20 m, IR LED*2	-
Min. Illumination	0.06 lux @ F2.0 (Color), 0.01 lux @ F2.0 (B/W), 0 lux with IR illumination on	0.09 lux @ F1.9 (Color), 0.01 lux @ F1.9 (B/W), 0 lux with IR illumination on	FD9166-HN (2.8mm): 0.07 lux @ F1.8 (Color), 0.01 lux @ F1.8 (B/W), 0 lux with IR illumination on; FD9166-HN (3.6mm): 0.16 lux @ F2.0 (Color), 0.01 lux @ F2.0 (B/W), 0 lux with IR illumination on	FD9366-HV (2.8mm): 0.13 lux @ F1.8 (Color), 0.01 lux @ F1.8 (B/W), 0 lux with IR illumination on; FD9366-HV (3.6mm): 0.15 lux @ F2.0 (Color), 0.01 lux @ F2.0 (B/W), 0 lux with IR illumination on	0.15 lux @ F1.8 (Color), <0.01 lux @ F1.8 (B/W)
Max. Resolution/ Frame Rate	30 fps @ 2560x1920, 60 fps @ 1920x1080	30 fps @ 2560x1920, 60 fps @ 1920x1080	30 fps @ 1920x1080	30 fps @ 1920x1080	30 fps @ 1920x1080
WDR Technology*	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro
On-board Storage	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Video/ Audio/ Network					
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Dual-Codec (H.264/MJPEG)
Audio	One-way Audio	One-way Audio	One-way Audio	One-way Audio	One-way Audio
Digital Input/ Output	-	-	1/0	1/1	1/1
ONVIF	Profile G/S/T	Profile G/S/T	Profile G/S/T	Profile G/S/T	Profile S/G
Solution Integration					
VIVOCloud	●	●	●	●	●
Security	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security	-
VCA	Smart Motion Detection, Smart VCA	Smart Motion Detection, Smart VCA	-	-	-
General					
Power Input/ Consumption	PoE, Max. 5.5 W (IR on), Max. 4.5 W (IR off)	PoE, Max. 9 W (IR on), Max. 8 W (IR off)	PoE/ Max. 5.5 W	PoE/ Max. 5.5 W	PoE/ Max. 3.3 W
Housing	IP66, IK08	IP66, IK08		IP66, IK67, IK10, NEMA 4X	
Dimensions	Ø108 x 79 mm	Ø108 x 79 mm	90 x 50 mm	98 x 54 x 110.8 mm	Ø60 x 115 mm
Operating Temperature	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-10°C ~ 55°C(14°F~ 131°F)	-25°C ~ 60°C (-13°F~ 140°F)	-10°C ~ 45°C (14°F ~ 113°F)

Fixed Dome Cameras

2 Megapixel

Model	FD9360-H	IT9360-H	FD9165-HT-A	FD9365-HTV-A/EHTV-A	FD9167-H	FD9167-HT-v2 (NEW)
Camera Features						
Sensor Type	1/2.9" Progressive CMOS	1/2.9" Progressive CMOS	1/2" Progressive CMOS	1/2" Progressive CMOS	1/2.8" progressive CMOS	1/2.8" progressive CMOS
Lens Type/ Focal Length/ F-number	Fixed/ 2.8 mm or 3.6mm/ F2.0	Fixed/ 2.8 mm or 3.6 mm/ F2.0	Motorized/ 4 ~ 9 mm (2.8 ~ 11.4 mm, equivalent focal length @ 1/2.8)/ F1.3 ~ F2.2	Motorized/ 4 ~ 9 mm (2.8 ~ 11.4 mm, equivalent focal length @ 1/2.8)/ F1.3 ~ F2.2	Fixed/ 2.8 mm/ F1.6	Motorized/ 2.7 ~ 13.5 mm/ F1.4 ~ F2.8
Field of View	109° (H), 59° (V) [FD9360-H (2.8mm)], 81° (H), 44° (V) [FD9360-H (3.6mm)]	109° (H), 59° (V) [IT9360-H (2.8mm)], 81° (H), 44° (V) [IT9360-H (3.6mm)]	120° ~ 46° (H), 60° ~ 26° (V)	120° ~ 46° (H), 60° ~ 26° (V)	109° (H), 61° (V)	TBD
Day/Night	●	●	●	●	●	●
IR Illuminators	30 m, IR LED*2	30 m, IR LED*2	50 m, IR LED*4	50 m, IR LED*4	30 m, IR LED*2	TBD
Min. Illumination	0.065 lux @ F2.0 (Color), <0.005 lux @ F2.0 (B/W), 0 lux with IR illumination on	0.065 lux @ F2.0 (Color), <0.005 lux @ F2.0 (B/W), 0 lux with IR illumination on	0.015 lux @ F1.3 (Color), <0.005 lux @ F1.3 (B/W), 0 lux with IR illumination on	0.015 lux @ F1.3 (Color), <0.005 lux @ F1.3 (B/W), 0 lux with IR illumination on	0.07 lux @ F1.6 (Color), 0.001 lux @ F1.6 (B/W), 0 lux with IR illumination on	TBD
Max. Resolution/ Frame Rate	30 fps @ 1920x1080	30 fps @ 1920x1080	60 fps @ 1920x1080	60 fps @ 1920x1080	30 fps @ 1920x1080	60 fps @ 1920x1080
WDR Technology*	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro
On-board Storage	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Video/ Audio/ Network						
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Audio		One-way Audio	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)
Digital Input/ Output	-	-	2/2	2/2	1/1	1/1
ONVIF	Profile G/S/T	Profile G/S/T	Profile S/G	Profile S/G	Profile S/G	Profile G/S/T
Solution Integration						
VIVOCloud	-	-	-	-	-	-
Security	-	-	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security	Secure boot, signed firmware, Trend Micro IoT Security
VCA	-	-	Smart Motion Detection, Smart VCA	Smart Motion Detection, Smart VCA	-	Smart Motion Detection, Smart VCA
General						
Power Input/ Consumption	PoE/ Max. 6.49 W	PoE/ Max. 6 W	AC 24V /DC 12V/ PoE, Max. 11 W	FD9365-HTV-A: Max. 11 W; FD9365-EHTV-A: Max. 21 W	DC 12V/ PoE, Max. 7 W	AC 24V (Optional)/ DC 12V/ PoE, TBD
Housing	IP66, IK10(housing)	IP66, IK10(Metal Housing)	-		IP66, IK67, IK10	-
Dimensions	Ø117.2 x 89.6 mm	Ø105 x 82.5 mm	Ø139 x 104 mm	Ø155 x 104 mm	Ø139 x 104 mm	TBD
Operating Temperature	-30°C ~ 60°C (-22°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F)	-10°C ~ 45°C (14°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F) (-HTV-A), -50°C ~ 60°C (-58°F ~ 140°F) (-EHTV-A)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)

* All specifications are subject to change without notice.

Network Cameras

Fixed Dome Cameras

2 Megapixel

Model	FD9367-HV	FD9367-EHTV-v2	FD9368-HTV
Camera Features			
Sensor Type	1/2.8" progressive CMOS	1/2.8" progressive CMOS	1/2.9" Progressive CMOS
Lens Type/ Focal Length/ F-number	Fixed/ 2.8 mm/ F1.6	Motorized/ 2.7 ~ 13.5 mm/ F1.4 ~ F2.8	Motorized/ 2.8 ~ 12 mm/ F1.4 ~ F2.8
Field of View	109° (H) 61° (V)	TBD	93° ~ 32° (H) 50° ~ 18° (V)
Day/Night	●	●	●
IR Illuminators	30 m, IR LED*2	TBD	30 m, IR LED*2
Min. Illumination	0.07 lux @ F1.6 (Color) 0.001 lux @ F1.6 (B/W) 0 lux with IR illumination on	TBD	0.055 lux @ F1.4 (Color) <0.005 lux @ F1.4 (B/W) 0 lux with IR illumination on
Max. Resolution/ Frame Rate	30 fps @ 1920x1080	60 fps @ 1920x1080	30 fps @ 1920x1080
WDR Technology*	WDR Pro	WDR Pro	WDR Pro
On-board Storage	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Video/ Audio/ Network			
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Audio	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)	One-way Audio
Digital Input/ Output	1/1	1/1	-
ONVIF	Profile S/G	Profile G/S/T	Profile G/S/T
Solution Integration			
VIVOCloud	●	-	-
Security	Trend Micro IoT Security	Secure boot, signed firmware, Trend Micro IoT Security	-
VCA	-	Smart Motion Detection, Smart VCA	-
General			
Power Input/ Consumption	DC 12V/ PoE Max. 7 W	AC 24V (Optional)/ DC 12V/ PoE TBD	PoE Max. 12.95 W (IR on) Max. 9 W (IR off)
Housing	IP66, IP67, IK10	IP66, IP67, IK10, NEMA 4X	IP66, IK10
Dimensions	Ø155 x 104 mm	TBD	Ø133.3 x 103.8 mm
Operating Temperature	-20°C ~ 50°C (-4°F ~ 122°F)	-40°C ~ 60°C (-40°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)

*WDR Pro: Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is between 100dB and 140dB. *WDR Pro II: Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is higher than 140dB. *SNV: Supreme Night Visibility, by professionally integrating superior optical components and sophisticated video algorithms, SNV cameras present Supreme Night Visibility in low light conditions. *I-CS: Intelligent CS-mount lenses can be used for add-on value functions, ex. remote zoom focus control, distortion correction, shading correction, etc. *AEB (Auto Exposure Bracketing): Provides multiple streams with different exposure settings to cover over-exposed and under-exposed scenarios.

* All specifications are subject to change without notice.

Bullet Cameras

Designed for Outdoor Surveillance and Support A Wide Range of Monitoring Distances

AI-Powered Video Analytics*

VIVOTEK's Smart VCA is a suite of multiple analytics that provide faster and more accurate detection for various scenarios
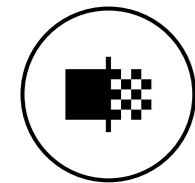
Smart Motion Detection*

With brilliant precision of human activity detection and intelligent neglect of background changes in a scene, VIVOTEK's SMD minimizes the number of false alarms effectively

Robust Cyber Protection

Empowered with firmware encryption and utilizing the expertise of Trend Micro, VIVOTEK provides robust cyber protection with affordable prices, catering to most user scenarios

Significantly Lower Bandwidth via Smart Stream III

Fully compatible with H.264 and H.265, VIVOTEK's Smart Stream III allows reducing bandwidth consumption up to 90%

RECOMMENDED

IZ9361-EH

- 2MP, 60fps @ 1920x1080
- WDR Pro
- 20x Optical Zoom with Auto Focus
- 150 Meters Smart IR II (Adaptive IR)
- IP67, IK10, NEMA 4X

IB9367-EHT-v2

- 2MP, 60fps @ 1920x1080
- WDR Pro
- Smart VCA
- Secure Boot Supported
- Signed Firmware Supported

NEW

* Available on selected models

	Bullet Cameras				
	8 Megapixel		5 Megapixel		
Model	**IB9391-EHT**	**IB9380-H**	**IB9387-H/EH**	**IB9387-HT-A/EHT-A**	**IB9388-HT**
Camera Features					
Sensor Type	1/2" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS
Lens Type/ Focal Length/ F-number	Motorized/ 3.9 ~ 10 mm/ F1.5 ~ F2.7	Fixed/ 3.6 mm/ F2.0	Fixed/ 3.6 mm/ F2.0	Motorized/ 2.7 ~ 13.5 mm/ F1.4 ~ F2.8	Motorized/ 2.8 ~ 12 mm/ F1.4 ~ F2.8
Field of View	95° ~ 45° (H) 52° ~ 25° (V)	76° (H) 59° (V)	76° (H) 56° (V)	100° ~ 30° (H) 72° ~ 23° (V)	88°~ 30° (H) 65° ~ 23° (V)
Day/Night	●	●	●	●	●
IR Illuminators	50 m, IR LED*5	30 m, IR LED*2	30 m, IR LED*2	50 m, IR LED*6	30 m, IR LED*2
Min. Illumination	0.02 lux @ F1.5 (Color) 0.01 lux @ F1.5 (B/W) 0 lux with IR illumination on	0.03 lux @ F2.0 (Color) <0.005 lux @ F2.0 (B/W) 0 lux with IR illumination on	0.06 lux @ F2.0 (Color) <0.01 lux F2.0 (B/W) 0 lux with IR illumination on	0.075 lux @ F1.4 (Color) <0.01 lux @ F1.4 (B/W) 0 lux with IR illumination on	0.035 lux @ F1.4 (Color) <0.005 lux @ F1.4 (B/W) 0 lux with IR illumination on
Max. Resolution/ Frame Rate	30 fps @ 3840x2160 (WDR Pro on) 120 fps @ 1920x1080 (WDR Pro off)	20 fps @ 2560x1920	30 fps @ 2560x1920 60 fps @ 1920x1080	30 fps @ 2560x1920 60 fps @ 1920x1080	20 fps @ 2560x1920
WDR Technology*	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro
On-board Storage	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Video/ Audio/ Network					
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Audio	Two-way Audio (Full duplex)	-	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)	-
Digital Input/ Output	1/1	-	1/1	2/2	-
ONVIF	Profile G/S/T	Profile G/S/T	Profile G/S/T	Profile S/G	Profile G/S/T
Solution Integration					
VIVOCloud	●	-	●	-	-
Security	Signed firmware, Trend Micro IoT Security	-	Signed firmware, Trend Micro IoT Security	Trend Micro IoT Security	-
VCA	Smart Motion Detection, Smart VCA	-	Smart Motion Detection, Smart VCA	Smart Motion Detection, Smart VCA	-
General					
Power Input/ Consumption	AC 24V/ DC 12V/ PoE Max. 25 W	PoE Max. 6.49 W (IR on) Max. 3.6 W (IR off)	AC 24V (optional)/ DC 12V/ PoE IB9387-H: Max. 8 W IB9387-EH: Max. 19.3 W	AC 24V/ DC 12V/ PoE IB9387-HT-A: Max. 12.95 W IB9387-EHT-A: Max. 25 W	PoE Max. 12.95 W (IR on) Max. 9 W (IR off)
Housing	IP66, IP67, IK10 (Metal housing), NEMA 4X	IP66, IK10(housing)	IP66, IP67, IK10 (Metal housing)	IP66, IP67, IK10 (Metal housing)	IP66, IK10(housing)
Dimensions	121 x 121 x 394 mm (w/ junction box) 118 x 118 x 333 mm (w/o junction box)	Ø91.1 x 176.8 mm	118 x 118 x 266 mm	118 x 118 x 294 mm	85 x 85 x 214.5 mm
Operating Temperature	-50°C ~ 60°C (-58°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F) (-H) -50°C ~ 60°C (-58°F ~ 140°F) (-EH)	-30°C ~ 60°C (-22°F ~ 140°F) (-HT-A) -50°C ~ 60°C (-58°F ~ 140°F) (-EHT-A)	-30°C ~ 60°C (-22°F ~ 140°F)

* All specifications are subject to change without notice.

Bullet Cameras

	5 Megapixel			2 Megapixel	

Model	IB9389-H/EH	IB9389-HM/EHM	IB9389-HT/EHT	IB9360-H	IB9365-HT-A/EHT-A
Camera Features					
Sensor Type	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.9" Progressive CMOS	1/2" Progressive CMOS
Lens Type/ Focal Length/ F-number	Fixed/ 3.6 mm/ F2.0	Manual Focus / 2.8 ~ 12 mm/ F1.4 ~ F2.8	Motorized/ 3.7 ~ 7.7 mm/ F1.9 ~ F2.9	Fixed/ 3.6 mm/ F2.0	Motorized/ 4 ~ 9 mm/ F1.3 ~2.2 Motorized/ 12-40 mm/ F1.8
Field of View	76° (H) 56° (V)	81° ~ 30° (H) 60° ~ 23° (V)	80° ~ 38° (H) 60° ~ 29° (V)	81° (H) 44° (V)	IB9365-HT/EHT-A (4-9 mm): 100° ~ 46° (H), 52° ~ 26° (V) IB9365-HT-A (12-40 mm): 35° ~ 12° (H), 19° ~ 7° (V)
Day/Night	●	●	●	●	●
IR Illuminators	30 m	30 m	30 m	30 m, IR LED*2	IB9365-HT-A/EHT-A (4-9 mm): 50 m, IR LED*6 IB9365-HT-A (12-40 mm): 100 m, IR LED*4
Min. Illumination	0.06 lux @ F2.0 (Color) 0.01 lux @ F2.0 (B/W) 0 lux with IR illumination on	0.07 lux @ F1.4 (Color) 0.01 lux @ F1.4 (B/W) 0 lux with IR illumination on	0.06 lux @ F1.9 (Color) 0.01 lux @ F1.9 (B/W) 0 lux with IR illumination on	0.065 lux @ F2.0 (Color) <0.005 lux @ F2.0 (B/W) 0 lux with IR illumination on	IB9365-HT/EHT-A (4-9 mm): 0.015 lux @ F1.3 (Color), <0.005 lux @ F1.3 (B/W), 0 lux with IR illumination on; IB9365-HT-A (12-40 mm): 0.075 lux @ F1.8 (Color), <0.005 lux @ F1.8 (B/W), 0 lux with IR illumination on
Max. Resolution/ Frame Rate	30 fps @ 2560x1920 60 fps @ 1920x1080	30 fps @ 2560x1920 60 fps @ 1920x1080	30 fps @ 2560x1920 60 fps @ 1920x1080	30 fps @ 1920x1080	60 fps @ 1920x1080
WDR Technology*	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro
On-board Storage	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Video/ Audio/ Network					
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Audio	-	-	-	-	Two-way Audio (Full duplex)
Digital Input/ Output	-	-	-	-	2/2
ONVIF	Profile G/S/T	Profile G/S/T	Profile G/S/T	Profile G/S/T	Profile S/G
Solution Integration					
VIVOCloud	●	●	●	-	-
Security	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security	-	Trend Micro IoT Security
VCA	Smart Motion Detection, Smart VCA	-	Smart Motion Detection, Smart VCA	-	Smart Motion Detection, Smart VCA
General					
Power Input/ Consumption	PoE - IB9389-H: Max. 8 W (IR on), Max. 5.5 W (IR off), IB9389-EH: Max. 19.2 W (Heater on), Max. 8 W (Heater off)	PoE - IB9389-HM: Max. 9.5 W (IR on), Max. 5.5 W (IR off), IB9389-EHM: Max. 23.5 W (Heater on), Max. 9.5 W (Heater off)	PoE - IB9389-HT: Max. 10 W (IR on), Max. 6 W (IR off), IB9389-EHT: Max. 22.1 W (Heater on), Max. 10 W (Heater off)	PoE Max. 6.49 W (IR on) Max. 3.6 W (IR off)	AC 24V/ DC 12V/ PoE IB9365-HT-A: Max. 12.95 W IB9365-EHT-A: Max. 25 W
Housing	IP66, IK10 (Metal housing)	IP66, IK10 (Metal housing)	IP66, IK10 (Metal housing)	IP66, IK10(housing)	IP66, IP67, IK10 (Metal housing)
Dimensions	Ø86 x 300 mm	Ø86 X 327 mm	Ø86 x 303 mm	Ø91.1 x 176.8 mm	IB9365-HT-A/EHT-A (4-9mm): 352 x 121 x 121 mm (w/ junction box), IB9365-HT-A (12-40 mm): 368 x 121 x 121 mm (w/ junction box)
Operating Temperature	-30°C ~ 60°C (-22°F ~ 140°F) (-H) -50°C ~ 60°C (-58°F ~ 140°F) (-EH)	-30°C ~ 60°C (-22°F ~ 140°F) (-HM) -50°C ~ 60°C (-58°F ~ 140°F) (-EHM)	-30°C ~ 60°C (-22°F ~ 140°F) (-HT) -50°C ~ 60°C (-58°F ~ 140°F) (-EHT)	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F) (-HT-A) -50°C ~ 60°C (-58°F ~ 140°F) (-EHT-A)

Bullet Cameras | Zoom Lens Camera

	2 Megapixel			2 Megapixel

NEW

Model	IB9367-H/EH	IB9367-EHT-v2	IB9368-HT	IZ9361-EH
Camera Features				
Sensor Type	1/2.8" progressive CMOS	1/2.8" progressive CMOS	1/2.9" Progressive CMOS	1/3" Progressive CMOS
Lens Type/ Focal Length/ F-number	Fixed/ 3.6 mm/ F1.6	Motorized/ 2.7 ~ 13.5 mm/ F1.4 ~ F2.8	Motorized/ 2.8 ~ 12 mm/ F1.4 ~ F2.8	20x Optical Zoom Auto Focus/ 4.7 ~ 94 mm/ F1.6 ~ F3.5
Field of View	88° (H) 47° (V)	TBD	93° ~ 32° (H) 50° ~ 18° (V)	55.4° ~ 2.9° (H) 32.6° ~ 1.6° (V)
Day/Night	●	●	●	●
IR Illuminators	30 m, IR LED*2	TBD	30 m, IR LED*2	150 m
Min. Illumination	0.07 lux @ F1.6 (Color) 0.001 lux @ F1.6 (B/W) 0 lux with IR illumination on	TBD	0.055 lux @ F1.4 (Color) <0.005 lux @ F1.4 (B/W) 0 lux with IR illumination on	0.26 lux @ F1.6 (Color) 0.01 lux @ F1.6 (B/W) 0 lux with IR illumination on
Max. Resolution/ Frame Rate	30 fps @ 1920x1080	60 fps @ 1920x1080	30 fps @ 1920x1080	H.265/H.264: 60 fps @ 1920x1080 MJPEG: 30 fps @ 1920x1080
WDR Technology*	WDR Pro	WDR Pro	WDR Pro	WDR Pro
On-board Storage	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	SD/SDHC/SDXC card slot
Video/ Audio/ Network				
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Audio	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)	-	Two-way Audio (Full duplex)
Digital Input/ Output	1/1	1/1	-	3/1
ONVIF	Profile S/G	Profile G/S/T	Profile G/S/T	Profile S/G
Solution Integration				
VIVOCloud	●	-	-	-
Security	Trend Micro IoT Security	Secure boot, signed firmware, Trend Micro IoT Security	-	-
VCA	-	Smart Motion Detection, Smart VCA	-	-
General				
Power Input/ Consumption	DC12V /PoE IB9367-H: Max. 7 W IB9367-EH: Max. 24 W	AC 24V (Optional)/ DC 12V/ PoE TBD	PoE - Max. 12.95 W (IR on), Max. 9 W (IR off)	AC 24V/ DC 24V/ 60W UPoE Max. 48/18 W (Heater on/off)
Housing	IP66, IP67, IK10 (Metal housing)	IP66, IP67, IK10 (Metal housing), NEMA 4X	IP66, IK10(housing)	IP67, IK10, NEMA 4X
Dimensions	266 x 118 x 118 mm	TBD	85 x 85 x 214.5 mm	147 x 375 x 322 mm
Operating Temperature	-20°C ~ 50°C (-4°F ~ 122°F) (-H) -50°C ~ 50°C (-58°F ~ 122°F) (-EH)	-40°C ~ 60°C (-40°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-50°C ~ 60°C (-58°F ~ 140°F)

Network Cameras

*WDR Pro Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is between 100dB and 140dB. *WDR Pro II Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is higher than 140dB. *SNV Supreme Night Visibility, by professionally integrating superior optical components and sophisticated video algorithms, SNV cameras present Supreme Night Visibility in low light conditions. *i-CS Intelligent CS-mount lenses can be used for add-on value functions, ex. remote zoom focus control, distortion correction, shading correction, etc. *AEB (Auto Exposure Bracketing) Provides multiple streams with different exposure settings to cover over-exposed and under-exposed scenarios.
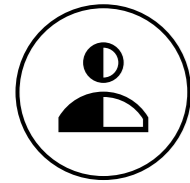
Box Cameras

Equipped with Different Lens Options, Ideal for Video Surveillance Applications
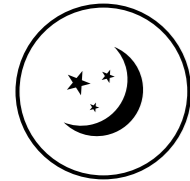
SNV(Supreme Night Visibility)

VIVOTEK's SNV technology allows capture of the highest quality full-color images even in low light environments

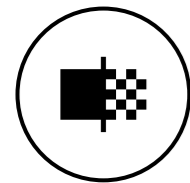### WDR Pro Technology

WDR Pro technology enables image clarity in high contrast environments, essential for box cameras' remote back focus lenses

Robust Cyber Protection

Empowered with firmware encryption and utilizing the expertise of Trend Micro, VIVOTEK provides robust cyber protection with affordable prices, catering to most user scenarios

Significantly Lower Bandwidth via Smart Stream III

Fully compatible with H.264 and H.265, VIVOTEK's Smart Stream III allows reducing bandwidth consumption up to 90%

RECOMMENDED

IP9165-HT

- 60 fps @ 1920x1080
- 3.9 ~ 10 mm, Remote Focus, i-CS Lens (Intelligent-CS)
- SNV II, WDR Pro II, Smart Stream III
- DIS (Digital Image Stabilization)
- Video Rotation for Corridor View

IP9181-H

- 30 fps @ 2560x1920, 60 fps @ 1920x1080
- 1/1.8" Progressive CMOS Sensor
- DIS (Digital Image Stabilization)
- SNV, WDR Pro, Smart Stream III
- Remote Back Focus for Easy Focus Adjustments

Box Cameras				
	8 Megapixel	5 Megapixel	3 Megapixel	2 Megapixel
Model	**IP9191-HP/HT**	**IP9181-H**	**IP9171-HP**	**IP9165-HP**	**IP9165-HT**
Camera Features					
Sensor Type	1/2" Progressive CMOS	1/1.8" Progressive CMOS	1/2.8" Progressive CMOS	1/2" Progressive CMOS	1/2" Progressive CMOS
Lens Type/ Focal Length/ F-number	Remote Back Focus i-CS (IP9191-HT)/ 3.9 ~ 10 mm/ F1.5 ~ F2.7	Remote Back Focus/ 4.1 ~ 9 mm/ F1.6 ~ F2.4	Remote Back Focus/ 2.8 ~ 8 mm/ F1.2 ~ F1.95	Remote Back Focus/ 3.6 ~ 17 mm/ F1.5 ~ F2.8	Remote Back Focus i-CS/ 3.9 ~ 10 mm/ F1.5 ~ F2.7
Field of View	119° ~ 45° (H) 63° ~ 25° (V)	90° ~ 46° (H) 68° ~ 35° (V)	114° ~ 51° (H) 84° ~ 39° (V)	100° ~ 28° (H) 55° ~ 16° (V)	110° ~ 42.7° (H) 58.5° ~ 23.9° (V)
Day/Night	●	●	●	●	●
IR Illuminators	-	-	-	-	-
Min. Illumination	0.02 lux @ F1.5 (Color) 0.1 lux @ F1.5 (B/W)	0.07 lux @ F1.6 (Color) 0.001 lux @ F1.6 (B/W)	0.01 lux @ F1.2 (Color) 0.001 lux @ F1.2 (B/W)	0.01 lux @ F1.5 (Color) 0.005 lux @ F1.5 (B/W)	0.01 lux @ F1.5 (Color) 0.005 lux @ F1.5 (B/W)
Max. Resolution/ Frame Rate	30 fps @ 3840x2160 120 fps @ 1920x1080 (WDR Pro off)	H.265/H.264: 30 fps @ 2560x1920, 60 fps @ 1920x1080 MJPEG: 12 fps @ 2560x1920, 30 fps @ 1920x1080	H.265/H.264: 30 fps @ 2048x1536 MJPEG: 15 fps @ 2048x1536	60 fps @ 1920x1080	60 fps @ 1920x1080
WDR Technology*	WDR Pro	WDR Pro	WDR Pro	WDR Pro II	WDR Pro II
On-board Storage	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Video/ Audio/ Network					
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Audio	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)
Digital Input/ Output	2/2	3/1	3/1	2/2	2/2
ONVIF	Profile G/S/T	Profile S/G	Profile S/G	Profile G/S/T	Profile G/S/T
Solution Integration					
VIVOCloud	-	●	●	●	●
Security	Trend Micro IoT Security	-	-	Trend Micro IoT Security	Trend Micro IoT Security
VCA	-	-	-	-	-
General					
Power Input/ Consumption	AC 24V/ DC 12V/ PoE Max. 12 W	AC 24V/ DC 12V/ PoE Max. 9.7 W	AC 24V/ DC 12V/ PoE Max. 8.6 W	AC 24V/ DC 12V/ PoE Max. 9 W (DC 12V) Max. 18 W (AC 24V) Max. 9.06 W (PoE)	AC 24V/ DC 12V/ PoE Max. 9 W (DC 12V) Max. 18 W (AC 24V) Max. 9.06 W (PoE)
Housing	-	-	-	-	-
Dimensions	209 (D) x 70 (W) x 61 (H) mm (-HP) 210 (D) x 70 (W) x 61 (H) mm (-HT)	210 (D) x 70 (W) x 63 (H) mm	210 (D) x 70 (W) x 63 (H) mm	151 (D) x 70 (W) x 61 (H) mm (w/o lens) 227 (D) x 70 (W) x 61 (H) mm (w/ lens)	151 (D) x 70 (W) x 61 (H) mm (w/o lens) 210 (D) x 70 (W) x 61 (H) mm (w/ lens)
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 60°C (14°F ~ 140°F)	-10°C ~ 60°C (14°F ~ 140°F)

* All specifications are subject to change without notice.

Box Cameras

2 Megapixel

Model	IP9165-HT-v2	IP9167-HP	IP9167-HT
Camera Features			
Sensor Type	1/2" Progressive CMOS	1/2.8" Progressive CMOS	1/2.8" Progressive CMOS
Lens Type/ Focal Length/ F-number	Remote Back Focus i-CS/ 9 ~ 50 mm [IP9165-LPC-v2 (9-50 mm)] 12 ~ 40 mm [IP9165-LPC-v2 (12-40 mm)]/ F1.5 ~ F1.6 [IP9165-LPC-v2 (9-50 mm)] F1.8 ~ F2.3 [IP9165-LPC-v2 (12-40 mm)]	Manual Focus CS-mount/ -/ -	Remote Focus CS-mount/ 2.8 ~ 10 mm [IP9167-HT (2.8-10 mm)] 12 ~ 40 mm [IP9167-HT (12-40 mm)]/ F1.6 ~ F2.97 [IP9167-HT (2.8-10 mm)] F1.8 ~ F2.3 [IP9167-HT (12-40 mm)]
Field of View	IP9165-LPC-v2 (9 mm~50 mm) 42.8° ~ 8.3° (Horizontal) 24.3° ~ 4.7° (Vertical) 48.9° ~ 9.46° (Diagonal) IP9165-LPC-v2 (12~40 mm): 34.2° ~ 11.6° (Horizontal) 18.7° ~ 6.6° (Vertical) 39.8° ~ 13.3° (Diagonal)	-	IP9167-HT (2.8-10 mm): 105° ~ 35° (H), 55° ~ 20° (V) IP9167-HT (12-40 mm): 26° ~ 10° (H), 14° ~ 6° (V)
Day/Night	●	●	●
IR Illuminators	-	-	-
Min. Illumination	IP9165-LPC-v2 (9-50mm): 0.01 lux @ F1.5 (Color) IP9165-LPC-v2 (12-40mm): 0.08 lux @ F1.8 (Color)	-	0.07 lux @ F1.6 (Color) 0.001 lux @ F1.6 (B/W)
Max. Resolution/ Frame Rate	60 fps @ 1920x1080	30 fps @ 1920x1080	30 fps @ 1920x1080
WDR Technology*	WDR Pro II	WDR Pro	WDR Pro
On-board Storage	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Video/ Audio/ Network			
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Audio	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)
Digital Input/ Output	2/2	2/2	2/2
ONVIF	Profile G/S/T	Profile S/G	Profile S/G
Solution Integration			
VIVOCloud	●	●	●
Security	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security
VCA	Smart Motion Detection, Smart VCA	-	-
General			
Power Input/ Consumption	AC 24V/ DC 12V/ PoE Max. 9 W (DC 12V) Max. 18 W (AC 24V) Max. 9.06 W (PoE)	DC 12V/ PoE Max. 6.5 W	DC 12V/ PoE Max. 6.5 W
Housing	-	-	-
Dimensions	255 (D) x 70 (W) x 64 (H) mm (9-50mm) 203 (D) x 70 (W) x 61 (H) mm (12-40mm)	151 (D) x 70 (W) x 61 (H) mm	188 (D) x 70 (W) x 61 (H) mm (2.8~10mm) 205 (D) x 70 (W) x 61 (H) mm (12~40mm)
Operating Temperature	-10°C ~ 60°C (14°F ~ 140°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)

* All specifications are subject to change without notice.

*WDR Pro Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is between 100dB and 140dB. *WDR Pro II Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is higher than 140dB. *SNV Supreme Night Visibility, by professionally integrating superior optical components and sophisticated video algorithms, SNV cameras present Supreme Night Visibility in low light conditions. *i-CS Intelligent CS-mount lenses can be used for add-on value functions, ex. remote zoom focus control, distortion correction, shading correction, etc. *AEB (Auto Exposure Bracketing) Provides multiple streams with different exposure settings to cover over-exposed and under-exposed scenarios.

Mobile Dome Cameras

Trusted and Reliable Solution for Onboard Rolling Stock
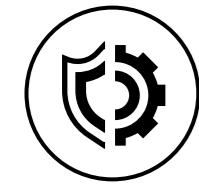
Reliability and Rugged Design

Cameras are built and tested to endure harsh operating conditions including extreme temperatures, mechanical impact and vibrations, and feature streamlined rugged metal housings with high IP and IK ratings to ensure maximum reliability for security monitoring in any environment
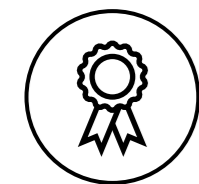
Industry Standards and Certifications

Designed for transport applications, VIVOTEK's mobile dome cameras are compliant with the strictest norms and regulations required by international law and transportation authorities

RECOMMENDED

MD9581-H

- 30 fps @ 2560 x1920
- 25M IR
- IP66, IP67, IK10, NEMA 4X
- Compliant with EN50155 OT2 and EN45545

MD9561-H

- 60 fps @ 1920 x1080
- 30M IR
- IP66, IP67, IK10, NEMA 4X
- Compliant with EN50155 OT2 and EN45545

Mobile Dome Cameras				
5 Megapixel			2 Megapixel	
Model MD9581-H	MD9582-H	MD8564-EH	MD9560-H	MD9560-DH
Camera Features				
Sensor Type	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.9" Progressive CMOS	1/2.9" Progressive CMOS
Lens Type/ Focal Length/ F-number	Fixed/ 2.8 mm / F1.8 Fixed/ 3.6 mm / F2.0	Fixed/ 2.8 mm / F1.8 Fixed/ 3.6 mm / F2.0	Fixed/ 6 mm (optional: 3.6 mm, 8 mm)/ F2.0	Fixed/ 2.8 mm / F1.8 Fixed/ 3.6 mm / F2.0	Fixed/ 2.8 mm/ F1.8
Field of View	102° (H), 76° (V)[MD9581-H (2.8 mm)] 83° (H), 61° (V) [MD9581-H (3.6 mm)]	102° (H), 76° (V)[MD9581-H (2.8 mm)] 83° (H), 61° (V) [MD9581-H (3.6 mm)]	57° (H) 30° (V)	108° (H), 60° (V)[MD9560-H (2.8 mm)] 89° (H), 47° (V) [MD9560-H (3.6 mm)]	108° (H) 60° (V)
Day/Night	●	●	●	●	●
IR Illuminators	25 m, IR LED*2	20 m, IR LED*2	30 m, IR LED*4	20 m, IR LED*2	20 m, IR LED*2
Min. Illumination	MD9581-H (2.8 mm): 0.0.9 lux @ F1.8 (Color) 0.01 lux @ F1.8 (B/W) 0 lux with IR illumination on MD9581-H (3.6 mm): 0.1 lux @ F2.0 (Color) 0.01 lux @ F2.0 (B/W) 0 lux with IR illumination on	TBD	0.18 lux @ F2.0 (Color) 0.01 lux @ F2.0 (B/W) 0 lux with IR illumination on	MD9560-H (2.8 mm): 0.13 lux @ F1.8 (Color) 0.01 lux @ F1.8 (B/W) 0 lux with IR illumination on MD9560-H (3.6 mm): 0.16 lux @ F2.0 (Color) 0.01 lux @ F2.0 (B/W) 0 lux with IR illumination on	0.13 lux @ F1.8 (Color) 0.01 lux @ F1.8 (B/W) 0 lux with IR illumination on
Max. Resolution/ Frame Rate	30 fps @ 2560x1920 60 fps @ 1920x1080	30 fps @ 2560x1920 60 fps @ 1920x1080	30 fps @ 1920x1080 45 fps @ 1280x720	30 fps @ 1920x1080	30 fps @ 1920x1080
WDR Technology*	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro
On-board Storage	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Video/ Audio/ Network				
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Audio	One-way Audio	One-way Audio	Two-way Audio (Full duplex)	One-way Audio	One-way Audio
Digital Input/ Output	1/1	1/1	1/1	1/1	1/1
ONVIF	Profile G/S/T	Profile G/S/T	Profile S/G	Profile G/S/T	Profile G/S/T
Solution Integration				
VIVOCloud	●	●	●	●	●
Security	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security
VCA	Smart Motion Detection, Smart VCA	Smart Motion Detection, Smart VCA	-	-	-
General				
Power Input/ Consumption	PoE Max. 5.5 W (IR on) Max. 3.3 W (IR off)	PoE/ TBD	PoE (M12 connector, for Camera System)/ DC 24V (for Heater) Max. 10/ 5.7 W (IR on/off) Heater: 50 W	PoE Max. 5.5 W (IR on) Max. 3.3 W (IR off)	DC 7.5 ~ 48V Max. 5.5 W (IR on) Max. 3.3 W (IR off)
Housing	IP66, IP67, IK10, NEMA 4X	IP66, IP67, IK10, NEMA 4X	IP6K9K/ IP68, IK10+, NEMA 4X	IP66, IP67, IK10, NEMA 4X	IP66, IP67, IK10, NEMA 4X
Dimensions	98 (D) x 110 (W) x 54 (H) mm	98 (D) x 110 (W) x 54 (H) mm	242 (D) x 162 (W) x 82 (H) mm	98 (D) x 110 (W) x 54 (H) mm	98 (D) x 110 (W) x 54 (H) mm
Operating Temperature	-40°C ~ 60°C (-13°F~ 140°F) (IR off) -40°C ~ 55°C (-13°F~ 131°F) (IR on)	TBD	-40°C ~ 70°C (-40°F ~ 158°F)	-25°C ~ 60°C (-13°F~ 140°F) (IR off) -25°C ~ 55°C (-13°F~ 131°F) (IR on)	-25°C ~ 60°C (-13°F~ 140°F) (IR off) -25°C ~ 55°C (-13°F~ 131°F) (IR on)

NEW

* All specifications are subject to change without notice.

Mobile Dome Cameras
2 Megapixel

Model	MD9561-H
Camera Features	
Sensor Type	1/2.8" Progressive CMOS
Lens Type/ Focal Length/ F-number	Fixed/ 2.8 mm / F1.8 Fixed/ 3.6 mm / F2.0
Field of View	110° (H), 63° (V) [MD9561T-H (2.8 mm)] 90° (H), 49° (V) [MD9561-H (3.6 mm)]
Day/Night	●
IR Illuminators	30 m, IR LED*2
Min. Illumination	MD9561-H (2.8 mm): 0.07 lux @ F1.8 (Color) 0.01 lux @ F1.8 (B/W) 0 lux with IR illumination on MD9561-H (3.6 mm): 0.08 lux @ F2.0 (Color) 0.01 lux @ F2.0 (B/W) 0 lux with IR illumination on
Max. Resolution/ Frame Rate	60 fps @ 1920x1080
WDR Technology*	WDR Pro
On-board Storage	MicroSD/SDHC/SDXC card slot
Video/ Audio/ Network	
Video Compression	Triple-Codec (H.265/H.264/MJPEG)
Audio	One-way Audio
Digital Input/ Output	1/1
ONVIF	Profile G/S/T
Solution Integration	
VIVOCloud	●
Security	Trend Micro IoT Security
VCA	Smart Motion Detection, Smart VCA
General	
Power Input/ Consumption	PoE Max. 5.5 W (IR on) Max. 3.3 W (IR off)
Housing	IP66, IP67, IK10, NEMA 4X
Dimensions	98 (D) x 110 (W) x 54 (H) mm
Operating Temperature	-40°C ~ 60°C (-13°F~ 140°F) (IR off) -40°C ~ 55°C (-13°F~ 131°F) (IR on)

* All specifications are subject to change without notice.

40

*WDR Pro Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is between 100dB and 140dB. *WDR Pro II Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is higher than 140dB. *SNV Supreme Night Visibility, by professionally integrating superior optical components and sophisticated video algorithms, SNV cameras present Supreme Night Visibility in low light conditions. *i-CS Intelligent CS-mount lenses can be used for add-on value functions, ex. remote zoom focus control, distortion correction, shading correction, etc. *AEB (Auto Exposure Bracketing) Provides multiple streams with different exposure settings to cover over-exposed and under-exposed scenarios.

Thermal Bullet Cameras

Long Distance Monitoring
VIVOTEK's thermal cameras offer different lens options to allow users to easily adapt to diverse detection scenarios

Robust Design for Outdoor Environments
Cameras are IP66/IP67 rated and equipped with NEMA 4X housings. This unique lens guard design provides extra protection from unexpected shock or impact

Video Analytics for Perimeter Protection
VIVOTEK's thermal cameras, with video analytic features such as line crossing, and field detection, make perimeter protection both simple and efficient

Thermal Bullet Cameras		

Model	TB9330-E	TB9331-E
Camera Features		
Sensor Type	Uncooled Vox Infrared Detector	Uncooled Vox Infrared Detector
Lens Type/ Focal Length/ F-number	Fixed Thermal Lens/ 8.8 mm,19 mm ,35 mm, 50 mm/ F1.0	Fixed Thermal Lens/ 8.8 mm,19 mm ,35 mm, 50 mm/ F1.0
Field of View	38.3° (H), 26.1° (V) [TB9330-E (8.8mm)] 18.3° (H), 12.3° (V) [TB9330-E (19mm)] 10° (H), 6.7° (V) [TB9330-E (35mm)] 7° (H), 4.7° (V) [TB9330-E (50mm)]	69.6° (H), 49.7° (V) [TB9331-E (8.8mm)] 35.7° (H), 24.2° (V) [TB9331-E (19mm)] 19.8° (H), 13.3° (V) [TB9331-E (35mm)] 14° (H), 9.3° (V) [TB9331-E (50mm)]
Day/Night	-	-
IR Illuminators	-	-
Min. Illumination	-	-
Max. Resolution/ Frame Rate	30 fps @ 384x256	30 fps @ 720x480
WDR Technology*	-	-
On-board Storage	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Video/ Audio/ Network		
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Audio	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)
Digital Input/ Output	1/1	1/1
ONVIF	Profile S/G	Profile S/G
Solution Integration		
VIVOCloud	●	●
Security	Trend Micro IoT Security	Trend Micro IoT Security
VCA	-	-
General		
Power Input/ Consumption	AC 24V/ DC 12V/ PoE Max. 12.5 W (Heater on)	AC 24V/ DC 12V/ PoE Max. 14 W (Heater on)
Housing	IP66, IP67, IK10, NEMA 4X	IP66, IP67, IK10, NEMA 4X
Dimensions	w/ junction box: 121 x 121 x 472 mm (8.8mm) 121 x 121 x 453 mm (19mm) 121 x 121 x 456 mm (35/50mm)	w/ junction box: 121 x 121 x 472 mm (8.8mm) 121 x 121 x 453 mm (19mm) 121 x 121 x 456 mm (35/50mm)
Operating Temperature	-50°C ~ 60°C (-58°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)

* All specifications are subject to change without notice.

LPC Cameras

From the Highest Levels of Glare to the Darkest Hours in the Night

155 MPH

Capture Vehicle Speeds up to 155MPH (250 km/h)

VIVOTEK's Freeway LPC camera adopts a 3-Megapixel global shutter sensor combined with built-in corresponding 24W pulse mode IR LEDs. The camera can provide clear license plate images for reliable recognition in high-speed traffic applications
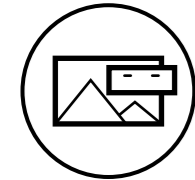
Single Camera Coverage of Both Scene Overview & LPC View

VIVOTEK's 2 Mega-pixel resolution kit provides not only sufficient PPF for license plate capture, but also for a clear overview of moving vehicles, including car color, brand and type, for general traffic surveillance purposes
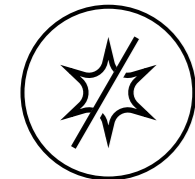
Supreme Anti-Glare Capability

Capturing images at night is a challenging issue for any surveillance application, but for LPC applications the challenge is even greater due to the noise and glare caused by the headlights of cars

RECOMMENDED

IP9172-LPC(Freeway)

- Capture Vehicle Speeds of up to 155MPH (250 km/hr)
- Global Shutter Camera and Pulsed Mode IR Illuminator
- Supreme Anti-Glare Capability
- Automatic Exposure Bracketing Function (AEB)

IP9165-LPC Kit

- Capture Vehicle Speed up to 110MPH (180km/hr)
- One Camera Covers Both Scene Overview & LPC View
- Supreme Anti-Glare Capability
- One Camera Covers Dual Lanes

	License Plate Capture Cameras				
	3 Megapixel		**2 Megapixel**		
Model	**IP9172-LPC (Freeway)**	**IP9165-LPC**	**IP9165-LPC Kit**	**IP9165-LPC-v2**	**IP9165-LPC-v2 Kit**
Camera Features					
Sensor Type	1/1.8" Global Shutter CMOS	1/2" Progressive CMOS	1/2" Progressive CMOS	1/2" Progressive CMOS	1/2" Progressive CMOS
Lens Type/ Focal Length/ F-number	Remote Focus CS-mount/ 12 ~ 40 mm/ F1.8 ~ F2.3	Remote Back Focus i-CS/ 9 ~ 50 mm [IP9165-LPC (9-50 mm)] 12 ~ 40 mm [IP9165-LPC (12-40 mm)]/ F1.5 ~ F1.6 [IP9165-LPC (9-50 mm)] F1.8 ~ F2.3 [IP9165-LPC (12-40 mm)]	Remote Back Focus i-CS/ 9 ~ 50 mm [IP9165-LPC (9-50 mm)] 12 ~ 40 mm [IP9165-LPC (12-40 mm)]/ F1.5 ~ F1.6 [IP9165-LPC (9-50 mm)] F1.8 ~ F2.3 [IP9165-LPC (12-40 mm)]	Remote Back Focus i-CS/ 9 ~ 50 mm [IP9165-LPC-v2 (9-50 mm)] 12 ~ 40 mm [IP9165-LPC-v2 (12-40 mm)]/ F1.5 ~ F1.6 [IP9165-LPC-v2 (9-50 mm)] F1.8 ~ F2.3 [IP9165-LPC-v2 (12-40 mm)]	Remote Back Focus i-CS/ 9 ~ 50 mm [IP9165-LPC (9-50 mm)] 12 ~ 40 mm [IP9165-LPC (12-40 mm)]/ F1.5 ~ F1.6 [IP9165-LPC (9-50 mm)] F1.8 ~ F2.3 [IP9165-LPC (12-40 mm)]
Field of View	35.8° ~ 12.3° (H) 26.3° ~ 9.8° (V)	IP9165-LPC (9-50 mm): 42.8° ~ 8.3° (H), 24.3° ~ 4.7° (V) IP9165-LPC (12-40 mm): 34.2° ~ 11.6° (H), 18.7° ~ 6.6° (V)	34.2° ~ 11.6° (H) 18.7° ~ 6.6° (V)	IP9165-LPC-v2 (9 mm~50 mm): 42.8° ~ 8.3° (H), 24.3° ~ 4.7° (V) IP9165-LPC-v2 (12~40 mm): 34.2° ~ 11.6° (H), 18.7° ~ 6.6° (V)	IP9165-LPC-v2 (9 mm~50 mm): 42.8° ~ 8.3° (H), 24.3° ~ 4.7° (V) IP9165-LPC-v2 (12~40 mm): 34.2° ~ 11.6° (H), 18.7° ~ 6.6° (V)
Day/Night	●	●		●	
IR Illuminators	External IR Illuminator (CF24I8-2040)	-	External IR Illuminator (CA80I8-2040/CM48I8-2040/AI-109)	-	External IR Illuminator (CA80I8-2040/AI-109)
Min. Illumination	IR Threshold: 300 lux @ IR On 600 lux @ IR Off RS485 configurable	IP9165-LPC (9-50mm): 0.01 lux @ F1.5 (Color) IP9165-LPC (12-40mm): 0.08 lux @ F1.8 (Color)	IR Threshold: 300 lux @ IR On 600 lux @ IR Off RS485 configurable	IP9165-LPC-v2 (9-50mm): 0.01 lux @ F1.5 (Color) IP9165-LPC-v2 (12-40mm): 0.08 lux @ F1.8 (Color)	IR Threshold: 300 lux @ IR On 600 lux @ IR Off RS485 configurable
Max. Resolution/ Frame Rate	55 fps @ 2048x1536, AEB off 60 fps @ 1920x1080, AEB off 30 fps @ 1920x1080, AEB on	60 fps @ 1920x1080	60 fps @ 1920x1080	60 fps @ 1920x1080	60 fps @ 1920x1080
WDR Technology*		WDR Pro II	WDR Pro II	WDR Pro II	WDR Pro II
On-board Storage	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Video/ Audio/ Network					
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Audio	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)
Digital Input/ Output	2/1	2/2	2/2	2/2	2/2
ONVIF	Profile G/S/T	Profile G/S/T	Profile G/S/T	Profile G/S/T	Profile G/S/T
Solution Integration					
VIVOCloud	●	●	●	●	●
Security	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security
VCA	-	-	-	Smart Motion Detection, Smart VCA	Smart Motion Detection, Smart VCA
General					
Power Input/ Consumption	AC 24V DC 24V/ -20°C ~ 60°C (-4°F ~ 140°F): Max. 60 W, Suggested Power: AC 24V or DC 24V/ 3A -40°C ~ 60°C (-40°F ~ 140°F): Max. 100 W, Suggested Power: AC 24V or DC 24V/ 5A IP68, IK10	AC 24V/ DC 12V/ PoE Max. 9 W (DC 12V) Max. 18 W (AC 24V) Max. 9.06 W (PoE)	AC 24V / DC24V/ Highway Kit (CA80I8-2040): Max. 110W, Suggested Power: AC 24V or DC 24V/ 5A Street/Street-A Kit (CM48I8-2040/ AI-109): Max. 78 W, Suggested Power: AC 24V or DC 24V/ 3.5A IP68, IK10	AC 24V/ DC 12V/ PoE Max. 9 W (DC 12V) Max. 18 W (AC 24V) Max. 9.06 W (PoE)	AC 24V / DC24V/ Highway Kit (CA80I8-2040): Max. 110 W, Suggested Power: AC 24V or DC 24V/ 5A Street/ Street-A Kit (AI-109): Max. 78 W, Suggested Power: AC 24V or DC 24V/ 3.5A IP68, IK10
Housing		-	Street/Highway Kit:	-	Street/Highway Kit:
Dimensions	503 (D) x 170 (W) x 400 (H) mm	255 (D) x 70 (W) x 64 (H) mm (9-50 mm) 203 (D) x 70 (W) x 61 (H) mm (12-40 mm)	503 (D) x 170 (W) x 400 (H) mm Street-A Kit: 503 (D) x 170 (W) x 365 (H) mm	255 (D) x 70 (W) x 64 (H) mm (9-50 mm) 203 (D) x 70 (W) x 61 (H) mm (12-40 mm)	503 (D) x 170 (W) x 400 (H) mm Street-A Kit: 503 (D) x 170 (W) x 365 (H) mm
Operating Temperature	-20°C ~ 60°C (-4°F ~ 140°F) -40°C ~ 60°C (-40°F ~ 140°F), with cold start heater	-10°C ~ 60°C (14°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F) -40°C ~ 60°C (-40°F ~ 140°F), with optional cold start heater	-10°C ~ 60°C (14°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F) -40°C ~ 60°C (-40°F ~ 140°F), with optional cold start heater

* All specifications are subject to change without notice.

LPR Cameras

Forging Alliances with Global Leaders in LPR Software Develop Solutions to Capture License Plate Images for LPR Applications
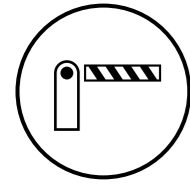
Stop & Go Application on Edge LPR Solution

The VIVOTEK on Edge LPR solution can identify license plates from over 70 countries or states simultaneously. It also converts number plates into Wiegand signals for use with an access control system, and offers various APIs for integration with 3rd party systems. The Stop & Go application on Edge LPR solution is ideally applied for parking access control and Stop & Go toll systems or any LPR applications where a vehicle stops or comes to an almost complete stop
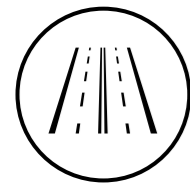
Urban Application on Edge LPR Solution

The Urban application on Edge LPR solution inherits all the best from the Stop & Go application, but in addition can capture clear plate images and LPR readings from vehicles moving at speeds of up to 60MPH (90km/hr). Additionally, to provide precise, reliable, and authoritative data for use as evidence, it can simultaneously combine the LPR result and a snapshot of the linked camera. This feature is beneficial for law enforcement agencies, such as the police and government. The Urban application on Edge LPR solution is an ideal option for city surveillance, residential communities, and expressway toll-management applications

RECOMMENDED

IB9365-LPR

- Embedded Access Control Application
- 70+ Countries' License Plates Supported
- Black and White Lists for License Plate Verification
- Centralized List Management in Single Camera

IP9165-LPR Kit (Street)

- Embedded LPR Software for Urban/Road Applications
- Capture Vehicle Speed up to 60MPH (90km/hr)
- 70+ Countries' License Plates Supported
- Taking Snapshots from Another Related Overview Camera as Evidence Images

License Plate Recognition Cameras		
5 Megapixel		2 Megapixel

Model	IB9387-LPR	IB9365-LPR	IP9165-LPR Kit (Street)
Camera Features			
Sensor Type	1/2.7" Progressive CMOS	1/2" Progressive CMOS	1/2" Progressive CMOS
Lens Type/ Focal Length/ F-number	Motorized/ 2.7 ~ 13.5 mm/ F1.4 ~ F2.8	Motorized/ 12 ~ 40 mm/ F1.8	Remote Back Focus i-CS/ 9 ~ 50 mm [IP9165-LPR (9-50 mm)] 12 ~ 40 mm [IP9165-LPR (12-40 mm)]/ F1.5 ~ F1.6 [IP9165-LPR (9-50 mm)] F1.8 ~ F2.3 [IP9165-LPR (12-40 mm)]
Field of View	100° ~ 30° (H) 72° ~ 23° (V)	35° ~ 12° (H) 19° ~ 7° (V)	IP9165-LPR (9-50 mm): 42.8° ~ 8.3° (H), 24.3° ~ 4.7° (V) IP9165-LPR (12-40 mm): 34.2° ~ 11.6° (H), 18.7° ~ 6.6° (V)
Day/Night	●	●	●
IR Illuminators	50 m, IR LED*6	100 m, IR LED*5	Snap-in IR Illuminator (AI-109)
Min. Illumination	0.06 lux @ F1.4 (Color) <0.01 lux @ F1.4 (B/W) 0 lux with IR illumination on	0.06 lux @ F1.8 (Color), 50IRE 0.03 lux @ F1.8 (Color), 30IRE <0.01 lux @ F1.8 (B/W) 0 lux with IR illumination on	IR Threshold: 300 lux @ IR On 600 lux @ IR Off RS485 configurable
Max. Resolution/ Frame Rate	30 fps @ 2560x1920 60 fps @ 1920x1080	60 fps @ 1920x1080	60 fps @ 1920x1080
WDR Technology*	WDR Pro	WDR Pro II	WDR Pro II
On-board Storage	MicroSD/SDHC/SDXC card slot Build in 16GB Micro SD Card for LPR images	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot Build in 32GB Micro SD Card for LPR images
Video/ Audio/ Network			
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Audio	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)
Digital Input/ Output	1/1	2/2	2/2
ONVIF	Profile S/G	Profile S/G	Profile S/G
Solution Integration			
VIVOCloud	-	-	-
Security	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security
VCA	-	-	-
General			
Power Input/ Consumption	AC 24V (optional)/ DC 12V/ PoE Max. 12 W	AC 24V/ DC 12V/ PoE Max. 11.9 W	AC 24V/ DC24V/ Max. 78 W
Housing	IP66, IP67, IK10 (Metal housing)	IP66, IP67, IK10 (Metal housing), NEMA 4X	IP66, IP67, IK10
Dimensions	118 x 118 x 294 mm	344 x 121 x 121 mm (w/ junction box)	503 (D) x 170 (W) x 365 (H) mm
Operating Temperature	-30°C ~ 60°C (-22°F ~ 140°F)	-30°C ~ 60°C (-22°F ~ 140°F)	-20°C ~ 60°C (-4°F ~ 140°F) -40°C ~ 60°C (-40°F ~ 140°F), with optional cold start heater

NEW

* All specifications are subject to change without notice.

*WDR Pro Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is between 100dB and 140dB. *WDR Pro II Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is higher than 140dB. *SNV Supreme Night Visibility, by professionally integrating superior optical components and sophisticated video algorithms, SNV cameras present Supreme Night Visibility in low light conditions. *i-CS Intelligent CS-mount lenses can be used for add-on value functions, ex. remote zoom focus control, distortion correction, shading correction, etc. *AEB (Auto Exposure Bracketing) Provides multiple streams with different exposure settings to cover over-exposed and under-exposed scenarios.

Speed Dome Cameras

All-inclusive Solutions for Great Video Quality in Challenging Lighting Conditions from Indoor to Severe Outdoor Environments
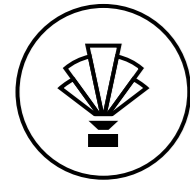
Vari-Angle IR
Automatic IR range adjustment to match optical zoom provides consistent IR images in all fields of view
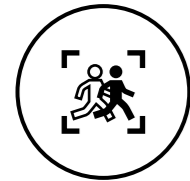
Smart Tracking*
Innovative deep-learning algorithm to increase accuracy when tracking people in motion

Outdoor Ready
Designed for outdoor environments with IP66 and IK10 certification as well as NEMA 4X

RECOMMENDED

SD9374-EHL
- 4MP 2560x1440
- 36x Optical Zoom
- 250m VAIR
- Smart Tracking

SD9366-EH-v2
- 2MP 1920x1080
- 30x Optical Zoom
- 250m VAIR
- NEMA 4X

* Only SD9374-EHL supports Smart Tracking

	Speed Dome Cameras				
	5 Megapixel	4 Megapixel		2 Megapixel	
Model	**SD9384-EHL**	**SD9374-EHL**	**SD9161-H**	**SD9362-EH-v2/EHL**	**SD9364-EH-v2/EHL-v2**
Camera Features					
Sensor Type	1/2.8" Progressive CMOS	1/2" Progressive CMOS	1/3" Progressive CMOS	1/2.8" Progressive CMOS (SD9362-EH-v2) 1/3" Progressive CMOS (SD9362-EHL)	1/2.8" Progressive CMOS (SD9362-EH-v2) 1/3" Progressive CMOS (SD9364-EHL-v2)
Lens Type/ Focal Length/ F-number	30x Optical Zoom Auto Focus/ 5.2 ~ 148.4 mm/ F1.3~4.6	36x Optical Zoom Auto Focus/ 6 ~ 216 mm / F1.5 ~ F4.8	10x Optical Zoom Auto Focus/ 5.1 ~ 51 mm/ F1.6 ~ F1.8	30x Optical Zoom Auto Focus/ 4.3 ~ 129 mm/ F1.6 ~ F4.7	30x Optical Zoom Auto Focus/ 4.3 ~ 129 mm/ F1.6 ~ F4.7
Field of View	54° ~ 2° (H) 42° ~ 1.5° (V)	49.27° ~ 1.85° (H) 28.93° ~ 1.04° (V)	54° ~ 4.9° (H) 31° ~ 4° (V)	SD9362-EH-v2: 64° ~ 2.3° (H), 36° ~ 1.3° (V) SD9362-EHL: 59° ~ 2° (H), 45° ~ 2° (V)	SD9362-EH-v2: 64° ~ 2.3° (H), 36° ~ 1.3° (V) SD9362-EHL: 59° ~ 2° (H), 45° ~ 2° (V)
Day/Night	●	●	●	●	●
IR Illuminators	200m, IR LED*8	250 m, IR LED *2	-	-	250/150 m, IR LED*2
Min. Illumination	TBD	0.19 lux @ F1.5 (Color) 0.01 lux @ F1.5 (B/W) 0 lux with IR illumination on	0.2 lux @ F1.6 (Color) 0.01 lux @ F1.6 (B/W)	SD9362-EH-v2: 0.195 lux @ F1.6 (Color) 0.01 lux @ F1.6 (B/W) SD9362-EHL: 0.42 lux @ F1.6 (Color) 0.01 lux @ F1.6 (B/W)	SD9364-EH-v2: 0.195 lux @ F1.6 (Color) 0.01 lux @ F1.6 (B/W) 0 lux with IR illumination on SD9364-EHL-v2: 0.42 lux @ F1.6 (Color) 0.01 lux @ F1.6 (B/W) 0 lux with IR illumination on
Max. Resolution/ Frame Rate	30 fps @ 2592x1944	30 fps @ 2560x1440	30 fps @ 1920x1080	60 fps @ 1920x1080	60 fps @ 1920x1080
WDR Technology*	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro
On-board Storage	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Video/Audio/Network					
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Audio	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)	Two-way Audio (Full duplex)
Digital Input/ Output	2/1	4/2	4/2	4/2	4/2
ONVIF	Profile G/S/T	Profile G/S/T	Profile G/S/T	Profile G/S/T	Profile G/S/T
Solution Integration					
Cloud Service	-	-	-	-	-
Security	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security	Trend Micro IoT Security
VCA	Smart tracking advanced	Smart Tracking	-	-	-
General					
Power Input/ Consumption	AC 24V/ DC 48V/ IEEE 802.3 bt PoE Max. TBD	AC 24V/ DC 24V/ PoE/ 95W PoH AC 24V/DC 24V: Max. 63/45 W (Heater on/ off) PoH/PoE (95W): Max. 70/51 W (Heater on/ off)	AC 24V/ DC 24V/ PoE Max. 15 W	AC 24V/ DC 24V/ 60W UPoE AC/DC 24V: Max. 40/21 W(Heater on/off) PoE (60W): Max. 48/26 W (Heater on/off)	AC 24V/ DC 24V/ PoE/ 95W PoH AC/DC 24V: Max. 63/45 W (Heater on/off) PoH/PoE (95W): Max. 70/51 W (Heater on/ off)
Housing	IP66, IK10, NEMA 4X	IP66, IK10, NEMA 4X	-	IP68, IK10, NEMA 4X	IP66, IK10, NEMA 4X
Dimensions	TBD	237 x 364 mm	Ø172 x 157 mm	Ø162 x 221 mm	237 x 364 mm
Operating Temperature	TBD	-40°C ~ 55°C (-40°F ~ 131°F)	-10°C ~ 55°C (14°F ~ 131°F)	-40°C ~ 55°C (-40°F ~ 131°F)	-40°C ~ 55°C (-40°F ~ 131°F) -50°C ~ 55°C (-58°F ~ 131°F) (AC 24V/ PoH)

* All specifications are subject to change without notice.

Speed Dome Cameras

2 Megapixel

Model	SD9366-EH-v2/EHL
Camera Features	
Sensor Type	1/2.8" Progressive CMOS (SD9366-EH-v2) 1/3" Progressive CMOS (SD9366-EHL)
Lens Type/ Focal Length/ F-number	30x Optical Zoom Auto Focus/ 4.3 ~ 129 mm/ F1.6 ~ F4.7
Field of View	SD9362-EH-v2: 64° ~ 2.3° (H), 36° ~ 1.3° (V) SD9362-EHL: 59° ~ 2° (H), 45° ~ 2° (V)
Day/Night	●
IR Illuminators	250/150 m, IR LED*2
Min. Illumination	SD9366-EH-v2: 0.195 lux @ F1.6 (Color) 0.01 lux @ F1.6 (B/W) 0 lux with IR illumination on SD9366-EHL: 0.42 lux @ F1.6 (Color) 0.01 lux @ F1.6 (B/W) 0 lux with IR illumination on
Max. Resolution/ Frame Rate	60 fps @ 1920x1080
WDR Technology*	WDR Pro
On-board Storage	MicroSD/SDHC/SDXC card slot
Video/Audio/Network	
Video Compression	Triple-Codec (H.265/H.264/MJPEG)
Audio	Two-way Audio (Full duplex)
Digital Input/ Output	4/2
ONVIF	Profile G/S/T
Solution Integration	
Cloud Service	-
Security	Trend Micro IoT Security
VCA	-
General	
Power Input/ Consumption	AC 24V/ DC 24V/ PoE/ 95W PoH AC/DC 24V: Max. 63/45 W (Heater on/off) PoH/PoE (95W): Max. 70/51 W (Heater on/off)
Housing	IP66, IK10, NEMA 4X
Dimensions	237 x 364 mm
Operating Temperature	-40°C ~ 55°C (-40°F ~ 131°F) -50°C ~ 55°C (-58°F ~ 131°F) (AC 24V/ PoH)

* All specifications are subject to change without notice.

*WDR Pro Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is between 100dB and 140dB. *WDR Pro II Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is higher than 140dB. *SNV Supreme Night Visibility, by professionally integrating superior optical components and sophisticated video algorithms, SNV cameras present Supreme Night Visibility in low light conditions. *i-CS Intelligent CS-mount lenses can be used for add-on value functions, ex. remote zoom focus control, distortion correction, shading correction, etc. *AEB (Auto Exposure Bracketing) Provides multiple streams with different exposure settings to cover over-exposed and under-exposed scenarios.

Video Server

Model	VS8100-v2
Features	
Video Source	1 Analog Camera Input
Video Modulation	NTSC/PAL Auto Detection
Max. Resolution/ Frame Rate	30 fps @ 720x480 / NTSC 25 fps @ 720x576 / PAL
Video/ Audio/ Network	
Video Compression	Dual-Codec (H.264/MJPEG)
Audio	One-way Audio
Networking	10/100 Mbps Ethernet
Serial Connectors	RS485
ONVIF	Profile S
Solution Integration	
Security	Trend Micro IoT Security
Motion Detection	●
General	
Power Input/ Consumption	DC 12V/ Max. 3 W
Dimensions	65 (W) x 34 (D) x25 (H) mm
Operating Temperature	0°C ~ 50 °C (32°F ~ 122°F)

* All specifications are subject to change without notice.

AI-Box
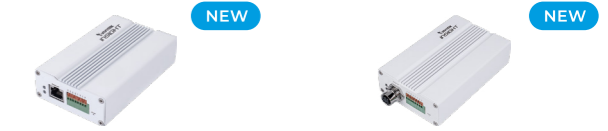
Model	IE-9111-O	IE-9111-O (M12)
Short Highlight	Driven by OSSA, S&ST OS, Edge AI, VCA	Driven by OSSA, S&ST OS, Edge AI, VCA, M12 Connector, EN50155
Decoding	H.264/H.265: 30 fps @ 3840 x 2160 (4K)	H.264/H.265: 30 fps @ 3840 x 2160 (4K)
Channel	4-CH/RTSP Streaming	4-CH/RTSP Streaming
AI Engine	Qualcomm® Neural Processing SDK, ONNX, Android NN, Caffe, 2.1 TOPS @ 1w, Caffe2, Tensorflow	Qualcomm® Neural Processing SDK, ONNX, Android NN, Caffe, 2.1 TOPS @ 1w, Caffe2, Tensorflow
VCA	Supported by S&ST APPs	Supported by S&ST APPs
Embedded App	VAST 2 Data Magnet Integration App	VAST 2 Data Magnet Integration App
Interface	RJ-45	M12 (D-code 4 pin)
Networking	10/100/1000 Mbps Ethernet	10/100 Mbps Ethernet
Power Input	IEEE 802.3af Class3 PoE	IEEE 802.3af Class3 PoE
Power Consumption	Max. 12 W	Max. 12 W
Digital Input /Output	2 / 2	2 / 2
Dimensions	123 x 74 x 30 mm	123 x 74 x 30 mm
Weight	230g	230g
Operating Temperature	-25°C ~ 55 °C (-13°F ~ 131°F)	-25°C ~ 55 °C (-13°F ~ 131°F)

* All specifications are subject to change without notice.

Accessories

Type	Enclosures				
Model	**AE-238**	**AE-239**	**AE-243**	**AE-244**	**AE-23A**
Description	Value series enclosure 24VAC/VDC input, IP68, IK10	Value series enclosure, PoE input, IP68, IK10	Value series enclosure, built-in fixed 50M IR, 24VAC/VDC input, IP68, IK10	Value Series Enclosure, built-in fixed 50M IR, PoE input, IP68, IK10	Supreme series enclosure, optional VAIR illuminator, 24VAC/28VDC input, IP68, IK10

Type	Enclosures	Covers			IR Illuminators for AE-23x Enclosures
Model	**AE-23E-v2**	**AC-215**	**AC-224**	**AC-229**	**AI-106**
Description	Supreme series enclosure, optional VAIR illuminator, PoE input, IP68, IK10	Smoked cover (Indoor speed dome)	Smoked cover (Indoor fixed dome)	IK10 Transparent cover for recessed-mount cameras	VAIR illuminator 6W for Supreme series enclosure , adjustable beam angle 10°~40°, 40~100M, -40 °C~50 °C

Type	IR Illuminators for AE-23x Enclosures	CaMate IR Illuminators			CaMate IR Accessories
Model	**AI-109**	**CM32 Series**	**CM48 Series**	**CA80 Series**	**AM-219**
Description	VAIR illuminator 48W for Supreme series enclosure, adjustable beam angle 10°~30°, 150~350M, -40 °C~50 °C	32W, 12 pcs IR LED, 850nm, 10° or 35°	48W, 24 pcs IR LED, 850nm, 10°~180° Adjustable beam angle	80W, 24 pcs IR LED, 850nm, 10°~40° Adjustable beam angle via RS485 or remote control	L Bracket for dual or triple CaMate

* All specifications are subject to change without notice.

Accessories

Type	CaMate IR Accessories				CaMate IR Accessories
Model	CMA-B01/CMA-B03	CMA-B04	CMA-B05	CMA-B06	CMA-A01
Description	L & U Bracket	Wall mount for dual camate with pan angle	Wall mount for dual camate with pan and tilt angle	Wall mount for triple camate	Laser aligment

Type	CaMate IR Accessories	Lenses			
Model	CMA-E01	AL-232	AL-237	AL-239	AL-242/AL-243
Description	Remote control	CS mount, 3.1~8mm, F1.2, DC-Iris, 1/2.7" (IP9167-HP)	CS mount, 4.1~9mm, F1.6, DC-iris, 1/1.8" (IP9181-H)	C mount, 8~80mm, F1.6, DC-iris, 1/2" (IP9165-HT/HP/LPC)	CS mount, 12.5~50 & 7~22mm, F1.4, P-iris, 1/2.7" (IP9171-HP)

Type	Lenses				
Model	AL-247	AL-248	AL-24A	AL-24B	AL-24D
Description	CS mount, 2.8~8mm, F1.2, P-iris, 1/3" (IP9171-HP)	CS mount, 12~50mm, F1.8, P-iris, 1/1.7" (IP9165-HT/HP/LPC, IP9181-H, IP9191-HP/HT)	CS mount, 12~40mm, F1.8, P-iris, 1/1.8" (IP9165-HT/HP/LPC, IP9167-HP, IP9171-H)	CS mount, 3.6~17mm, F1.5, P-iris, 1/1.8" (IP9165-HT/HP/LPC)	C Mount, 25~135mm, F1.8, P-iris, 1/1.8" (IP9165-HP/HT/LPC)

* All specifications are subject to change without notice.

Accessories

Type	Lenses			Power Adapters	Connector
Model	AL-24E	AL-251	AL-252	AA-221	AN3000
Description	CS Mount, 3.9~10mm, F1.5, P-iris, 1/1.8" (IP9165-HP/HT/LPC, IP9191-HP/HT)	CS-Mount, 3.9~10mm, F1.5, i-CS, 1/1.8" (IP9165-HT/LPC, IP9191-HT)	CS-Mount, 9 ~ 50mm, F1.5~1.6, i-CS, 1/1.8" (IP9165-HT/LPC, IP9191-HT)	DC 12V 1.5A power adapter	Outdoor Ethernet waterproof connector

Type	Joystick	Water Tank	Cable		
Model	AJ-001/AJ-002	AE-301	AO-002	AO-003	AO-004
Description	8/29-key USB Joystick	10L, low level alarm pump control via DIDO 0 °C~60 °C [for SD9365-EHL, SD9366-EH(L)]	RJ45 to M12 (4-pin) water-proof Cable (1 meter)	I/O Cable for speed dome (SD9161-H, SD9361/2/3/4-EH(L))	M12 (D Code 4-Pin Male) to RJ45 Cable (60cm)

Type	Cable			IO Device	Storage
Model	AO-005	AO-006	AO-007	AO-20W	Micron SD
Description	Power Cable with DI	IO Cable for MA9321-EHTV/MA9322-EHTV	Combo cable for speed dome (SD9365/6-EH(L))	Wiegand Convertor (IB9387-LPR/ IB9365-LPR)	Micron SD Card 32/64/128/256GB 512GB/1TB

* All specifications are subject to change without notice.

Outdoor

Application	L-Shape Wall Mount		Adapter Plate			Mounting Adapter / Conduit Box				
Model	AM-21A (V02)	AM-21M (V02)	AM-51C	AM-51D	AM-51G	AM-525	AM-528	AM-52E	AM-713+522	AM-71B+522
FD9360-H / FD9380-H										
	●				●			●		
FD9365 Series / FD9387 Series / FD9391-EHTV										
	●		●			●				●
FD9366-HV										
		●								
FD9368-HTV / FD9388-HTV / FD9389 Series										
	●			●				●		●
IT9360-H / IT9380-H / IT9389-H/HT										
		●						●		
IT9388-HT										
	●				●			●		●

* Please select the correct mounting adapter/conduit box for each mounting scenario.

Outdoor

Pendant Mount*

1

AM-116/117 → AM-114

Wall Mount*

1 AM-221 → AM-718 (Optional) →

2 AM-218 → AM-719 (Optional) →

Pole Mount*

1 AM-221 → AM-718 (Optional) → AM-314 or AM-315 →

2 AM-218 → AM-719 (Optional) → AM-312 →

Corner Mount*

1 AM-221 → AM-718 (Optional) → AM-414 →

2 AM-218 → AM-719 (Optional) → AM-312 →

* Please select the correct mounting adapter/conduit box for each mounting scenario.

Application	Indoor								
	Ceiling Mount	L-Shape Wall Mount		Wall Mount Bracket	Adapting Plate			Mounting Adapter/ Conduit Box	
Model	AM-105	AM-21A (V02)	AM-21B	AM-216	AM-514	AM-51D	AM-51E	AM-520	AM-52B
FD9166-HN			●				●		●
FD9165 Series / FD9187 Series	●	●			●				
FD9189 Series		●				●			
FE9180-H				●					●
FE9191								●	

Application	Indoor	
	Mounting Adapter/ Conduit Box	
Model	AM-527	AM-712+AM-522
FD9166-HN	●	
FD9165 Series / FD9187 Series	●	
FD9189 Series	●	
FE9180-H	●	
FE9191		

Indoor

Pendant Mount*

AM-116/117 → AM-118 →

Wall Mount*

1

AM-221 → AM-718 (Optional) →

2

AM-218 → AM-719 (Optional) →

* Please select the correct mounting adapter/conduit box for each mounting scenario.

Accessories

Outdoor		
Application	Pole Mount Adapter	Corner Mount Adapter
Model	AM-21N	AM-312	AM-412
MS9390-HV			
	●		
MS9321-EHV			
		●	●

Outdoor		
Application	Mounting Adapter / Conduit Box	
Model	AM-520	AM-525	Inbox Plate
FE9380-HV			
		●	
FE9391-EV / FE9582-EHNV			
	●		●

* Please select the correct mounting adapter/conduit box for each mounting scenario.
* To mount outdoor fisheye camera to AM-520, please use the inbox plate included with the fisheye camera.

Outdoor
Pendant Mount*

AM-116/117   AM-114

Wall Mount*

AM-221   AM-718 (Optional)   AM-218   AM-719 (Optional)

Pole Mount*

AM-221   AM-718 (Optional)   AM-314   AM-315   AM-218   AM-719 (Optional)   AM-312

Corner Mount*

AM-221   AM-718 (Optional)   AM-414   AM-218   AM-719 (Optional)   AM-312

Outdoor/ Indoor

Application	Ceiling Mount			Wall Mount Bracket	Mounting Adapter	
Model	AM-107	AM-10D	AM-10F	AM-21C	AM-529	AM-52A
MA9321-EHTV						
		●			●	●
MA9322-EHTV						
			●	●		●
SD9161-H						
	●				●		●

* Please select the correct mounting adapter/conduit box for each mounting scenario.

Outdoor/ Indoor

Pendant Mount*

1

AM-52A   AM-529   AM-116/117   AM-114

2

AM-52A   AM-529   AM-231

Wall Mount*

1

AM-21C   AM-718 (Optional)

2

AM-52A   AM-221   AM-718 (Optional)

Pole Mount*

1

AM-21C   AM-718 (Optional)   AM-314   AM-315

2

AM-52A   AM-529   AM-221   AM-718 (Optional)   AM-314   AM-315

Corner Mount*

1

AM-21C   AM-718 (Optional)   AM-414

2

AM-52A   AM-529   AM-221   AM-718 (Optional)   AM-414

Outdoor			
Application	Ceiling Mount	Wall Mount Bracket	Mounting Adapter
Model	AM-10E	AM-220	AM-529
SD9362-EH-v2 / SD9362-EHL			
	●	●	●
SD9364-EH(L)-v2 / SD9366-EH-v2 / SD9366-EHL			
		●	●
SD9374-EHL			
		●	●

* Please select the correct mounting adapter/conduit box for each mounting scenario.

Outdoor	
Cabinet	Pendant Mount*

Cabinet 1

AM-22 → AT-CAS-001

Pendant Mount* 2

AM-529 → AM-116/117 → AM-114

Wall Mount* 1

AM-220 → AM-718 (Optional)

2

AM-529 → AM-221 → AM-718 (Optional)

Pole Mount* 1

AM-220 → AM-718 (Optional) → AM-314 or AM-315

2

AM-529 → AM-221 → AM-718 (Optional) → AM-314 or AM-315

Corner Mount* 1

AM-220 → AM-718 (Optional) → AM-414

2

AM-529 → AM-221 → AM-718 (Optional) → AM-414

	Outdoor						
Application	Wall Mount Bracket	Pole Mount Adapter	Corner Mount Adapter	Adapting Plate	Junction Box		
Model	AM-21D/AM-21E	AM-312	AM-412	AM-523	AM-719	AM-71C	AM-71E
AE Series	●						
IB9360-H / IB9380-H		●	●	●		●	●
IB9365 Series / IB9387 Series / IB9391-EHT		●	●		●		
IB9368-HT / IB9388-HT / IB9389 Series		●	●	●		●	
TB9330-E / TB9331-E		●	●				

* Please select the correct mounting adapter/conduit box for each mounting scenario.

*WDR Pro Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is between 100dB and 140dB. ***WDR Pro II** Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is higher than 140dB. ***SNV** Supreme Night Visibility, by professionally integrating superior optical components and sophisticated video algorithms, SNV cameras present Supreme Night Visibility in low light conditions. ***i-CS** Intelligent CS-mount lenses can be used for add-on value functions, ex. remote zoom focus control, distortion correction, shading correction, etc. ***AEB (Auto Exposure Bracketing)** Provides multiple streams with different exposure settings to cover over-exposed and under-exposed scenarios.

Accessories

AIoT Surveillance Solution

Empowering AI on Surveillance Systems

VIVOTEK debuts its iNSIGHT series solutions driven by the Open Security & Safety Alliance. OSSA® is founded by VIVOTEK and 4 leading companies in IP surveillance industry. The iNSIGHT series solutions represent the future of implementing an open platform in physical surveillance products, enabling system integrators, software application developers and users to cooperatively create in an open, efficient, and intelligent AI video age.

open security & safety alliance | iNSIGHT

Upgrade your Network Cameras to AIoT Devices via Clicks

Video Streaming for Recording

IP Camera

IE-9111O

Events & Metadata

VAST 2

Events & Metadata

FD9392-EHTV-O

Video Streaming for Recording

Add New Features to Existing Installation

S&ST App Store

Security & Safety Things

Security & Safety Things is a company that cooperates closely with the Open Security and Safety Alliance (OSSA) . It provides an Android-based operating system and an application store (S&ST App Store) for all alliance members' devices to leverage.

Hasten your Time to Market with Ease

Reduce development time

Eliminates the need to develop apps individually for specific cameras. You can now simply install diverse apps from the S&ST App Store.
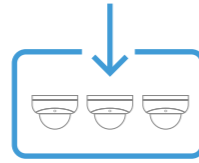
Deploy AI technologies on demand

Discarding the difficulties of development, you can now pick the right apps that fulfill your needs from the App store, discover the world of AI technology anytime, and remove them on demand.

Secure your systems anytime, anywhere

All the OSSA devices and Apps are certified to assure cybersecurity, protecting your data & privacy. The database & new features can be updated online.

Applications

Pantograph Security	Face Mask Detection	Retail (Counting / Heatmap)	PPE Inspection	Seat-Occupancy Detection	Gun Detection	Fire and Smoke Detection

Driven by OSSA

AI-Box

Model	IE-9111-O	IE-9111-O (M12)
Short Highlight	OSSA Driven, S&ST OS, Edge AI, VCA	OSSA Driven, S&ST OS, Edge AI, VCA, M12 Connector, EN50155
Decoding	H.264/H.265: 30 fps @ 3840 x 2160 (4K)	H.264/H.265: 30 fps @ 3840 x 2160 (4K)
Channel	4-CH/RTSP Streaming	4-CH/RTSP Streaming
AI Engine	Qualcomm® Neural Processing SDK, ONNX, Android NN, Caffe, 2.1 TOPS @ 1w, Caffe2, Tensorflow	Qualcomm® Neural Processing SDK, ONNX, Android NN, Caffe, 2.1 TOPS @ 1w, Caffe2, Tensorflow
VCA	Supported by S&ST APPs	Supported by S&ST APPs
Embedded App	VAST 2 Data Magnet Integration App	VAST 2 Data Magnet Integration App
Interface	RJ-45	M12 (D-code 4 pin)
Networking	10/100/1000 Mbps Ethernet	10/100 Mbps Ethernet
Power Input	IEEE 802.3af Class3 PoE	IEEE 802.3af Class3 PoE
Power Consumption	Max. 12 W	Max. 12 W
Digital Input /Output	2 / 2	2 / 2
Dimensions	123 x 74 x 30 mm	123 x 74 x 30 mm
Weight	230g	230g
Operating Temperature	-25°C ~ 55 °C (-13°F ~ 131°F)	-25°C ~ 55 °C (-13°F ~ 131°F)

* All specifications are subject to change without notice.

8MP Fixed Dome

Model	FD9392-EHTV-O
Camera Features	
Sensor Type	1/1.8" Progressive CMOS
Lens Type/ Focal Length/ F-number	Motorized/ 3.9 ~ 10 mm / F1.5 ~ F2.7
Field of View	119° ~ 45° (H) 63° ~ 25° (V)
Day/Night	●
IR Illuminators	50 m, IR LED*5
Min. Illumination	0.28 lux @ F1.5 (Color) 0.005 lux @ F1.5 (B/W) 0 lux with IR illumination on
Max. Resolution/ Frame Rate	30 fps @ 3840x2160
WDR Technology*	TBD
On-board Storage	TBD
Video/ Audio/ Network	
Video Compression	Dual-Codec (H.265/H.264)
Audio	TBD
Digital Input/ Output	1/1
ONVIF	TBD
Solution Integration	
VIVOCloud	–
Security	Secure boot
VCA	Supported by S&ST APPs
General	
Power Input/ Consumption	AC 24V/ DC 12V/ PoE Max. 25 W (Heater on)
Housing	IP66, IP67, IK10, NEMA 4X
Dimensions	Ø155 x 138 mm
Operating Temperature	-50°C ~ 60°C (-58°F ~ 140°F)

Network Video Recorders

Naming Rule

For NVR Model

ND	9	3	2	2	P	-	v2
1-2nd	3rd	4th	5th	6th	7th		8th

1-2nd Model Category

Code	Description
NR	Rack Mount Type Network Video Recorder (Include Rack Mount Kit)
ND	Desktop Type Network Video Recorder (Without Rack Mount Kit)
NV	Vehicle Type Network Video Recorder
RX	Network Receiver
NS	Network Station (CMS Station)

3rd A/V Type

NO.	Description
8	H.264 / MJPEG
9	H.265 / H.264 / MJPEG

4th Amount of Channel

NO.	Description
2	2 to the power of 2 = 4 Channels
3	2 to the power of 3 = 8 Channels
4	2 to the power of 4 = 16 Channels
5	2 to the power of 5 = 32 Channels
6	2 to the power of 6 = 64 Channels
7	2 to the power of 7 = 128 Channels

5th ND/NV/RX Series - HDDs

NO.	Description
0	No HDD
1	1 HDD
2	2 HDDs
3	3 HDDs
4	4 HDDs
5	5 HDDs
6	6 HDDs
7	7 HDDs
8	8 HDDs
9	9 HDDs

*e.g., 5th no.=8; 6th no.=2, Total HDD= 8 x 2= 16

5th NR Series - HDD Group

NO.	Description
8	8 HDD for 1 Group

6th Revision for ND/NV/RX Series

NO.	Description
1~9	Not Specified

6th Revision for NR* Series

NO.	Description
1~9	Multiplied by the Number of HDD Group

7th Extension/Feature for ND/NV/RX

NO.	Description
P	PoE
W	Wireless Application

7th Extension for NR/NS Series

NO.	Description
(A)	New version

8th Digit Extension

NO.	Description
v	1 - 99

Core+

Advanced Firmware for NVR

Cybersecurity Management

In alliance with world-renowned cybersecurity company Trend Micro, Core+ NVRs support Trend Micro IoT Security, empowering the NVRs to automatically detect and prevent credential-based attacks and to block suspicious events. VIVOTEK network cameras that support Trend Micro IoT Security can also connect in series with Core+ NVRs, enabling the NVRs to receive instant notifications of the security events from the cameras and to understand the type and status of cyber-attacks, as well as to acquire attack information from cameras. In addition, VAST 2 (VMS) receives information on security protection attacks from Core+ NVRs and VIVOTEK cameras.

VIVOTEK Core+ is the new generation ND series network video recorder firmware, embedded with VIVOTEK's latest technology including features such as cybersecurity management, Smart VCA event search, Smart Search II functions, and counting solutions. Upgrade your network video recorder's ability to Core+ for a smarter, safer and smoother user experience.
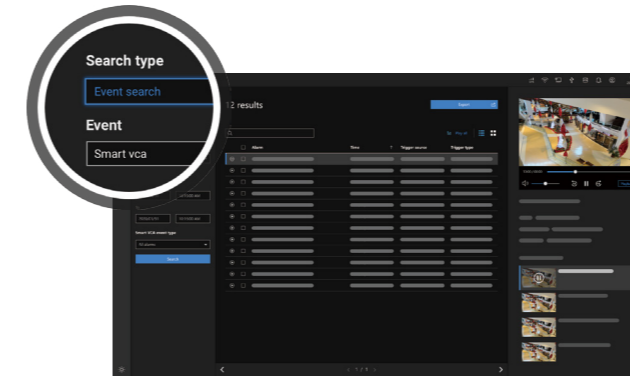
Smart VCA Event Search

The Core+ NVRs support alarm management and event search of VIVOTEK's deep-learning video analytics technology - Smart VCA. VCA rules and information such as people-tracking frames and motion-detection frames can be shown on live or playback video display. The user can search by single or multiple event types, playback triggered events and then export these search results to video clips.
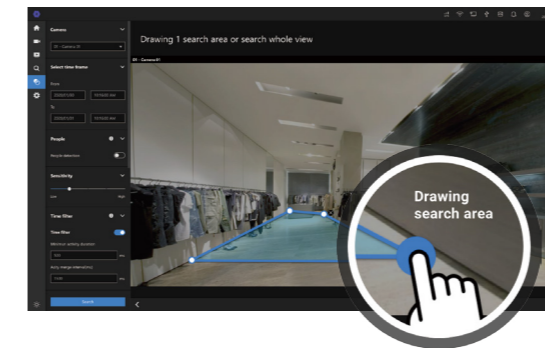
Smart Search II

Cameras supporting VIVOTEK Smart Motion Detection technology, which detects people activities, can also connect with Core+ NVRs. Based on the camera metadata recorded on the hard drive of the NVRs, the NVRs can then deploy the advanced Smart Search II technology, activate the people detection function, and proceed to search the corresponding playback video. This allows for faster sorting through large amounts of evidence to find precisely what is needed.
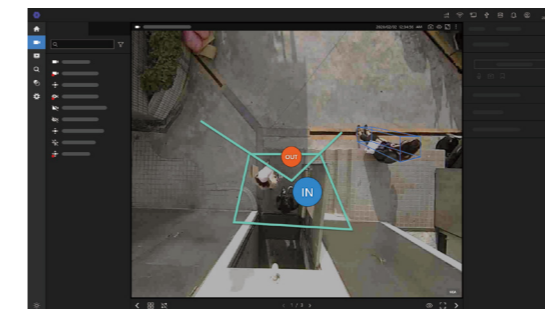
Counting Solution

The Core+ NVRs support VIVOTEK's 3D people counting cameras and cloud service software – VIVOCloud. Counting rules can be shown on the NVR's video display from counting cameras. Besides, all of the counting data can be stored automatically to the NVR's hard drive as well as be acquired by VIVOCloud. Users can also build customized counting reports through the VIVOCloud interface. This enables tracking of in-store guest flow and benchmarking of campaign performance between different stores or across different time frames to make business more efficient.

Desktop NVR

Intelligent Features and Cybersecurity Protection, Ideal for Middle-large Scale Systems and General Surveillance
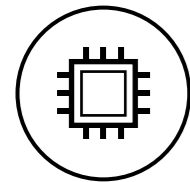
Core+
VIVOTEK Core+ supporting Smart VCA, Smart Search II and Cybersecurity Management, offering a smarter and smoother user experience
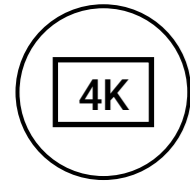
4K Display
H.265/H.264 supported, 4K decoding and local display for clear and vivid monitoring
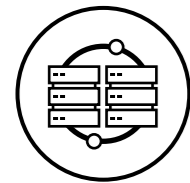
RAID Supported*
RAID 0/1/5 configuration provides further data security in rare event of a hard drive failure
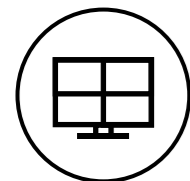
CMS Management
License-free for VIVOTEK VAST 2 CMS management, empowering users to set up and manage surveillance systems with ease

RECOMMENDED

ND9441(P)/ ND9541(P)

- H.265 16/32CH 4 bay NVR series
- Decoding 1080p x480fps
- RAID 0/1/5
- 802.3 at/af PoE x16, 1 60W total (for PoE model)

ND9322P-v2/ ND9424P-v2

- H.265 8/16CH 2 bay NVR series
- Decoding 1080p x120fps
- RAID 0/1
- 802.3 at/af PoE x8/16, 120W/200W total

* Available on selected models

Network Video Recorders					
Model	**ND9441/ ND9541**	**ND9441P/ ND9541P**	**ND9322P-v2/ ND9424P-v2**	**ND9323P/ ND9425P**	**ND9312**
Local Display					
Channels	Up to 16/32 channels	Up to 16/32 channels	Up to 8/16 channels	Up to 8/16 channels	Up to 8 channels
Video Output	HDMI/VGA	HDMI/VGA	HDMI/VGA	HDMI/VGA	HDMI
Display Resolution	3840x2160/ 1920x1080/ 1280x720	3840x2160/ 1920x1080/ 1280x720	3840x2160/ 1920x1080/ 1280x720	3840x2160/ 1920x1080/ 1280x720	3840x2160/ 1920x1080/ 1280x720
Fisheye Dewarp	●	●	●	●	●
Video/ Record					
Video Compression	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
Max. Decoding Capability	H.265/H.264: 3840x2160 @ 120 fps	H.265/H.264: 3840x2160 @ 120 fps	H.265/H.264: 3840x2160 @ 30 fps	H.265/H.264: 3840x2160 @ 30 fps	H.265/H.264: 3840x2160 @ 30 fps
Decoding Resolution (Local)	Up to 4096x4096 (H.265) Up to 8192x8192 (H.264)	Up to 4096x4096 (H.265) Up to 8192x8192 (H.264)	Up to 3840x2160	Up to 3840x2160	Up to 3840x2160
Recording Throughput	192 Mbps	192 Mbps	128 Mbps	TBD	48 Mbps
Storage/ General					
Hard Disk	3.5" SATA HDD*4	3.5" SATA HDD*4	3.5" SATA HDD*2	3.5" SATA HDD*2	3.5" SATA HDD*1
RAID	RAID 0, 1, 5	RAID 0, 1, 5	RAID 0, 1	RAID 0, 1	-
PoE	-	16x 802.3at/af Compliant PoE Ports (Total Max. 160 W)	8/16x 802.3at/af Compliant PoE Ports (Total Max. 120 W/200 W)	8/16x 802.3at/af Compliant PoE Ports (Total Max. 130 W/200 W)	-
Connectors	Ethernet 10/100/1000 RJ45 *2 Alarm In *8, Alarm Out *4 USB 2.0 *2, USB 3.0 *1 Audio Output *1 Audio Input *1 (Reserved) RS485 (Reserved)	Ethernet 10/100/1000 RJ45 *2 Alarm In *8, Alarm Out *4 USB 2.0 *2, USB 3.0 *1 Audio Output *1 Audio Input *1 (Reserved) RS485 (Reserved)	Ethernet 10/100/1000 RJ45 *1 Alarm In *4, Alarm Out *1 USB 2.0 *1, USB 3.0 *1 Audio Output *1 Audio Input *1 (Reserved)	Ethernet 10/100/1000 RJ45 *1 Alarm In *4, Alarm Out *1 USB 2.0 *1, USB 3.0 *1 Audio Output *1 Audio Input *1 (Reserved)	Ethernet 10/100 RJ45 *1 USB 2.0 *2
Power Input	DC 56V 2.32A	AC 100 ~ 240V/ 50 ~ 60Hz	AC 100 ~ 240V/ 50 ~ 60Hz	AC 100 ~ 240V/ 50 ~ 60Hz	DC 12V 3A
Power Consumption	Max. 76 W	Max. 260 W	Max. 170 W/250 W	Max. 170 W/250 W	Max. 15 W
Installation, Management, and Maintenance	VAST 2, Shepherd, VIVOCloud, iViewer (iOS/ Android)	VAST 2, Shepherd, VIVOCloud, iViewer (iOS/ Android)	VAST 2, Shepherd, VIVOCloud, iViewer (iOS/ Android)	VAST 2, Shepherd, VIVOCloud, iViewer (iOS/ Android)	VAST 2, Shepherd, VIVOCloud, iViewer (iOS/ Android)
Dimensions	430 (W) x 400 (D) x 44.5 (H) mm	430 (W) x 400 (D) x 44.5 (H) mm	360 (W) x 311 (D) x 44 (H) mm	360 (W) x 311 (D) x 44 (H) mm	198 (W) x 200 (D) x 47(H) mm
Advanced Features					
Core+	●	●	●	TBD	-
Cybersecurity Management	●	●	●	-	-
Trend Micro IoT Security	●	●	●	-	●

* All specifications are subject to change without notice.

Rack Mount NVR

Superb Performance and Reliability for Large Scale Systems
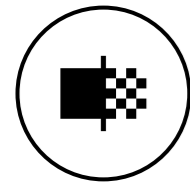
### Enhanced Decoding Capability

H.265/H.264 supported with enhanced decoding capability for high resolution video cameras up to 20MP
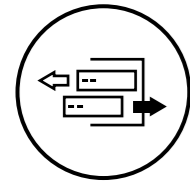
Hot-Swappable HDD

Supports Hot-Swappable HDD bays with RAID 0/1/5/6/10, and NVR failover for reliable and secure recording data
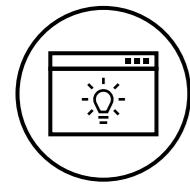
Embedded VAST 2

Built-in VIVOTEK VAST 2, supporting various VIVOTEK solutions such as Smart VCA, Cybersecurity Management, Transportation, and License Plate Recognition
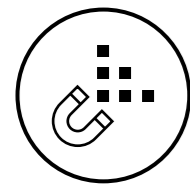
Data Magnet Solution

Embedded free Data Magnet for easy integration with 3rd party devices and software

RECOMMENDED

NR9581-v2/ NR9681-v2

- H.265 64/128CH 16 Bay NVR Series
- Decoding 1080p x 540fps (H.264)
- Hot-swappable HDD bays x16 with RAID 0/1/5/6/10
- Redundant Power

NR9581(A)/ NR9681(A)

- H.265 8/16CH 2 bay NVR series
- Decoding 1080p x300fps (H.264)
- RAID 0/1
- 802.3 at/af PoE x8/16, 120W/200W total

Rack Mount NVR

Model	NR9682-v2/ NR9782-v2	NR9581(A)/ NR9681(A)	NR9581-v2/ NR9681-v2
Display			
Channels	Up to 64/128 channels	Up to 32/64 channels	Up to 32/64 channels
Video Output	HDMI/DP/DVI	HDMI/DP/DVI/VGA	HDMI/DP
Display Resolution	HDMI: 1920x1080/ DVI: 1920x1080 DP: 4096x2304	HDMI: 3200x2000/ DP: 3200x2000 DVI/VGA: 1920x1200	HDMI: 4096x2160 DP: 4096x2304
Fisheye Dewarp	●	●	●
Video/ Record			
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Max. Decoding Capability	H.264: 1920x1080 @ 540 fps H.265: 1920x1080 @ 270 fps	H.264: 1920x1080 @ 300 fps H.265: 1920x1080 @ 150 fps	H.264: 1920x1080 @ 540 fps H.265: 1920x1080 @ 270 fps
Decoding Resolution (Local)	Up to 8192x8192	Up to 8192x8192	Up to 8192x8192
Recording Throughput	512 Mbps	512 Mbps	512 Mbps
Storage/ General			
Hard Disk	3.5" SATA HDD*8 (Hot Swappable)	3.5" SATA HDD*8 (Hot Swappable)	3.5" SATA HDD*8 (Hot Swappable)
RAID	RAID 0, 1, 5, 6, 10	RAID 0, 1, 5, 6, 10	RAID 0, 1, 5, 6, 10
Connectors	Ethernet 10/100/1000 RJ45 * 2 USB 2.0 x2, USB 3.0 x8 Microphone Audio Jack Input x1 3.5 Line Output Audio Jack x1	Ethernet 10/100/1000 RJ45 * 2 USB 2.0 x4, USB 3.0 x2 Microphone Audio Jack Input x1 3.5 Line Input Audio Jack x1 3.5 Line Output Audio Jack x1	Ethernet 10/100/1000 RJ45 * 2 USB 3.0 Type-A x3, USB 3.0 Type-C x1 Microphone Audio Jack Input x1 3.5 Line Input Audio Jack x1 3.5 Line Output Audio Jack x1
Power Input	Redundant Power AC 100 ~ 240V/ 50 ~ 60Hz	Redundant Power AC 100 ~ 240V/ 50 ~ 60Hz	Redundant Power AC 100 ~ 240V/ 50 ~ 60Hz
Power Consumption	Max. 550 W	Max. 740 W	Max. 600 W
Installation, Management, and Maintenance	VAST 2, Shepherd, iViewer (iOS/Android)	VAST 2, Shepherd, iViewer (iOS/Android)	VAST 2, Shepherd, iViewer (iOS/Android)
Dimensions	435 (W) x 540 (D) x 132 (H) mm	437 (W) x 648 (D) x 89 (H) mm	437 (W) x 647 (D) x 89 (H) mm
Advanced Features			
Cybersecurity Management	●	●	●
Data Magnet	●	●	●
Failover	●	●	●
LPR Solution	●	●	●
Smart VCA Event	●	●	●
Smart Search II	●	●	●

* All specifications are subject to change without notice.

CMS Station

Compact but Powerful,
Offering All-in-One Central System Management
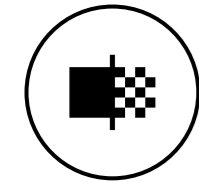
Enhanced Decoding Capability

H.265/H.264 supported with enhanced decoding capability for high resolution video cameras
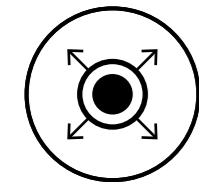
Expandable Channel

Default 32CH, expandable up to 64CH with license purchase
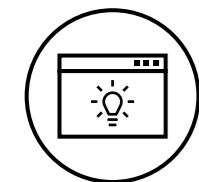
Embedded VAST 2

Built-in VIVOTEK VAST 2, supporting various VIVOTEK solutions such as Smart VCA, Cybersecurity Management, Transportation, and License Plate Recognition

CMS Station (Central Management System)

Model	NS9521
Display	
Channels	32 channels (Up to 64CH by license purchasing)
Video Output	HDMI/DP/DVI
Display Resolution	HDMI: 4096x2160/ DVI: 1920X1200 DP: 4096x2304
Fisheye Dewarp	●
Video/ Record	
Video Compression	H.265/H.264/MJPEG
Max. Decoding Capability	H.264: 1920x1080 @ 540 fps H.265: 1920x1080 @ 270 fps
Decoding Resolution (Local)	Up to 8192x8192
Recording Throughput	400 Mbps
Storage/ General	
Hard Disk	3.5" SATA HDD*2
RAID	
Connectors	Ethernet 10/100/1000 RJ45 * 2 USB 2.0 x4 USB 3.1 (type A) x2, USB 3.1 (type C) x2 Microphone Audio Jack Input x1 3.5 Line Output Audio Jack x1 COM Port x2
Power Input	AC 100 ~ 240V/ 50 ~ 60Hz
Power Consumption	Max. 250 W
Installation, Management, and Maintenance	VAST 2, Shepherd, iViewer (iOS/Android)
Dimensions	96 (W) x 365 (D) x 330 (H) mm
Advanced Features	
Cybersecurity Management	●
Data Magnet	●
Failover	●
LPR Solution	●
Smart VCA Event	●
Smart Search II	●

* All specifications are subject to change without notice.

Mobile NVR

Various Functionalities Designed for Transportation Applications
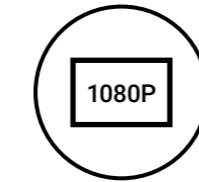
Real-time Live Display

Provides 1080p 8/16-CH real-time live display with recording efficiency using advanced H.265 video compression technology
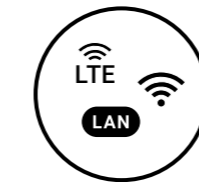
Variety of Connection Options

Offers multiple network interfaces such as LAN, WiFi and LTE for variable network connection

GPS Tracking

The embedded GNSS receiver supports GPS, GALILEO and GLONASS systems for applications in different areas

Mobile Network Video Recorder

Model	NV9311P/ NV9411P
Local Display	
Channels	Up to 8/16 channels
Video Output	HDMI x1, VGA x1
LiveView (Local) Decoding	Up to 4096x4096 (H.265) Up to 8192x8192 (H.264)
Display Resolution	3840x2160/ 1920x1080/ 1280x720
Fisheye Dewarp	●
Video/ Record	
Video Compression	H.265/H.264/MJPEG
Max. Decoding Capability	H.265/H.264: 3840x2160 @ 120 fps
Recording Throughput	64 Mbps
Network/ System	
WiFi	IEEE802.11a/b/g/n/ac (Optional)
Mobile Network	LTE (Optional)
GNSS	●
G Sensor	G-sensor Event
Storage/ General	
Hard Disk	2.5" SATA HDD/SSD x 1
Connectors	Ethernet 10/100/1000 RJ45 *1 Alarm In *8, Alarm Out *4 USB 2.0 *3, Audio In/Out *1 RS232 (Reserved)
PoE	8x 802.3at/af Compliant PoE Ports (Total Max. 64 W)
Power Input	DC 12 ~ 48V
Power Consumption	Max. 149 W
Installation, Management, and Maintenance	VAST 2, Shepherd, iViewer (iOS/Android)
Dimensions	284 (W) x 230 (D) x 90 (H) mm

* All specifications are subject to change without notice.

Video Receiver

Video Receiver	

Model	RX9401
Local Display	
Channels	Up to 16 channels
Video Output	HDMI
Display Resolution	3840x2160 1920x1080 1280x720
Fisheye Dewarp	●
Video	
Video Compression	H.265/H.264/MJPEG
Max. Decoding Capacity	H.265/H.264: 3840x2160 @ 30 fps (1CH)
LiveView Decoding (Local)	Up to 3840x2160
General	
Connectors	Ethernet 10/100 RJ45 *1 USB 2.0 *2
Power Input	DC 12V 1.5A
Power Consumption	Max. 9.24 W
Installation, Management, and Maintenance	Shepherd, VAST 2
Dimensions	198 (W) x 200 (D) x 47(H) mm

* All specifications are subject to change without notice.

Same fascinating NVR, New fascinating Experience

Explore VIVOTEK's brand new NVR web UI
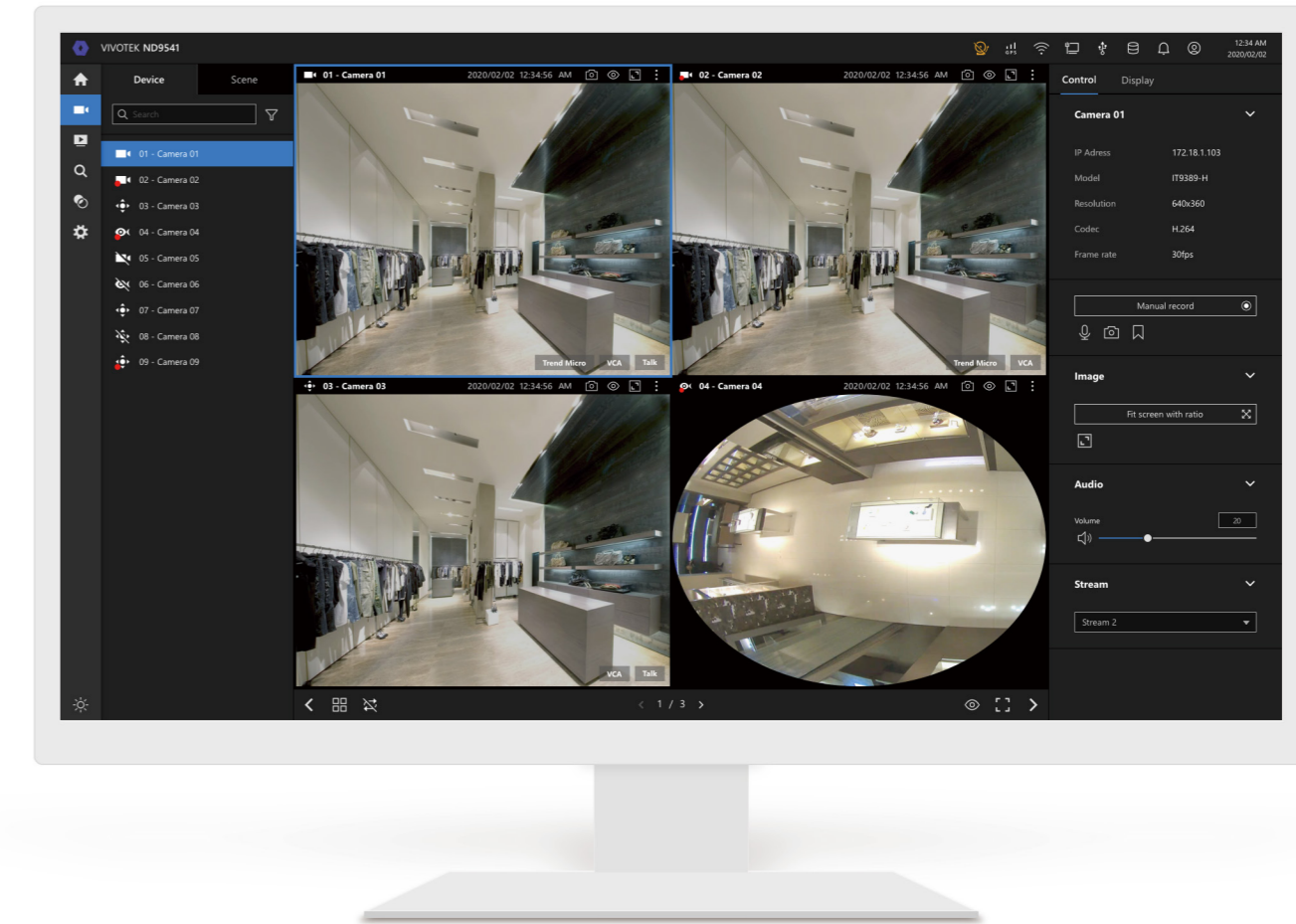
PoE Network Products

PoE Network Products

A full range of applications designed for video surveillance system, including power-surge prevention from lightning strike damage, network management, multiple topology views for cameras, and more.
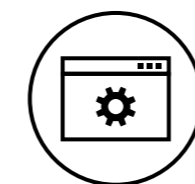
Network & PoE Management

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
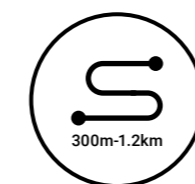
Long Range PoE Extension

300m~1.2km PoE Delivery
Daisy Chain and Ring Connection
Support Multiple Cameras with Single Power Source

RECOMMENDED

AW-GEV-267A-370

- 24xGE PoE
  + 2xGE ComboVivoCam L2+
  Managed Switch

AW-IHT-1271

- Industrial 8xGE PoE
  + 4xGE SFP VIVOCAM L2+
  Managed Switch

Commercial

Type	VivoCam L2+ Managed PoE Switch		VivoCam Web Smart Managed PoE Switch		
Model	AW-GEV-107A-130	AW-GEV-267A-370	AW-GEV-104B-130	AW-GEV-184B-250	AW-GEV-264B-370
Description	8xGE PoE + 2xGE Combo + 1xRJ45 Console	24xGE PoE + 2xGE Combo + 1xRJ45 Console	8xGE PoE + 2xGE SFP/ Per Port Max. 30W, Power Budget 130W	16xGE PoE + 2xGE SFP/ Per Port Max. 30W, Power Budget 250W	24xGE PoE + 2xGE SFP/ Per Port Max. 30W, Power Budget 370W
Type	10G L2+ Managed Switch	Unmanaged FE PoE Switch		Unmanaged GE PoE Switch	
Model	AW-GTS-287A	AW-FGT-180D-250	AW-FGT-260D-380	AW-GET-050A-065	AW-GET-100A-120
Description	20xGE SFP + 4xCombo GE + 4x10G SFP	16xFE PoE + 2xGE Combo/ Per Port Max. 30W, Power Budget 250W	24xFE PoE + 2xGE Combo/ Per Port Max. 30W, Power Budget 370W	4xGE PoE + 1xGE/ Per Port Max. 30W, Power Budget 60W	8xGE PoE + 2xGE SFP/ Per Port Max. 30W, Power Budget 115W
Type	PoE Injector		PoE Injector		
Model	AP-FIC-010A-015	AP-GIC-010A-030	AP-GIC-011A-060	AP-GIC-011A-095	
Description	Indoor 1xFE IEEE 802.3af 15.4W	Indoor 1xGE IEEE 802.3at 30W	Indoor 1xGE 60W High Power UPoE	Indoor 1xGE 95W High Power PoH/PoE	

* All specifications are subject to change without notice.

Industrial

Type	Industrial Vivocam L2+ Managed PoE Switch	Industrial Unmanaged PoE Switch			
Model	AW-IHT-1271	AW-IHT-0200	AW-IHH-0410	AW-IHT-0800	AW-IHH-0800
Description	Industrial 8xGE PoE +4xGE SFP/Per Port Max. 30W, Power Budget 240W	Industrial 1xGE PoE + 1xGE SFP/ Per Port Max. 30W, Power Budget 30W	Industrial 2xGE 95W PoH/PoE + 2xGE SFP/ Per Port Max. 95W, Power Budget 190W	Industrial 4xGE PoE + 2xGE UTP + 2xGE SFP/ Per Port Max. 30W, Power Budget 120W	Industrial 4xGE 95W PoH/PoE + 2xGE UTP + 2xGE SFP/ Per Port Max. 95W, Power Budget 240W
Type		Industrial Unmanaged PoE Switch		Industrial PoE Injector	
Model	AW-IHT-1000	AW-IHT-0601	AW-IHT-0602	AW-IHT-0100	AW-IHH-0110
Description	Industrial 8xGE PoE + 2xGE SFP/ Per Port Max. 30W, Power Budget 240W	Industrial 4xGE PoE + 1xGE Combo + 1xGE SFP/ Per Port Max. 30W, Power Budget: 24V DC ~ 56V DC: 120 W, 12V DC: 65 W	Industrial EN50155 4xFE M12 PoE + 2xFE M12/ Per Port Max. 30W, Power Budget 120W	Industrial 1xGE 30W PoE Injector	Industrial 1xGE 95W PoH/PoE Injector
Type	Industrial Media Converter				
Model	AW-IHS-0202				
Description	Industrial 1xFE + 1xFE SFP Media Converter				

* All specifications are subject to change without notice.

Long Range Solution

Type	PoE Extender		Hyper PoE Extender		
Model	AP-FXC-0110/AP-FXC-0210	AP-FXC-0160/AP-FXC-0260	AP-FHP-0105-R	AP-FHP-0100-R	AP-FHP-0105-T
Description	Indoor 1/2-Port FE PoE Extender 30W/60W/95W	Outdoor 1/2-Port FE PoE Extender 30W/60W/95W, IP67, IK10	Hyper PoE DC in Rx, 1x Hyper PoE Port, 1x FE RJ45, 1 DC Jack	Hyper PoE PoE in Rx, 1x Hyper PoE Port, 1x FE RJ45, 1 DC Jack	Hyper PoE Tx, 1x Hyper PoE Port, 1x FE RJ45, 1 DC Jack

Type	Indoor EPoC Extender		Outdoor EPoC Extender		Unmanaged EPoC Switch
Model	AP-FEX-0105-R	AP-FEX-0100-R	AP-FEX-0150-T	AP-FEX-0250-T	AW-FCT-050A-250
Description	EPoC Rx module, 1xFE RJ45, 1x BNC Port, 1x DC Jack	EPoC PoE in Rx module, 1xFE RJ45, 1x BNC Port	EPoC Outdoor Tx Module, 1x BNC, 1x FE RJ45, -40℃~60℃, IP67, IK10	EPoC Outdoor Tx Module, 1x BNC, 2x FE RJ45, -40℃~60℃, IP67, IK10	EPoC 4 x FE BNC Port + 1 x GE RJ45 Switch/Per Port Max. 60w, Power Budget 250W

Type	EPoC Conduit Box
Model	AM-713-E
Description	Outdoor Conduit Box with EPoC Tx Module for Fixed Dome, 6KV Surge Protection

* All specifications are subject to change without notice.

Outdoor

Type	Outdoor VivoCam L2+ Managed PoE Switch			Outdoor Unmanaged PoE Switch	
Model	AW-GET-086A-120	AW-GET-126A-240	AW-GEU-086A-240	AW-GET-083A-120	AW-GEH-043A-120
Description	4xGE PoE + 2xGE UTP + 2xGE SFP + 1xRJ45 Console	8xGE PoE + 4xGE SFP + 1xRJ45 Console	4xGE UPoE + 2xGE UTP + 2xGE SFP + 1xRJ45 Console	4xGE PoE + 2GE UTP + 2xGE SFP	2xGE 95W PoE + 2xGE SFP

Type	Outdoor PoE Injector	Outdoor PoE Surge Protector
Model	AP-GIC-015B-095	AP-PSP-050
Description	Outdoor 1xGE 95W High Power PoH/PoE, IP67, IK10	Outdoor PoE Surge Protector 16KV/IP67/IK10

* All specifications are subject to change without notice.

PoE

PoE Accessories

Type	Cabinet		Cabinet Accessories		
Model	AT-CAB-001	AT-CAS-001	AT-CAB-002	AT-SUN-001	AT-SUN-002
Description	Cabinet	Cabinet for Speed dome (SD936X)	Side-mount Bracket for HLG Series Power Supply	Sunshield for AT-CAx Series Cabinet	Sunshield for AT-CAx + AT-CAB-002 Cabinet

Type	Cabinet Accessories				
Model	AT-SWH-000	AT-SWH-002	AT-PSP-001	AT-WPC-001	AT-WPC-002
Description	Power Safety Kit	Door Open/Close Detection Switch	PoE Surge Protector	M16 Cable Gland for 4~7mm AWG	M16 Cable Gland for Corrugated Tubing : 5/16"

Type	Cabinet Accessories	Industrial DIN-Rail Power Supply		Industrial Wall Mount Power Supply
Model	AM-314/AM-414	MDR-10-12	NDR-75-48	NDR-120-48/NDR-240-48	HLG-60H-24
Description	Pole Mount/ Corner Mount Adapter	Indoor Industrial Din Rail, 12VDC/10W, -20°C ~ 70°C	Indoor Industrial Din Rail, 48~55VDC/120W & 240W, -20°C ~ 70°C	Indoor Industrial Din Rail, 48~55VDC/120W & 240W, -20°C ~ 70°C	Outdoor Industrial, 24VDC/60W, -40°C ~ 70°C, IP67

* All specifications are subject to change without notice.

PoE Accessories

Type	Industrial Wall Mount Power Supply				
Model	HLG-80H-24/HLG-80H-48	HLG-80H-54	HLG-120H-24/HLG-120H-48	HLG-120H-54	HLG-240H-24/HLG-240H-54
Description	Outdoor Industrial, 24VDC & 80VDC/80W, -40°C ~ 70°C, IP67	Outdoor Industrial, 54VDC/80W, -40°C ~ 70°C, IP67	Outdoor Industrial, 24VDC & 48VDC/120W, -40°C ~ 70°C, IP67	Outdoor Industrial, 54VDC/120W, -40°C ~ 70°C, IP67	Outdoor Industrial, 24VDC & 54VDC/240W, -40°C ~ 70°C, IP67

Type	Outdoor Power Box	SFP Transceiver			
Model	AA-352	SFP-1000-MM85-X5	SFP-1000-MM13-02	SFP-1000-SM13-10/40	SFP-1000-MM85-X5I
Description	IP67, IK10, 24VAC/6A, -40°C ~ 60°C	1.25G Multi-Mode SFP, 850nm, 0.5KM, 0°C ~ 70°C	1.25G Multi-Mode SFP,LC, 1310nm, 2KM, 0°C ~ 70°C	1.25G Single-Mode SFP, LC, 1310nm, 10KM & 40KM, 0°C ~ 70°C	Industrial 1.25G Multi-Mode SFP, LC, 850nm, 0.5KM, -40°C ~ 85°C

Type	SFP Transceiver			SFP+ Transceiver	
Model	SFP-1000-MM13-02I	SFP-1000-SM13-10I/40I	SFP-1000-CPTX-X1/X1I	SFP-2000-MM85-X3	SFP-2000-SM13-10
Description	Industrial 1.25G Multi-Mode SFP, LC, 1310nm, 2KM, -40°C ~ 85°C	Industrial 1.25G Single-Mode SFP, LC, 1310nm, 10KM/40KM, -40°C ~ 85°C	1000BaseT, SFP to RJ45, 100M, 0°C ~ 70°C / -40°C ~ 85°C	10G Multi-Mode SFP+, LC, 850nm, 0.3KM, 0°C ~ 70°C	10G Single-Mode SFP+, LC, 1310nm, 10KM, 0°C ~ 70°C

* All specifications are subject to change without notice.
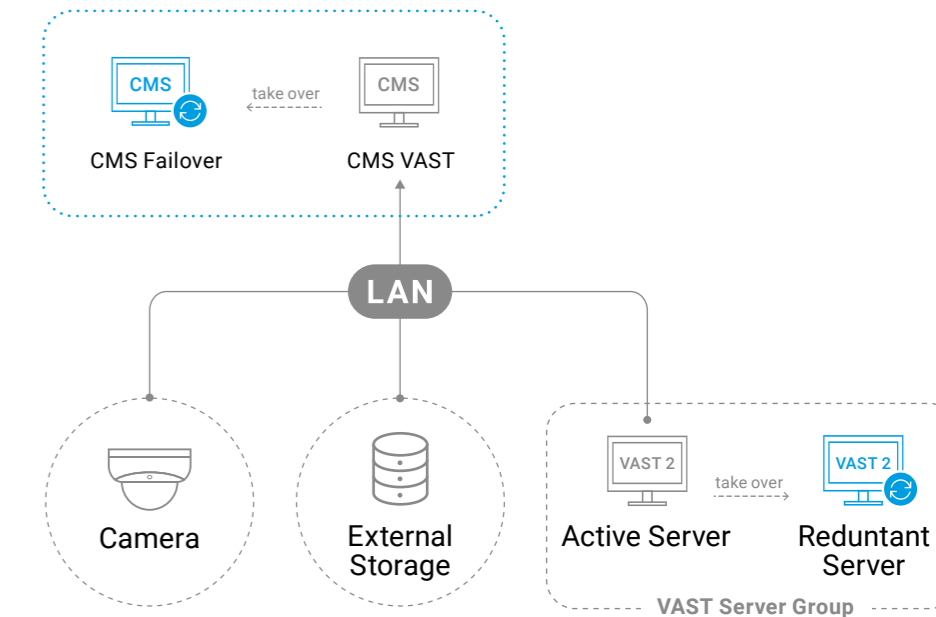
Video Management Software

VAST 2

VAST 2 is an easy to use IP video management software (VMS), provides easy operation on single or multiple monitors, rapidly export multichannel video clips and acquired VCA analytics with integrated cameras. With a wide range of add-on solutions, VAST 2 is the perfect VMS for use in retail, banking, transportation, and industrial applications.
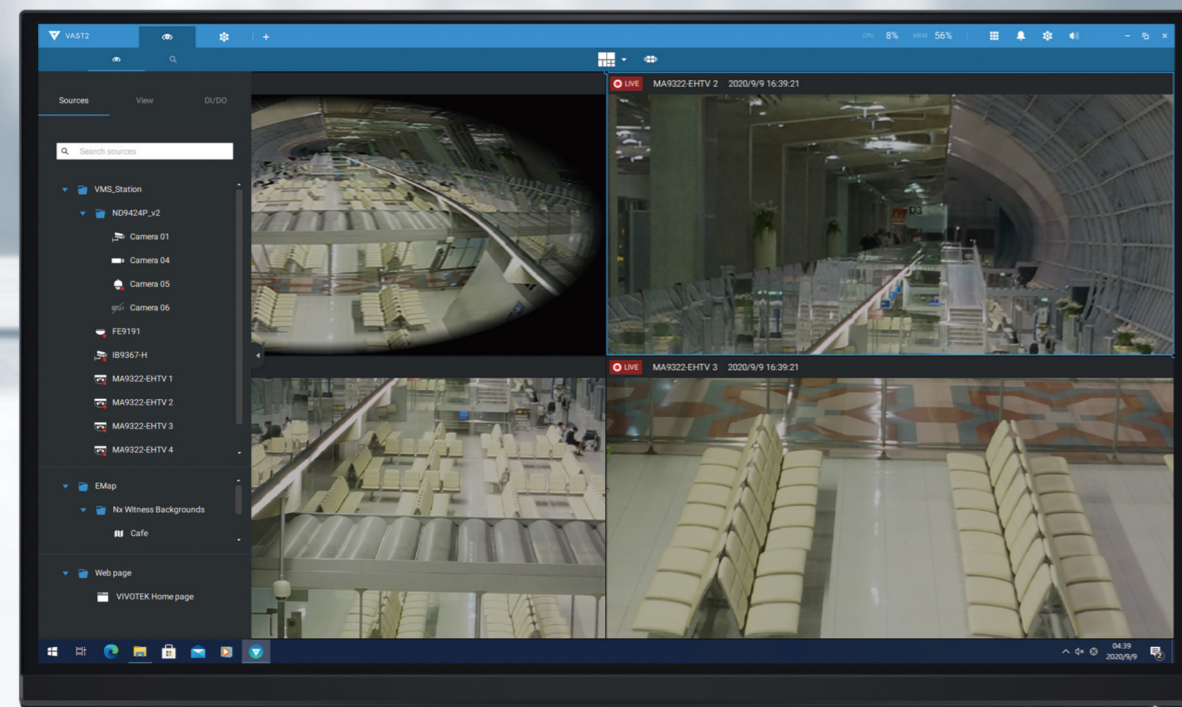
VAST 2

Change the Way You Experience VMS

Camera   Substation

VAST 2

VAST 2 Matrix   User   iViewer

CMS   CMS
take over

CMS Failover   CMS VAST

LAN

Camera   External Storage   Active Server   Reduntant Server
take over

VAST Server Group
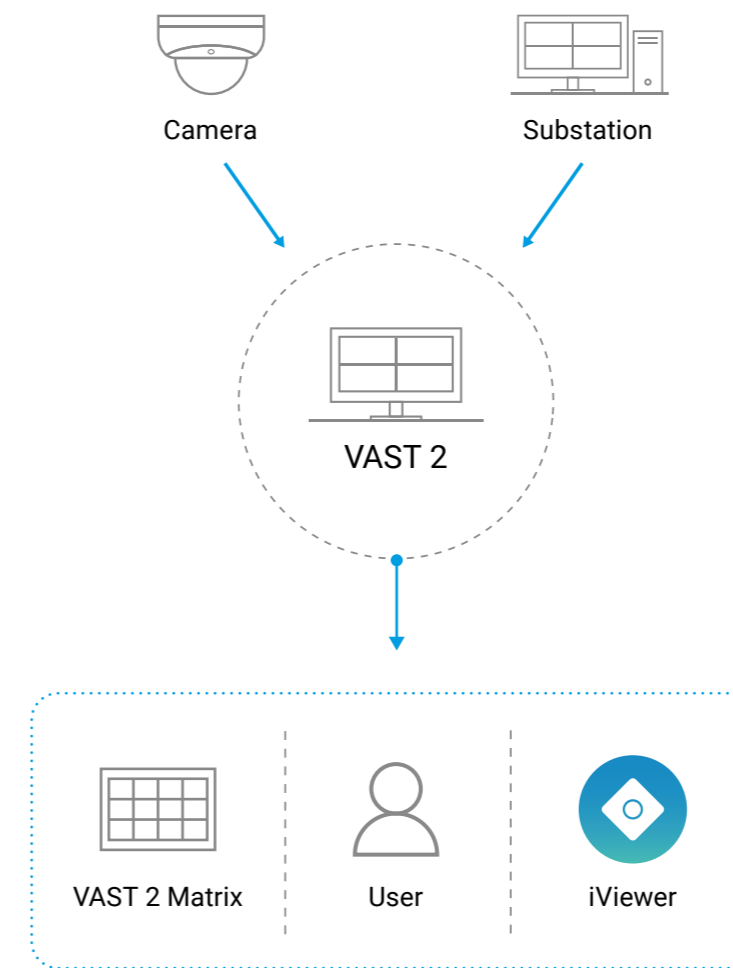
CMS / VMS Failover

In the event of server failures, redundant servers become active and automatically take over the recording task. Besides, recording and management tasks will be transferred from CMS to a CMS redundant server if CMS service becomes unavailable.

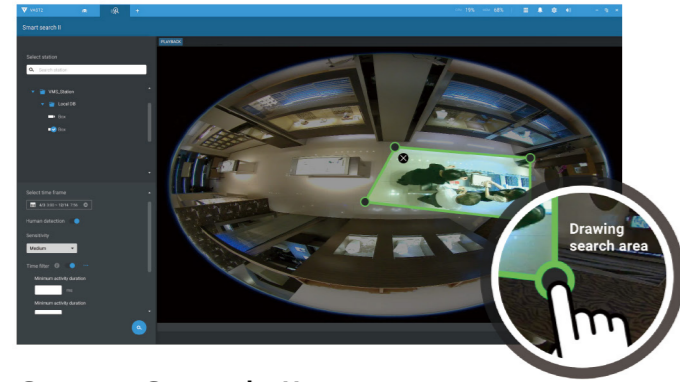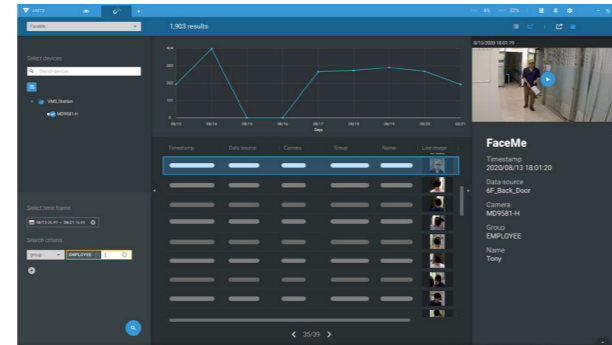## Smart Search II

Users can quickly sort through large amounts of footage to find object or person-related motion in video streaming storage. Human behaviors such as crossing a user-defined area, loitering in an area for a set time and intruding into/leaving from a zone can all serve as search criteria. Video clips can be easily found and exported.

Data Magnet

Data Magnet enables data sources from either third-party or VIVOTEK's License Plate Recognition cameras to integrate into VAST 2, providing rapid access to recording data and supporting simultaneous data display during live streaming. Users can also easily customize alarm management to receive precise notifications.

Cybersecurity Management Solution

VAST 2 provides cyber alert notifications and a real-time cyber risk dashboard to easily identify common types of cyberattacks. Users can take a further step to filter attack logs through different criteria, making it quicker to find abnormal events from among a large number of records.

License Plate Recognition Solution

VAST 2 integrates plate information from VIVOTEK's License Plate Recognition cameras. Users can view live, search and display historical data, and export results to efficiently manage parking lots security.

Video Management Software	
VAST 2	

General	
Maximum Number of Cameras	256
Maximum Number of Servers	200
Supported OS	Windows 10, 7 Windows Server 2012, 2016, 2019 (Server Core installation type is not supported) macOS 10.15 Catalina (Client Only)
Supported Mobile App	iViewer (iOS/Android)
Virtual Matrix	Supported (VAST 2 Matrix)
LiveView (Local Display)	
Max. Channels	64-channel per Monitor (the max. number of monitors supported depends on the capability of your system)
Video	
Video Format	MJPEG, MPEG4, H.264 AVC,H.264 SVC, H.265
Audio	
Audio Format	G.711, G.726, AMR, AAC
Record	
Additional Recording Time for Event Recording (sec.)	Pre-Record: 3-15, Post-Record: 10-60
Recording Mode	Continuous, Event, Customized Schedule, Activity Adaptive Streaming
Recording File Format	3 GP
External Storage Recording	NAS (SMB/CIFS), iSCSI
Alarm Management	
Alarm Period (sec.)	Max. 30
Event	Camera Event, System Event, External Devices Event
Data Magnet	
Data Source Type	VIVOTEK License Plate Recognition, Third party data source
Data Display	Separate data section or Data overlay on screen
Search Result Export	.csv / .png file
eMap	
Supported Image Format	BMP, GIF, JPG, PNG, SVG

Export	
Snapshot	PNG & JPEG
Export File	3GP & EXE
Backup	
External Storage Backup	NAS (SMB/CIFS), iSCSI
User Management	
Authentication	Basic Account/Windows AD Account
System	
Network	SMTP & HTTPS
macOS Client	Supported*
Device Integration	
I/O Box	Advantech ADAM-6000 Series; CHIYU CYT-133SC; MOXA ioLogik E1210, E1211, E1212, and E1214
POS (Add-ons)	POSNET; Lafresh; Allsense (Implement in NVR, Searchable in VAST2)
Camera Integration	
Video Source	VIVOTEK, ONVIF & RTSP Streaming
VCA Solution	
Security Intelligence	Line Crossing Detection, Loitering Detection, Intrusion detection, Face detection, Missing object detection, Unattended object detection, Crowd detection, Smart Tracking
Business Intelligence	People Counting, Zone Detection
Add-ons**	
Advanced Solutions	Substations Failover Solution, CMS Failover Solution, Transportation Solution, Transaction Solution, 3rd Party Integration Solution

*macOS Client Limitations of macOS Client, please refer to VAST 2 datasheet.
**Add-ons Advanced license is required. (Additional charges may apply).

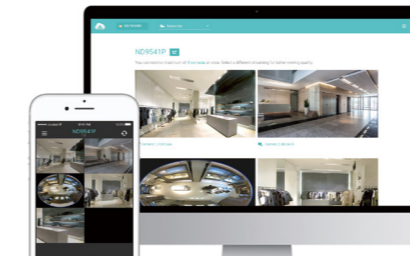* All specifications are subject to change without notice.

Cloud Service

VIVOCloud/ VIVOCloud Retail

VIVOCloud provides easy video bridging and tunneling between VIVOTEK NVRs and network cameras, ensuring smooth operation and management from anywhere at any time.

VIVOCloud
service.vivocloud.com

GET IT ON Google Play

Download on the App Store

Quick Start

VIVOCloud can be carried out by an intuitive app on Android or iOS devices. No more port forwarding, no more VPN setup, simply turn-on VIVOCloud service on your VIVOTEK device.

Scale Your Visions with Shared Devices

With an expandable network of up to 16 devices and the ability to share each device to up to 4 VIVOCloud accounts, your family members, friends or business colleagues are empowered to monitor security footage or counting reports.

Stay Notified

VIVOCloud keeps an eye on the things you value and pushes alerts to your mobile device wherever you are. Furthermore, you can also view notification history. Now you can stop constantly checking live video streams, and just simply check when notifications appear.
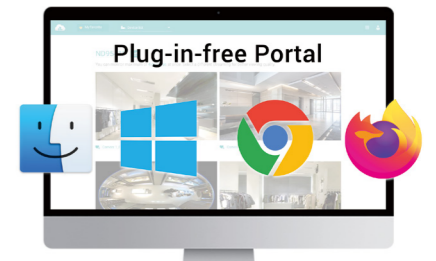
Easy Access with Cross Platform

Along with Android and iOS app, VIVOCloud supports various web browsers including, Firefox and Google Chrome, both on Windows and Mac.

Plug-in-free Portal

VIVOCloud Retail

retail.vivocloud.com

GET IT ON
Google Play

Download on the
App Store

Sync Report

VIVOCloud Retail supports both the web portal and the standalone app, allowing users to access reports anytime via any device type. All edits of report details will sync to the cloud server, keeping all dashboard information up-to-date across all devices. VIVOCloud Retail also supports data comparison and counting report detail down to the minute.
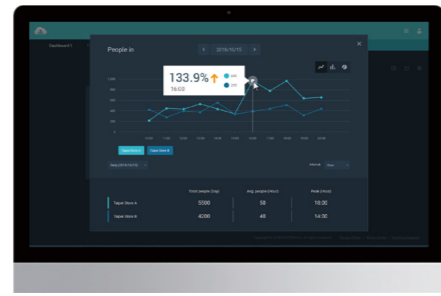
Looking into Data

Single click or tap on the VIVOCloud Retail dashboard to see more detailed information. VIVOCloud Retail also supports data comparison and counting report detail down to the minute.

Tracking Long-term Performance

Counting data is no longer limited by camera-based flash memory. All counting data will automatically sync to the NVR HDD every hour, and will be preserved for 2 years on free edge data storage. This provides the best way to track long-term performance and streamline your business and to maximize potential.

VIVOCloud		
	App	**Portal**
Platform System		
macOS	-	Chrome, Firefox
Windows	-	Chrome, Firefox
iOS	11.0 or later	-
Android	5.0 or later	-
Supported VIVOTEK Device		
Device Type	VIVOTEK NVRs VIVOTEK Cameras*	VIVOTEK NVRs VIVOTEK Cameras**

Supported NVRs: ND8212W, ND8312, ND8321, ND8322P, ND8422P, ND9312, ND9322P, ND9322P-v2, ND9424P, ND9424P-v2, ND9441, ND9441P, ND9541, ND9541P
Supported Cameras**: CC9381-HV, MS9390-HV, FE9380-HV, FE9191, FE9391-EV, IP9165-HP(T), IP9165-LPC, IP9172-LPC(Freeway), IP9191-HP(T), IB9360-H, IB9365-(E)HT, IB9368-HT, IB9380-H, IB9387-(E)H(T), IB9388-HT, IB9389-(E)H(T)(M), IB9391-EHT, FD9165-HT, FD9166-HN, FD9187-H(T), FD9189-H(M)(T), FD9360-H, FD9365-(E)HTV(L), FD9366-HV, FD9368-HTV, FD9380-H, FD9387-(E)H(T)V, FD9388-HTV, FD9389-(E)H(M)(T)V, IT9360-H, IT9380-H, IT9388-HT, IT9389-H(T), MD9560-(D)H, MD9561-H, MD9581-H
*About the full supported cameras list, please refer to the VIVOCloud product page.

VIVOCloud Retail		
	App	**Portal**
Platform System		
macOS	-	Chrome, Firefox
Windows	-	Chrome, Firefox
iOS	10.0 or later	-
Android	5.0 or later	-
Supported VIVOTEK Device		
Device Type	VIVOTEK NVRs	

Supported NVRs:
ND9322P, ND9322P-v2, ND9424P, ND9424P-v2, ND9441, ND9441P, ND9541, ND9541P

* All specifications are subject to change without notice.

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 for more information.

VIVOTEK

VIVOTEK INC.
Tel : +886-2-82455282
Email : sales@vivotek.com
Address :
6F, No.192, Lien-Cheng Rd.,
Chung-Ho, New Taipei City,
235, Taiwan

VIVOTEK USA
Tel : +408-773-8686
Email : salesusa@vivotek.com

VIVOTEK Europe
Tel : +31(0)36-5298-434
Email : saleseurope@vivotek.com

VIVOTEK Japan
Tel : +81-3-5733-1280
Email : salesjp@vivotek.com

VIVOTEK India
Tel : +91-11-45137465
Email : salesindia@vivotek.com

VIVOTEK LATAM
Tel : +52-55-1101-1793
Email : salesmexico@vivotek.com