Product Brochure

IP Surveillance Solutions

English 2018 v1

A Leading IP Surveillance Solution Provider

VIVOTEK Inc. (TAIEX: 3454) was founded in Taiwan in 2000. The Company markets VIVOTEK solutions worldwide, and has become a leading brand in the global IP surveillance industry. Its comprehensive solutions include network cameras, video servers, network video recorders, PoE solutions, and video management software. Through the growing proliferation of IoT, VIVOTEK aspires to become the Eye in IoT by drawing on its expansive technological capabilities in image and audio.

The Company has established offices and subsidiaries in the United States (California), Europe (Netherlands), India (Delhi), Middle East (Dubai), and Latin America (Mexico) in 2008, 2013, 2014, 2015, and 2016, respectively. To create a sound industrial ecosystem, VIVOTEK has expanded strategic alliances with leading international software and hardware partners and works with over 183 authorized distributors across 116 countries.

VIVOTEK

CONVERGENCE of
VIdeo, VOice and COmmunication TEKnology

Green VIVOTEK

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.

Green Design Guidelines

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

See More in Smarter Ways

"See More in Smarter Ways", shoulders the responsibility of guarding safety of the world and empowering business enterprises to discover customer insights through its intelligent solutions. In this commitment, VIVOTEK develops smart technology with advanced content analysis and superior product capabilities to stay ahead of the business. In 2018, we are pleased to present the following solutions:

180° Solution

360° Solution

Intelligent VCA

Cyber Security

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180°/360° Solutions
Advanced Technology
Intelligent VCA
Cyber Security
VivoCam PoE Switch

Network Cameras

Form Factor	Box Cameras			Box Cameras			
Video Resolution	2 Megapixel			2 Megapixel	3 Megapixel	5 Megapixel	4K
	SNV	SNV WDR	SNV WDR		H.265 SNV WDR	H.265 SNV WDR	H.265 SNV WDR NEW
Model Name	IP8166	IP816A-HP	IP816A-LPC	IP816A-LPC-v2 Kit	IP9171-HP	IP9181-H	IP9191-HP
Summary	2MP, 30fps, H.264/MJPEG, SNV*, Smart Stream II	2MP, 30fps, H.264/MJPEG, WDR Pro, SNV*, Remote Back Focus	2MP, 60fps, H.264/MJPEG, WDR Pro, SNV*, Remote Back Focus	License Plate Capture, Dual Lanes, Anti-Glare, 85MPH (140 km/h)/60MPH (90 km/h), Scene Overview, Remote Back Focus, Snapshot Focus	3MP, 30fps, H.265/H.264/MJPEG, Remote Back Focus, SNV*, WDR Pro, Smart Stream II	5MP, 30fps, H.265/H.264/MJPEG, Remote Back Focus, SNV*, WDR Pro, Smart Stream II	8MP, 30fps, H.265/H.264/MJPEG, SNV*, WDR Pro, Smart Stream III
Sensor Type	1/2.8" Progressive CMOS	1/1.9" Progressive CMOS	1/1.9" Progressive CMOS	1/1.9" Progressive CMOS	1/2.8" Progressive CMOS	1/1.8" Progressive CMOS	1/2" Progressive CMOS
Lens Type	Vari-focal	Vari-focal Remote Back Focus	Vari-focal Remote Back Focus	Vari-focal Remote Back Focus	Vari-focal Remote Back Focus	Vari-focal Remote Back Focus	Vari-focal Remote Back Focus
F-number	F1.4 ~ F2.4	F1.4 ~ F13	F2.36 ~ F2.44	F2.36 ~ F2.44	F1.2 ~ F1.95	F1.6 ~ F2.4	F1.5 ~ F2.7
Focal Length	f = 2.8 ~ 12 mm	f = 4 ~ 18 mm	f = 12 ~ 40 mm	f = 12 ~ 40 mm	f = 2.8 ~ 8 mm	f = 4.1 ~ 9 mm	f = 3.9 ~ 10 mm
Field of View	38° ~ 101° (H) 21° ~ 63° (V)	29° ~ 106° (H) 16° ~ 60° (V)	10° ~ 30° (H) 8° ~ 22° (V)	10° ~ 30° (H) 8° ~ 22° (V)	51° ~ 114° (H) 39° ~ 84° (V)	46° ~ 90° (H) 35° ~ 68° (V)	38° ~ 96° (H) 29° ~ 70° (V)
Auto-iris	DC-iris (P-iris reserved)	P-iris (DC-iris reserved)	P-iris (DC-iris reserved)	P-iris (DC-iris reserved)	P-iris (DC-iris reserved)	DC-iris (P-iris reserved)	P-iris (DC/iCS-iris reserved)
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR Illuminators	-	-	-	External IR Illuminator x1 (CM80I8-2040/CM48I8-2040)	-	-	-
Min. Illumination	0.08 Lux @ F1.4 (Color) 0.001 Lux @ F1.4 (B/W)	0.03 Lux @ F1.4 (Color) 0.001 Lux @ F1.4 (B/W)	IR Threshold: 300 Lux @ IR On 600 Lux @ IR Off	IR Threshold: 300 Lux @ IR On 600 Lux @ IR Off RS485 configurable	0.01 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)	0.07 Lux @ F1.6 (Color) 0.001 Lux @ F1.6 (B/W)	0.3 Lux @ F1.5 (Color) 0.1 Lux @ F1.5 (B/W)
Max. Video Resolution	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	2048x1536 (3MP)	2560x1920 (5MP)	3840x2160 (8MP)
Frames per Second	30 fps@ 1920x1080	30 fps @ 1920x1080 60 fps @ 1920x1080 (one-stream mode only)	30 fps @ 1920x1080 60 fps @ 1920x1080 (one-stream mode only)	30 fps @ 1920x1080 60 fps @ 1920x1080 (one-stream mode only)	H.265/H.264: 30 fps @ 2048x1536 MJPEG: 15 fps @ 2048x1536	H.265/H.264: 30 fps @ 2560x1920, 60 fps @ 1920x1080 MJPEG: 12 fps @ 2560x1920, 30 fps @ 1920x1080	H.265/H.264: 30 fps @ 3840x2160 120 fps @ 1920x1080
Video Compression	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Multiple Streams	4 Streams	2 Streams	2 Streams	2 Streams	3 Streams	4 Streams	3 Streams
WDR Technology*	WDR Enhanced	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	-	-	-	-	-	-	-
Power Input	DC 12V AC 24V PoE	DC 12V AC 24V PoE	DC 12V AC 24V PoE	AC 24V	DC 12V AC 24V PoE	DC 12V AC 24V PoE	DC 24V AC 24V PoE
Power Consumption	Max. 6.8 W	Max. 9.2 W (DC 12V) Max. 15.4 W (AC 24V) Max.12.2 W (PoE)	Max. 9.2 W (DC 12V) Max. 15.4 W (AC 24V) Max.12.2 W (PoE)	IP816A-LPC-v2 Kit (Highway): Max. 110 W, Suggested Power: AC 24V / 7A IP816A-LPC-v2 Kit (Street): Max. 78 W, Suggested Power: AC 24V / 5A	Max. 8.6 W	Max. 9.7 W	Max. 12 W
Digital Input / Output	3/1	3/1	3/1	3/1	3/1	3/1	2/2
Audio	Two-way Audio External microphone input External line output	Two-way Audio External microphone input Audio output	Two-way Audio External microphone input Audio output	Two-way Audio External microphone input Audio output	Two-way Audio External microphone input Audio output	Two-way Audio External microphone input Audio output	Two-way Audio External microphone input Audio output
Audio Compression	G.711, G.726	AAC, G.711, G.726	AAC, G.711, G.726	AAC, G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726
ONVIF	Profile S/G	Profile S	Profile S	Profile S	Profile S/G	Profile S/G	Profile S/G
On-board Storage	SD/SDHC/SDXC Card Slot	SD/SDHC/SDXC Card Slot	SD/SDHC/SDXC Card Slot	SD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC Card Slot	MicroSD/SDHC/SDXC Card Slot	MicroSD/SDHC/SDXC Card Slot
Housing	-	-	-	IP68, IK10	-	-	-
Dimensions	193 (D) x 70 (W) x 61 (H) mm	231 (D) x 70 (W) x 64 (H) mm	231 (D) x 70 (W) x 64 (H) mm	503 (D) x 170 (W) x 400 (H) mm (Kit) 231 (D) x 70 (W) x 64 (H) mm (Camera) 220 (D) x 160 (W) x 73 (H) mm (IR Illuminator)	210 (D) x 70 (W) x 63 (H) mm	210 (D) x 70 (W) x 63 (H) mm	210 (D) x 70 (W) x 63 (H) mm
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 60°C (14°F~ 140°F)	-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 ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)

*WDR Enhanced: Achieved with tone mapping technology, which reduces the dynamic range of an entire image while still retaining contrast.
*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.

Network Cameras

Form Factor	Bullet Cameras			Bullet Cameras			
Video Resolution	2 Megapixel			2 Megapixel			
	Wifi SNV NEW	SNV	SNV	SNV WDR	SNV WDR	H.265 SNV WDR NEW	H.265 WDR NEW
Model Name	IB8360 IB8360-W	IB8367A	IB8369A	IB836BA-HF3 IB836BA-EHF3	IB836BA-HT IB836BA-EHT	IB9365-HT IB9365-EHT	IB9367-H
Summary	2MP, 30fps, H.264/MJPEG, 12 m IR, SNV*, Wi-Fi (IB8360-W), Compact Size	2MP, 30fps, H.264/MJPEG, SNV*	2MP, 30fps, H.264/MJPEG, SNV*	2MP, 30fps, H.264/MJPEG, WDR Pro, SNV*, Cable Management	2MP, 30fps, H.264/MJPEG, P-iris, WDR Pro, SNV*, Remote Focus, Cable Management	2MP, 60fps, H.265/H.264/MJPEG, P-iris, WDR Pro II, Smart Stream III, SNV II*, Remote Focus, Cable Management	2MP, 30fps, H.265/H.264/MJPEG, WDR Pro, Smart Stream III, Cable Management
Sensor Type	1/2.9" Progressive CMOS in 1920x1080	1/2.9" Progressive CMOS	1/2.9" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2" Progressive CMOS	1/2.8" progressive CMOS
Lens Type	Fixed-focal	Vari-focal Manual Focus	Fixed-focal	Fixed-focal	Vari-focal Remote Focus	Vari-focal Remote Focus	Fixed-focal
F-number	F2.0	F1.4 ~ F2.4	F2.1	F2.1	F1.8 ~ F2.85	F1.3 ~ F2.2	F1.3
Focal Length	f = 3.6 mm	f = 2.8 ~ 12 mm	f = 3.6 mm	f = 3.6 mm	f = 2.8 ~ 12 mm	f = 4 ~ 9 mm f = 3.5 ~ 11.4 mm (equivalent focal length @ 1/2.8")	f = 3.6 mm
Field of View	89° (H) 46° (V)	36° ~ 101° (H) 20° ~ 55° (V)	78° (H) 42° (V)	90° (H) 46° (V)	34° ~ 112° (H) 19° ~ 59° (V)	46° ~ 100° (H) 26° ~ 52° (V)	88° (H) 47° (V)
Auto-iris	-	DC-iris	-	-	P-iris	P-iris	-
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR Illuminators	12 m, IR LED*10	30 m, IR LED*10	30 m, IR LED*10	30 m, IR LED*8	30 m, IR LED*8	50 m, IR LED*5	30 m, IR LED*2
Min. Illumination	0.1 Lux @ F2.0 (Color) 0.01 Lux @ F2.0 (B/W) 0.01 Lux with IR illumination on	0.05 Lux @ F1.4 (Color) 0.01 Lux @ F1.4 (B/W)	0.07 Lux @ F2.1 (Color) 0.01 Lux @ F2.1 (B/W)	0.16 Lux @ F2.1 (Color) 0.01 Lux @ F2.1 (B/W)	0.1 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W)	0.04 Lux @ F1.3 (Color), 50IRE 0.002 Lux @ F1.3 (Color), 30IRE 0 Lux with IR illumination on	0.07 Lux @ F1.3 (Color) 0.001 Lux @ F1.3 (B/W) 0 Lux with IR illumination on
Max. Video Resolution	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)
Frames per Second	30 fps @ 1920x1080	30 fps @ 1920x1080	30 fps @ 1920x1080	30 fps @ 1920x1080	30 fps @ 1920x1080	60 fps @ 1920x1080	30 fps @ 1920x1080
Video Compression	Dual-Codec (H.264 & MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Multiple Streams	3 Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams	3 Streams
WDR Technology*	WDR Enhanced	WDR Enhanced	WDR Enhanced	WDR Pro	WDR Pro	WDR Pro II	WDR Pro
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	VIVOCloud App	VIVOCloud App	VIVOCloud App	-	-	-	-
Power Input	PoE (IB8360) DC 12V 1.5A (IB8360-W)	PoE	PoE	DC 12V PoE	DC 12V PoE	AC 24V DC 12V PoE	DC 12V PoE
Power Consumption	Max. 6.1 W	Max. 10 W	Max. 10 W	IB836BA-HF3: Max. 9 W IB836BA-EHF3: Max. 25 W (Heater on)	IB836BA-HT: Max. 13 W IB836BA-EHT: Max. 25 W (Heater on)	IB93665-HT: Max. 11.9 W IB9365-EHT: Max. 24.8 W (Heater on)	Max. 7 W
Digital Input / Output	-	-	-	1/1	1/1	2/2	1/1
Audio	-	-	-	Two-way Audio External microphone input Audio output	Two-way Audio External microphone input Audio output	Two-way Audio External microphone input External line output	Two-way Audio External microphone input External line output
Audio Compression	-	-	-	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726
ONVIF	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G
On-board Storage	MicroSD/SDHC/SDXC Card Slot	MicroSD/SDHC/SDXC Card Slot	MicroSD/SDHC/SDXC Card Slot	SD/SDHC/SDXC Card Slot	SD/SDHC/SDXC Card Slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot
Housing	IP66	IP66, IK10 (Metal housing)	IP66, IK10 (Metal housing)	IP66, IK10 (Metal housing)	IP66, IK10 (Metal housing)	IP66, IP67, IK10 (Metal housing)	IP66, IP67, IK10 (Metal housing)
Dimensions	99 x 75 x 164 mm	Ø 72 x 327 mm	Ø 72 x 300 mm	Ø 88 x 293 mm	Ø 88 x 293 mm	415 x 121 x 121 mm (w/ junction box)	266 x 118 x 118 mm
Operating Temperature	-20°C ~ 50°C (-4°F ~122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F) (IB836BA-HF3) -50°C ~ 50°C (-58°F ~ 122°F) (IB836BA-EHF3)	-20°C ~ 50°C (-4°F ~ 122°F) (IB836BA-HT) -50°C ~ 50°C (-58°F ~ 122°F) (IB836BA-EHT)	-30°C ~ 50°C (-22°F ~ 122°F) (IB9365-HT) -50°C ~ 50°C (-58°F ~ 122°F) (IB9365-EHT)	-20°C ~ 50°C (-4°F ~ 122°F)

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*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.

Network Cameras

Form Factor	Bullet Cameras			Bullet Cameras			
Video Resolution	2 Megapixel	3 Megapixel	4 Megapixel	4 Megapixel		5 Megapixel	
	H.265 WDR NEW	H.265 SNV WDR	WDR	WDR NEW	WDR		
Model Name	IB9367-HT IB9367-EHT	IB9371-HT IB9371-EHT	IB8377-H	IB8377-HT IB8377-EHT	IB8379-H	IB8382-F3 IB8382-EF3	IB8382-T IB8382-ET
Summary	2MP, 30fps, H.265/H.264/MJPEG, WDR Pro, Smart Stream III, Remote Focus, Cable Management	3MP, 30fps, H.265/H.264/MJPEG, Remote Focus, SNV*, WDR Pro, Smart Stream II, Cable Management	4MP, 30fps, H.264/MJPEG, WDR Pro, Smart Stream II	4MP, 30fps, H.264/MJPEG, WDR Pro, Remote Focus, Smart Stream II	4MP, 30fps, H.264/MJPEG, WDR Pro, Smart Stream II	5MP, 15fps, H.264/MJPEG, SNV*, 3DNR, Cable Management	5MP, 15fps, H.264/MJPEG, P-irs, Remote Focus, 3DNR, SNV*, Cable Management
Sensor Type	1/2.8" progressive CMOS	1/2.8" progressive CMOS	1/3" progressive CMOS	1/3" progressive CMOS	1/3" progressive CMOS	1/3.2" Progressive CMOS	1/3.2" Progressive CMOS
Lens Type	Vari-focal Remote Focus	Vari-focal Remote Focus	Vari-focal Manual Focus	Vari-focal Remotel Focus	Fixed-focal	Fixed-focal	Vari-focal Remote Focus
F-number	F1.4 ~ F2.8	F1.2 ~ F2.3	F1.4 ~ F2.2	F1.4 ~ F2.8	F2.1	F2.1	F1.2 ~ F2.3
Focal Length	f = 2.8 ~ 12 mm	f= 3 ~ 9 mm	f = 2.8 ~ 12 mm	f = 2.8 ~ 12 mm	f = 3.6 mm	f = 3.6 mm	f = 3 ~ 9 mm
Field of View	33° ~ 97° (H) 19° ~ 53° (V)	39° ~ 82° (H) 29° ~ 60° (V)	33° ~ 105° (H) 18° ~ 54° (V)	32° ~ 93° (H) 18° ~ 50° (V)	83° (H) 44° (V)	68° (H) 51° (V)	35° ~ 78° (H) 27° ~ 54° (V)
Auto-iris	P-iris	P-iris	DC-iris	P-iris	-	-	P-iris
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR Illuminators	30 m, IR LED*5	30 m, IR LED*8	30 m, IR LED*10	30 m	30 m, IR LED*10	30 m, IR LED*8	30 m, IR LED*8
Min. Illumination	0.07 Lux @ F1.4 (Color) 0.001 Lux @ F1.4 (B/W) 0 Lux with IR illumination on	0.01 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)	0.1 Lux @ F1.4 (Color) 0.01 Lux @ F1.4 (B/W)	0.1 Lux @ F1.4 (Color) 0.01 Lux @ F1.4 (B/W)	0.18 Lux @ F2.1 (Color) 0.01 Lux @ F2.1 (B/W)	0.089 Lux @ F2.1 (Color) 0.001 Lux @ F2.1 (B/W)	0.04 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)
Max. Video Resolution	1920x1080 (2MP)	2048x1536 (3MP)	2688x1520 (4MP)	2688x1520 (4MP)	2688x1520 (4MP)	2560x1920 (5MP)	2560x1920 (5MP)
Frames per Second	30 fps @ 1920x1080	H.265/H.264: 30 fps@ 2048x1536 MJPEG: 15 fps@ 2048x1536	30 fps @ 2688x1520 (w/o WDR Pro) 24 fps @ 2560x1440	30 fps @ 2688x1520 (w/o WDR Pro) 24 fps @ 2560x1440	30 fps @ 2688x1520 (w/o WDR Pro) 24 fps @ 2560x1440	15 fps @ 2560x1920 15 fps @ 2048x1536 30 fps @ 1920x1080	15 fps @ 2560x1920 15 fps @ 2048x1536 30 fps @ 1920x1080
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)
Multiple Streams	3 Streams	3 Streams	3 Streams	3 Streams	3 Streams	4 Streams	4 Streams
WDR Technology*	WDR Pro	WDR Pro	WDR Pro (supports up to 3.6MP)	WDR Pro (supports up to 3.6MP)	WDR Pro (supports up to 3.6MP)	WDR Enhanced	WDR Enhanced
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	-	-	-	-	-	-	-
Power Input	DC 12V PoE	DC 12V PoE	PoE	DC 12V PoE	PoE	DC 12V PoE	DC 12V PoE
Power Consumption	IB9367-HT: Max. 12 W IB9367-EHT: Max. 24 W (Heater on)	IB9371-HT: Max. 11 W IB9371-EHT: Max. 23.6 W (Heater on)	Max. 8.5 W	IB8377-HT: Max. 12 W IB8377-EHT: Max. 24 W (Heater on	Max. 8.5 W	IB8382-F3: Max. 9 W IB8382-EF3: Max. 25 W (Heater on)	IB8382-T: Max. 9.5 W IB8382-ET: Max. 25 W (Heater on)
Digital Input / Output	1/1	1/1	-	1/1	-	1/1	1/1
Audio	Two-way Audio External microphone input External line output	Two-way Audio External microphone input Audio output	-	Two-way Audio External microphone input Audio output	-	Two-way Audio External microphone input Audio output	Two-way Audio External microphone input Audio output
Audio Compression	G.711, G.726	G.711, G.726	-	G.711, G.726	-	G.711, G.726	G.711, G.726
ONVIF	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G
On-board Storage	MicroSD/SDHC/SDXC card slot	SD/SDHC/SDXC card slot	MircoSD/SDHC/SDXC card slot	MircoSD/SDHC/SDXC card slot	MircoSD/SDHC/SDXC card slot	SD/SDHC/SDXC Card Slot	SD/SDHC/SDXC Card Slot
Housing	IP66, IP67, IK10 (Metal housing)	IP66, IK10 (Metal housing)	IP66, IK10 (Metal housing)	IP66, IP67, IK10 (Metal housing)	IP66, IK10 (Metal housing)	IP66, IK10 (Metal housing)	IP66, IK10 (Metal housing)
Dimensions	294 x 118 x 118 mm	Ø 88 x 293 mm	Ø 72 x 327 mm	294 x 118 x 118 mm	Ø 72 x 300 mm	Ø 88 x 293 mm	Ø 88 x 293 mm
Operating Temperature	-30°C ~ 50°C (-22°F ~ 122°F) (IB9367-HT) -50°C ~ 50°C (-58°F ~ 122°F) (IB9367-EHT)	-20°C ~ 50°C (-4°F ~ 122°F) (IB9371-HT) -50°C ~ 50°C (-58°F ~ 122°F) (IB9371-EHT)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F) (IB8377-HT) -50°C ~ 50°C (-58°F ~ 122°F) (IB8377-EHT)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F) (IB8382-F3) -50°C ~ 50°C (-58°F ~ 122°F) (IB8382-EF3)	-20°C ~ 50°C (-4°F ~ 122°F) (IB8382-T) -50°C ~ 50°C (-58°F ~ 122°F) (IB8382-ET)

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*WDR Pro: Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is between 100dB and 140dB.
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Network Cameras

Form Factor	Bullet Cameras	Zoom Lens Camera	Fixed Dome Cameras	Fixed Dome Cameras			
Video Resolution	5 Megapixel	2 Megapixel	2 Megapixel	2 Megapixel			
	H.265 SNV WDR	H.265 WDR	SNV	SNV		SNV	SNV
Model Name	IB9381-HT IB9381-EHT	IZ9361-EH	FD8166A	FD8166A-N	FD8366-V	FD8167A	FD8367A-V
Summary	5MP, 30fps, H.265H.264/MJPEG, Remote Focus, SNV*, WDR Pro, Smart Stream II, Cable Management	2MP, 60fps, 150M VAIR, H.265/H.264/MJPEG, 20x, WDR Pro, Smart Stream II, IP67, NEMA 4X	2MP, 30fps, H.264/MJPEG, SNV*, Smart Stream II, Compact Size	2MP, 30fps, H.264/MJPEG, SNV*, Invisible IR, Smart Stream II, Compact Size	2MP, 30fps, H.264/MJPEG, SNV*, 15 m IR, Smart Stream II, Compact Size	2MP, 30fps, H.264/MJPEG, SNV*	2MP, 30fps, H.264/MJPEG, SNV*
Sensor Type	1/1.8" Progressive CMOS	1/3" Progressive CMOS	1/2.9" Progressive CMOS	1/2.9" Progressive CMOS	1/2.9" Progressive CMOS	1/2.9" Progressive CMOS	1/2.9" Progressive CMOS
Lens Type	Vari-focal Remote Focus	20x Optical Zoom Auto Focus	Fixed-focal	Fixed-focal	Fixed-focal	Vari-focal Manual Focus	Vari-focal Manual Focus
F-number	F1.3 ~ F2.2	F1.6 ~ F3.5	F1.8	F1.8	F1.8 [FD8366-V(2.8mm)] F2.1 [FD8366-V(3.6mm)]	F1.4 ~ F2.4	F1.4 ~ F2.4
Focal Length	f = 4 ~ 9 mm	f = 4.7 ~ 94 mm	f = 2.8 mm	f = 2.8 mm	f = 2.8 mm [FD8366-V(2.8mm)] f = 3.6 mm [FD8366-V(3.6mm)]	f = 2.8 ~ 12 mm	f = 2.8 ~ 12 mm
Field of View	45° ~ 84° (H) 34° ~ 62° (V)	2.9° ~ 55.4° (H) 1.6° ~ 32.6° (V)	113° (H) 63° (V)	113° (H) 63° (V)	113° (H), 63° (V) [FD8366-V(2.8mm)] 77° (H), 41° (V) [FD8366-V(3.6mm)]	33° ~ 97° (H) 19° ~ 53° (V)	33° ~ 97° (H) 19° ~ 53° (V)
Auto-iris	P-iris	DC-iris	-	-	-	DC-iris	DC-iris
Day/Night	Yes	Yes	-	-	Yes	Yes	Yes
IR Illuminators	30 m, IR LED*8	150 m	-	6 m	15 m	20 m, IR LED*8	30 m, IR LED*8
Min. Illumination	0.04 Lux @ F1.3 (Color) 0.001 Lux @ F1.3 (B/W)	0.26 Lux @ F1.6 (Color) 0.01 Lux @ F1.6 (B/W)	0.05 Lux @ F1.8	0.05 Lux @ F1.8 (Color) 0.001 Lux @ F1.8 (B/W) 0 Lux with IR LED on	FD8366-V(2.8mm): 0.16 Lux @ F1.8 (Color) < 0.01 Lux @ F1.8 (B/W) 0 Lux with IR illumination on FD8366-V(3.6mm): 0.18 Lux @ F2.1 (Color) < 0.01 Lux @ F2.1 (B/W) 0 Lux with IR illumination on	0.05 Lux @ F1.4 (Color) 0.01 Lux @ F1.4 (B/W)	0.05 Lux @ F1.4 (Color) 0.01 Lux @ F1.4 (B/W)
Max. Video Resolution	2560x1920 (5MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)
Frames per Second	H.265/H.264: 30 fps @ 2560x1920, 60 fps @ 1920x1080 MJPEG: 12 fps @ 2560x1920, 30 fps @ 1920x1080	H.265/H.264: 60 fps @ 1920x1080 MJPEG: 30 fps @ 1920x1080	30 fps@ 1920x1080	30 fps@ 1920x1080	30 fps@ 1920x1080	30 fps @ 1920x1080	30 fps @ 1920x1080
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)
Multiple Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams
WDR Technology*	WDR Pro	WDR Pro	WDR Enhanced	WDR Enhanced	WDR Enhanced	WDR Enhanced	WDR Enhanced
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	-	-	VIVOCloud App	VIVOCloud App	-	VIVOCloud App	VIVOCloud App
Power Input	DC 12V PoE	60W UPoE DC 24V AC 24V	PoE	PoE	PoE	PoE	PoE
Power Consumption	IB9381-HT: Max. 12.7 W IB9381-EHT: Max. 25.5 W (Heater on)	Max. 48/18 W (Heater on/off)	Max. 3 W	Max. 4.75 W	Max. 5.3 W	Max. 8.5 W	Max. 10.5 W
Digital Input / Output	1/1	3/1	1/0	-	-	-	-
Audio	Two-way Audio External microphone input Audio output	Two-way Audio External microphone input External line output	One-way Audio Built-in Microphone	One-way Audio Built-in Microphone	One-way Audio Built-in Microphone	-	-
Audio Compression	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726	-	-
ONVIF	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G
On-board Storage	SD/SDHC/SDXC Card Slot	SD/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
Housing	IP66, IK10 (Metal housing)	IP67, IK10, NEMA 4X	-	-	IP66, IK10	-	IP66, IK10
Dimensions	Ø 88 x 293 mm	147 x 375 x 322 mm	Ø 90 x 50 mm	Ø 90 x 50 mm	Ø 110 x 57 mm	Ø 129 x 94 mm	Ø 129 x 93 mm
Operating Temperature	-20°C ~ 50°C (-4°F ~ 122°F) (IB9381-HT) -50°C ~ 50°C (-58°F ~ 122°F) (IB9381-EHT)	-50°C ~ 60°C (-58°F ~ 140°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-25°C ~ 55°C (-13°F ~ 131°F)	-10°C ~ 50°C (14°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)

*WDR Enhanced: Achieved with tone mapping technology, which reduces the dynamic range of an entire image while still retaining contrast.
*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.

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Network Cameras

Form Factor	Fixed Dome Cameras			Fixed Dome Cameras			
Video Resolution	2 Megapixel			2 Megapixel			
	SNV	SNV	SNV WDR	SNV WDR	SNV WDR	SNV WDR	WDR
Model Name	FD8169A	FD8369A-V	FD816BA-HF2	FD816BA-HT	FD836BA-HVF2 FD836BA-EHVF2	FD836BA-HTV FD836BA-EHTV	FD816CA-HF2
Summary	2MP, 30fps, H.264/MJPEG, SNV*	2MP, 30fps, H.264/MJPEG, SNV*	2MP, 30fps, H.264/MJPEG, WDR Pro, SNV*, PIR	2MP, 30fps, H.264/MJPEG, P-iris, WDR Pro, SNV*, PIR, Remote Focus	2MP, 30fps, H.264/MJPEG, WDR Pro, SNV*	2MP, 30fps, H.264/MJPEG, P-iris, WDR Pro, SNV*, Remote Focus	2MP, 30fps, H.264/MJPEG, WDR Pro, Recessed-Mount, Ultra-mini Size
Sensor Type	1/2.9" Progressive CMOS	1/2.9" 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	Fixed-focal	Fixed-focal	Fixed-focal	Vari-focal Remote Focus	Fixed-focal	Vari-focal Remote Focus	Fixed Focal
F-number	F1.8	F1.8	F1.8	F1.8 ~ F2.85	F1.8	F1.8 ~ F2.85	F1.8
Focal Length	f = 2.8 mm	f = 2.8 mm	f = 2.8 mm	f = 2.8 ~ 12 mm	f = 2.8 mm	f = 2.8 ~ 12 mm	f = 2.8 mm
Field of View	114° (H) 61° (V)	114° (H) 61° (V)	122° (H) 66° (V)	34° ~ 107° (H) 19° ~ 56° (V)	122° (H) 66° (V)	34° ~ 107° (H) 19° ~ 56° (V)	122° (H) 66° (V)
Auto-iris	-	-	-	P-iris	-	P-iris	-
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	-
IR Illuminators	20 m, IR LED*8	30 m, IR LED*8	30 m, IR LED*8	30 m, IR LED*8	30 m, IR LED*8	30 m, IR LED*8	-
Min. Illumination	0.1 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W)	0.06 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W)	0.15 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W)	0.1 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W)	0.15 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W)	0.1 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W)	0.15 Lux @ F1.8 (Color) <0.01 Lux @ F1.8 (B/W)
Max. Video Resolution	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)
Frames per Second	30 fps @ 1920x1080	30 fps @ 1920x1080	30 fps @ 1920x1080	30 fps @ 1920x1080	30 fps @ 1920x1080	30 fps @ 1920x1080	30fps @ 1920x1080
Video Compression	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)
Multiple Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams	3 Streams
WDR Technology*	WDR Enhanced	WDR Enhanced	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	VIVOCloud App	VIVOCloud App	-	-	-	-	-
Power Input	PoE	PoE	DC 12V PoE	DC 12V PoE	DC 12V PoE	DC 12V PoE	PoE
Power Consumption	Max. 8.5 W	Max. 10.5 W	Max. 9 W	Max. 13 W	FD836BA-HVF2: Max. 9 W FD836BA-EHVF2: Max. 25 W (Heater on)	FD836BA-HTV: Max. 13 W FD836BA-EHTV: Max. 25 W (Heater on)	Max. 3.3 W
Digital Input / Output	-	-	1/1	1/1	1/1	1/1	-
Audio	-	-	Two-way Audio Built-in microphone External line input External line output	Two-way Audio Built-in microphone External line input External line output	Two-way Audio External microphone input External line output	Two-way Audio External microphone input External line output	One-way Audio Built-in Microphone
Audio Compression	-	-	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726
ONVIF	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G
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	MicroSD/SDHC/SDXC card slot
Housing	-	IP66, IK10	-	-	IP66, IK10	IP66, IK10	-
Dimensions	Ø 129 x 94 mm	Ø 129 x 93 mm	Ø 138 x 103 mm	Ø 138 x 103 mm	Ø 155x 103 mm	Ø 155 x 103 mm	Ø 60 x 115 mm
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F) (FD836BA-HVF2) -50°C ~ 50°C (-58°F ~ 122°F) (FD836BA-EHVF2)	-20°C ~ 50°C (-4°F ~ 122°F) (FD836BA-HTV) -50°C ~ 50°C (-58°F ~ 122°F) (FD836BA-EHTV)	-10°C ~ 45°C (14°F ~ 113°F)

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*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.

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Network Cameras

Form Factor	Fixed Dome Cameras			Fixed Dome Cameras			
Video Resolution	2 Megapixel			2 Megapixel			3 Megapixel
	H.265 SNV WDR NEW	H.265 SNV WDR NEW	H.265 SNV WDR NEW	H.265 SNV WDR NEW	H.265 SNV WDR NEW	H.265 SNV WDR NEW	H.265 SNV WDR
Model Name	FD9165-HT	FD9365-HTV FD9365-EHTV	FD9167-H	FD9167-HT	FD9367-HV	FD9367-HTV FD9367-EHTV	FD9171-HT
Summary	2MP, 30fps, H.265/H.264/MJPEG, WDR Pro II, SNV II*, Remote Focus, Smart Stream III	2MP, 30fps, H.265/H.264/MJPEG, WDR Pro II, SNV II*, Remote Focus, Smart Stream III	2MP, 30fps, H.265/H.264/MJPEG, WDR Pro, SNV*, Smart Stream III	2MP, 30fps, H.265/H.264/MJPEG, WDR Pro, SNV*, Remote Focus, Smart Stream III	2MP, 30fps, H.265/H.264/MJPEG, WDR Pro, SNV*, Smart Stream III	2MP, 30fps, H.265/H.264/MJPEG, WDR Pro, SNV*, Remote Focus, Smart Stream III	3MP, 30fps, H.265/H.264/MJPEG, Remote Focus, SNV*, WDR Pro, Smart Stream II, PIR
Sensor Type	1/2" Progressive CMOS	1/2" Progressive CMOS	1/2.8" progressive CMOS	1/2.8" progressive CMOS	1/2.8" progressive CMOS	1/2.8" progressive CMOS	1/2.8" progressive CMOS
Lens Type	Vari-focal Remote Focus	Vari-focal Remote Focus	Fixed-focal	Vari-focal Remote Focus	Fixed-focal	Vari-focal Remote Focus	Vari-focal Remote Focus
F-number	F1.3 ~ F2.2	F1.3 ~ F2.2	F1.6	F1.4 ~ F2.8	F1.6	F1.4 ~ F2.8	F1.2 ~ F2.3
Focal Length	f = 4 ~ 9 mm f = 2.8 ~ 11.4 mm (equivalent focal length @ 1/2.8")	f = 4 ~ 9 mm f = 2.8 ~ 11.4 mm (equivalent focal length @ 1/2.8")	f = 2.8 mm	f = 2.8 ~ 12 mm	f = 2.8 mm	f = 2.8 ~ 12 mm	f= 3 ~ 9 mm
Field of View	46° ~ 120° (H) 26° ~ 60° (V)	46° ~ 120° (H) 26° ~ 60° (V)	109° (H) 61° (V)	33° ~ 97° (H) 19° ~ 53° (V)	109° (H) 61° (V)	33° ~ 97° (H) 19° ~ 53° (V)	41° ~ 86° (H) 31° ~ 64° (V)
Auto-iris	P-iris	P-iris	-	P-iris	-	P-iris	P-iris
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR Illuminators	50 m, IR LED*5	50 m, IR LED*5	30 m, IR LED*2	30 m, IR LED*4	30 m, IR LED*2	30 m, IR LED*4	30 m, IR LED*8
Min. Illumination	0.04 Lux @ F1.3 (Color), 50IRE 0.002 Lux @ F1.3 (Color), 30IRE 0 Lux with IR illumination on	0.04 Lux @ F1.3 (Color), 50IRE 0.002 Lux @ F1.3 (Color), 30IRE 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	0.07 Lux @ F1.4 (Color) 0.001 Lux @ F1.4 (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	0.07 Lux @ F1.4 (Color) 0.001 Lux @ F1.4 (B/W) 0 Lux with IR illumination on	0.01 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)
Max. Video Resolution	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	2048x1536 (3MP)
Frames per Second	60 fps@ 1920x1080	60 fps@ 1920x1080	30 fps@ 1920x1080	30 fps@ 1920x1080	30 fps@ 1920x1080	30 fps@ 1920x1080	H.265/H.264: 30 fps @ 2048x1536 MJPEG: 15 fps @ 2048x1536
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)	Triple-Codec (H.265/H.264/MJPEG)
Multiple Streams	4 Streams	4 Streams	3 Streams	3 Streams	3 Streams	3 Streams	3 Streams
WDR Technology*	WDR Pro II	WDR Pro II	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	-	-	-	-	-	-	-
Power Input	DC 12V AC 24V PoE	DC 12V AC 24V PoE	DC 12V PoE	DC 12V PoE	DC 12V PoE	DC 12V PoE	DC 12V PoE
Power Consumption	Max. 10.7 W	FD9365-HTV: Max. 11.9 W FD9365-EHTV: Max. 24.8 W (Heater on)	Max. 7 W	Max. 10 W	Max. 7 W	FD9367-HTV: Max. 10 W FD9367-EHTV: Max. 25 W (Heater on)	Max. 12 W
Digital Input / Output	2/2	2/2	1/1	1/1	1/1	1/1	1/1
Audio	Two-way Audio Built-in microphone External microphone input External line in	Two-way Audio Built-in microphone External microphone input External line output	Two-way Audio Built-in microphone External microphone input External line output	Two-way Audio Built-in microphone External microphone input External line output	Two-way Audio Built-in microphone External microphone input External line output	Two-way Audio Built-in microphone External microphone input External line output	Two-way Audio Internal microphone input Audio output
Audio Compression	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726
ONVIF	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G
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	MicroSD/SDHC/SDXC card slot
Housing	-	IP66, IK10	-	-	IP66, IK10	IP66, IK10	-
Dimensions	Ø 139 x 103 mm	Ø 155 x 138 mm	Ø 139 x 103 mm	Ø 139 x 103 mm	Ø 155 x 103 mm	Ø 155 x 103 mm	Ø 138 x 103 mm
Operating Temperature	10°C ~ 50°C (14°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F) (FD9365-HTV) -50°C ~ 50°C (-58°F ~ 122°F) (FD9365-EHTV)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F) (FD9367-HT) -50°C ~ 50°C (-58°F ~ 122°F) (FD9367-HTV)	-10°C ~ 50°C (14°F ~ 122°F)

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*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.

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Network Cameras

Form Factor	Fixed Dome Cameras			Fixed Dome Cameras			
Video Resolution	3 Megapixel	4 Megapixel		4 Megapixel			
	H.265 SNV WDR	WDR	WDR NEW	WDR	WDR NEW	WDR	WDR
Model Name	FD9371-HTV FD9371-EHTV	FD8177-H	FD8177-HT	FD8377-HV	FD8377-HTV FD8377-EHTV	FD8179-H	FD8379-HV
Summary	3MP, 30fps, H.265/H.264/MJPEG, Remote Focus, SNV*, WDR Pro, Smart Stream II	4MP, 30fps, H.264/MJPEG, WDR Pro, Smart Stream II	4MP, 30fps, H.264/MJPEG, WDR Pro, Remote Focus, Smart Stream II	4MP, 30fps, H.264/MJPEG, WDR Pro, Smart Stream II	4MP, 30fps, H.264/MJPEG, WDR Pro, Remote Focus, Smart Stream II	4MP, 30fps, H.264/MJPEG, WDR Pro, Smart Stream II	4MP, 30fps, H.264/MJPEG, WDR Pro, Smart Stream II
Sensor Type	1/2.8" progressive CMOS	1/3" progressive CMOS	1/3" progressive CMOS	1/3" progressive CMOS	1/3" progressive CMOS	1/3" progressive CMOS	1/3" progressive CMOS
Lens Type	Vari-focal Remote Focus	Vari-focal	Vari-focal Remote Focus	Vari-focal	Vari-focal Remote Focus	Fixed-focal	Fixed-focal
F-number	F1.2 ~ F2.3	F1.4 ~ F2.2	F1.4 ~ F2.8	F1.4 ~ F2.2	F1.4 ~ F2.8	F1.8	F1.8
Focal Length	f= 3 ~ 9 mm	f = 2.8 ~ 12 mm	f = 2.8 ~ 12 mm	f = 2.8 ~ 12 mm	f = 2.8 ~ 12 mm	f = 2.8 mm	f = 2.8 mm
Field of View	41° ~ 86° (H) 31° ~ 64° (V)	33° ~ 105° (H) 18° ~ 54° (V)	32° ~ 93° (H) 18° ~ 50° (V)	33° ~ 105° (H) 18° ~ 54° (V)	32° ~ 93° (H) 18° ~ 50° (V)	114° (H) 61° (V)	114° (H) 61° (V)
Auto-iris	P-iris	DC-iris	P-iris	DC-iris	P-iris	-	-
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR Illuminators	30 m, IR LED*8	30 m, IR LED*8	30 m	30 m, IR LED*8	30 m	30 m, IR LED*8	30 m, IR LED*8
Min. Illumination	0.01 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)	0.1 Lux @ F1.4 (Color) 0.01 Lux @ F1.4 (B/W)	0.1 Lux @ F1.4 (Color) 0.01 Lux @ F1.4 (B/W)	0.1 Lux @ F1.4 (Color) 0.01 Lux @ F1.4 (B/W)	0.1 Lux @ F1.4 (Color) 0.01 Lux @ F1.4 (B/W)	0.14 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W)	0.14 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W)
Max. Video Resolution	2048x1536 (3MP)	2688x1520 (4MP)	2688x1520 (4MP)	2688x1520 (4MP)	2688x1520 (4MP)	2688x1520 (4MP)	2688x1520 (4MP)
Frames per Second	H.265/H.264: 30 fps @ 2048x1536 MJPEG: 15 fps @ 2048x1536	30 fps @ 2688x1520 (w/o WDR Pro) 24 fps @ 2560x1440	30 fps @ 2688x1520 (w/o WDR Pro) 24 fps @ 2560x1440	30 fps @ 2688x1520 (w/o WDR Pro) 24 fps @ 2560x1440	30 fps @ 2688x1520 (w/o WDR Pro) 24 fps @ 2560x1440	30 fps @ 2688x1520 (w/o WDR Pro) 24 fps @ 2560x1440	30 fps @ 2688x1520 (w/o WDR Pro) 24 fps @ 2560x1440
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)
Multiple Streams	3 Streams	3 Streams	3 Streams	3 Streams	3 Streams	3 Streams	3 Streams
WDR Technology*	WDR Pro	WDR Pro (supports up to 3.6MP)	WDR Pro (supports up to 3.6MP)	WDR Pro (supports up to 3.6MP)	WDR Pro (supports up to 3.6MP)	WDR Pro (supports up to 3.6MP)	WDR Pro (supports up to 3.6MP)
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	-	-	-	-	-	-	-
Power Input	DC 12V PoE	PoE	DC 12V PoE	PoE	DC 12V PoE	PoE	PoE
Power Consumption	FD9371-HTV: Max. 12 W FD9371-EHTV: Max. 24.7 W (Heater on)	Max. 10 W	Max. 11 W	Max. 10 W	FD8377-HTV: Max. 11 W FD8377-EHTV: Max. 23 W (Heater on)	Max. 10 W	Max. 10 W
Digital Input / Output	1/1	-	1/1	-	1/1	-	-
Audio	Two-way Audio External microphone input Audio output	One-way Audio Built-in Microphone	Two-way Audio Built-in Microphone External line input External line output	-	Two-way Audio External microphone input External line output	One-way Audio Built-in Microphone	-
Audio Compression	G.711, G.726	G.711, G.726	G.711, G.726	-	G.711, G.726	G.711, G.726	-
ONVIF	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G
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	MicroSD/SDHC/SDXC card slot
Housing	IP66 , IK10	-	-	IP66, IK10	IP66, IK10	-	IP66, IK10
Dimensions	Ø 155x 103 mm	Ø 129 x 94 mm	Ø 139 x 103 mm	Ø 129 x 93 mm	Ø 155 x 103 mm	Ø 129 x 94 mm	Ø 129 x 93 mm
Operating Temperature	-20°C ~ 50°C (-4°F ~ 122°F) (FD9371-HTV) -50°C ~ 50°C (-58°F ~ 122°F) (FD9371-EHTV)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F) (FD8377-HTV) -50°C ~ 50°C (-58°F ~ 122°F) (FD8377-EHTV)	-10°C ~ 50°C (14°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)

*WDR Enhanced: Achieved with tone mapping technology, which reduces the dynamic range of an entire image while still retaining contrast.
*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.

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Network Cameras

Form Factor	Fixed Dome Cameras			Fixed Dome Cameras			Corner Cameras
Video Resolution	5 Megapixel			5 Megapixel			3 Megapixel
					H.265 SNV WDR	H.265 SNV WDR	SNV WDR
Model Name	FD8182-F2	FD8182-T	FD8382-VF2 FD8382-EVF2	FD8382-TV FD8382-ETV	FD9181-HT	FD9381-HTV FD9381-EHTV	CD8371-HNTV
Summary	5MP, 15fps, H.264/MJPEG, 3DNR, PIR	5MP, 15fps, H.264/MJPEG, Remote Focus, SNV*, 3DNR, PIR	5MP, 15fps, H.264/MJPEG, 3DNR	5MP, 15fps, H.264/MJPEG, Remote Focus, SNV*, 3DNR	5MP, 30fps, H.265/H.264/MJPEG, Remote Focus, SNV*, WDR Pro, Smart Stream II	5MP, 30fps, H.265/H.264/MJPEG, Remote Focus, SNV*, WDR Pro, Smart Stream II	5MP, 20fps, H.264/MJPEG, Remote Focus, SNV*, WDR Pro, 10 m IR, Anti-ligature Design
Sensor Type	1/3.2" Progressive CMOS	1/3.2" Progressive CMOS	1/3.2" Progressive CMOS	1/3.2" Progressive CMOS	1/1.8" progressive CMOS	1/1.8" progressive CMOS	1/2.8" progressive CMOS
Lens Type	Fixed-focal	Vari-focal Remote Focus	Fixed-focal	Vari-focal Remote Focus	Vari-focal Remote Focus	Vari-focal Remote Focus	Vari-focal Remote Focus
F-number	F1.8	F1.2 ~ F2.3	F1.8	F1.2 ~ F2.3	F1.3 ~ F2.2	F1.3 ~ F2.2	F1.6
Focal Length	f = 2.8 mm	f = 3 ~ 9 mm	f = 2.8 mm	f = 3 ~ 9 mm	f= 4 ~ 9 mm	f= 4 ~ 9 mm	f= 2.8 ~ 8 mm
Field of View	90° (H) 67° (V)	35° ~ 78° (H) 27° ~ 54° (V)	90° (H) 67° (V)	35° ~ 78° (H) 27° ~ 54° (V)	45° ~ 93° (H) 34° ~ 68° (V)	45° ~ 93° (H) 34° ~ 68° (V)	51° ~ 105° (H) 37° ~ 72° (V)
Auto-iris	-	P-iris	-	P-iris	P-iris	P-iris	-
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR Illuminators	30 m, IR LED*8	30 m, IR LED*8	30 m, IR LED*8	30 m, IR LED*8	30 m, IR LED*8	30 m, IR LED*8	10 m, 940nm IR
Min. Illumination	0.39 Lux @ F1.8 (Color) 0.001 Lux @ F1.8 (B/W)	0.04 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)	0.39 Lux @ F1.8 (Color) 0.001 Lux @ F1.8 (B/W)	0.04 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)	0.04 Lux @ F1.3 (Color) 0.001 Lux @ F1.3 (B/W)	0.04 Lux @ F1.3 (Color) 0.001 Lux @ F1.3 (B/W)	0.01 Lux @ F1.6 (Color) < 0.01 Lux @ F1.6 (B/W) 0 Lux with IR LED on
Max. Video Resolution	2560x1920 (5MP)	2560x1920 (5MP)	2560x1920 (5MP)	2560x1920 (5MP)	2560x1920 (5MP)	2560x1920 (5MP)	2048x1536 (3MP)
Frames per Second	15 fps @ 2560x1920 15 fps @ 2408x1536 30 fps @ 1920x1080	15 fps @ 2560x1920 15 fps @ 2048x1536 30 fps @ 1920x1080	15 fps @ 2560x1920 15 fps @ 2048x1536 30 fps @ 1920x1080	15 fps @ 2560x1920 15 fps @ 2048x1536 30 fps @ 1920x1080	H.265/H.264: 30 fps @ 2560x1920, 60 fps @ 1920x1080 MJPEG: 12 fps @ 2560x1920, 30 fps @ 1920x1080	H.265/H.264: 30 fps @ 2560x1920, 60 fps @ 1920x1080 MJPEG: 12 fps @ 2560x1920, 30 fps @ 1920x1080	20 fps @ 2048x1536
Video Compression	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Dual-Codec (H.264/MJPEG)
Multiple Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams	3 Streams
WDR Technology*	WDR Enhanced	WDR Enhanced	WDR Enhanced	WDR Enhanced	WDR Pro	WDR Pro	WDR Pro
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	-	-	-	-	-	-	-
Power Input	DC 12V PoE	DC 12V PoE	DC 12V PoE	DC 12V PoE	DC 12V PoE	DC 12V PoE	DC12V AC24V PoE
Power Consumption	Max. 9 W	Max. 9.5 W	FD8382-VF2: Max. 9 W FD8382-EVF2: Max. 25 W (Heater on)	FD8382-TV: Max. 9.5 W FD8382-ETV: Max. 25 W (Heater on)	Max. 12.8 W	FD9381-HTV: Max. 12.8 W FD9381-EHTV: Max. 25.5 W (Heater on)	Max. 6.2 W
Digital Input / Output	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Audio	Two-way Audio Built-in Microphone External line input External line output	Two-way Audio Built-in Microphone External line input External line output	Two-way Audio External microphone input External line output	Two-way Audio External microphone input External line output	Two-way Audio Internal microphone input Audio output	Two-way Audio External microphone input Audio output	Two-way Audio Built-in microphone External microphone input External line output
Audio Compression	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726
ONVIF	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G
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	MicroSD/SDHC/SDXC card slot
Housing	-	-	IP66, IK10	IP66, IK10	-	IP66, IK10	IP67, IK10+
Dimensions	Ø 138 x 103 mm	Ø 138 x 103 mm	Ø 155 x 103 mm	Ø 155 x 103 mm	Ø 138 x 103 mm	Ø 155 x 103 mm	226 x 221 x 112 mm
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F) (FD8382-VF2) -50°C ~ 50°C (-58°F ~ 122°F) (FD8382-EVF2)	-20°C ~ 50°C (-4°F ~ 122°F) (FD8382-TV) -50°C ~ 50°C (-58°F ~ 122°F) (FD8382-ETV)	-10°C ~ 50°C (14°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F) (FD9381-HTV) -50°C ~ 50°C (-58°F ~ 122°F) (FD9381-EHTV)	-10°C ~ 55°C (14°F~ 131°F)

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Network Cameras

Form Factor	Corner Cameras	180° Panoramic Cameras		180° Panoramic Cameras			
Video Resolution	3 Megapixel	2 Megapixel	2 Megapixel	3 Megapixel		8 Megapixel	12 Megapixel
	SNV WDR			SNV WDR	SNV WDR NEW	H.265 SNV WDR Coming Soon	
Model Name	CD8371-HNVF2	CC8160(HS)	CC8160	CC8370-HV	CC8371-HV	MS9390-HV	MS8391-EV
Summary	5MP, 20fps, H.264/MJPEG, SNV*, WDR Pro, 10 m IR, Anti-ligature Design	2MP, 30fps, H.264/MJPEG, 180° Panoramic View, Eye-level View, Height Indicator (cm/ft)	2MP, 30fps, H.264/MJPEG, 180° Panoramic View, Compact Size	3MP, 30fps, H.264/MJPEG, 180° Panoramic View, WDR Pro, SNV*, Anti-ligature Design	3MP, 30fps, H.264/MJPEG, 180° Panoramic View, 20 m IR, WDR Pro, SNV*, Anti-ligature Design	8MP, 30fps, H.265/H.264/MJPEG, 180° Panoramic View, 20 m IR, WDR Pro, SNV*, IP66, IK10	12MP, 7fps, H.264/MJPEG, 180° Panoramic View, 30 m IR, IP66, IK10
Sensor Type	1/2.8" progressive CMOS	1/2.9" Progressive CMOS	1/2.9" Progressive CMOS	1/2.8" Progressive CMOS	1/2.8" Progressive CMOS	1/2.7" Progressive CMOS	1/2.8" Progressive CMOS
Lens Type	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal
F-number	F1.8	F1.95	F1.95	F2.0	F2.2	F1.2	F1.6
Focal Length	f= 2.8 mm	f = 1.66 mm	f = 1.66 mm	f = 1.6 mm	f = 1.45 mm	f = 2.8 mm	f = 6 mm
Field of View	108° (H) 79° (V)	180° (H) 100° (V)	180° (H) 100° (V)	180° (H) 130° (V)	180° (H) 120° (V)	180° (H) 68° (V)	180° (H) 34° (V)
Auto-iris	-	-	-	-	-	-	-
Day/Night	Yes	-	-	-	Yes	Yes	Yes
IR Illuminators	10 m, 940nm IR	-	-	-	15 m	20 m	30 m, IR LED*4
Min. Illumination	0.01 Lux @ F1.8 (Color) < 0.01 Lux @ F1.8 (B/W) 0 Lux with IR LED on	0.22 Lux @ F1.95 (Color)	0.22 Lux @ F1.95 (Color)	0.05 Lux @ F2.0 (Color)	<0.07 Lux @ F2.2 (Color) <0.001 Lux @ F2.2 (B/W)	0.05 Lux @ F1.2 (Color) 0.01 Lux @ F1.2 (B/W) 0 Lux with IR illumination on	0.23 Lux @ F1.6 (Color) 0.01 Lux @ F1.6 (B/W)
Max. Video Resolution	2048x1536 (3MP)	1920x1080 (2MP)	1920x1080 (2MP)	2048x1536 (3MP)	2048x1536 (3MP)	4512x1728	7552x1416
Frames per Second	20 fps @ 2048x1536	30 fps @ 1280x800	30 fps @1920x1080	30 fps @ 2048x1536	30 fps @ 2048x1536	30 fps @ 4512x1728	7 fps @ 7552x1416
Video Compression	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Dual-Codec (H.264/MJPEG)
Multiple Streams	3 Streams	4 Streams	4 Streams	3 Streams	3 Streams	4 Streams	4 Streams
WDR Technology*	WDR Pro	WDR Enhanced	WDR Enhanced	WDR Pro	WDR Pro	WDR Pro	WDR Enhanced
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	-	-	-	-	-	-	-
Power Input	DC12V AC24V PoE	PoE	PoE	PoE	PoE	PoE	AC 24V PoE
Power Consumption	Max. 6.2 W	Max. 2.01 W	Max. 2.01 W	Max. 4.9 W	Max. 11.3 W	Max. 15.2 W	Max. 43.5/15.6 W (AC 24V-Heater on/off) Max. 23.5/15.6 W (PoE-Heater on/off)
Digital Input / Output	1/1	-	-	-	-	-	1/1
Audio	Two-way Audio Built-in microphone External microphone input External line output	-	One-way Audio Built-in Microphone	One-way Audio Built-in Microphone	One-way Audio Built-in Microphone	One-way Audio Built-in Microphone	Two-way Audio External microphone input External line output
Audio Compression	G.711, G.726	-	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726
ONVIF	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G
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
Housing	IP67, IK10+	-	-	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10
Dimensions	226 x 221 x 112 mm	28 (D) x 50 (W) x 867 (H) mm	28 (D) x 50 (W) x 88 (H) mm (body only) 40 (D) x 58 (W) x 127 (H) mm (w/ tilt mount)	115 (D) x 65 (W) x 59 (H) mm	160 (D) x 72 (W) x 60 (H) mm	Ø 165 x 97 mm	Ø 130 x 123 x 275 mm
Operating Temperature	-10°C ~ 55°C (14°F~ 131°F)	-10°C ~ 40°C (14°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-50°C ~ 60°C (-58°F ~ 140°F) (AC 24V) -20°C ~ 60°C (-4°F ~ 140°F) (PoE)

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*WDR Pro: Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is between 100dB and 140dB.
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Network Cameras

Form Factor	180° Panoramic Cameras	360° Fisheye Cameras		360° Fisheye Cameras			
Video Resolution	12 Megapixel	5 Megapixel		5 Megapixel			
			H.265 WDR Coming Soon		H.265 WDR	H.265 WDR	H.265 WDR
Model Name	MS8392-EV	FE8180	FE9180-H	FE8182	FE9181-H	FE9381-EHV	FE9182-H
Summary	12MP, 7fps, H.264/MJPEG, 180° Panoramic View, IP66, IK10	5MP, 15fps, H.264/MJPEG, 360° Surround View, Compact Size	5MP, 15fps, h.265/H.264/MJPEG, 360° Surround View, Compact Size	5MP, 15fps, H.264/MJPEG, 360° Surround View, Recessed-Mount, Ultra-mini Size	5MP, 30fps, H.265/H.264/MJPEG, 360° Surround View, Smart Stream II	5MP, 30fps, H.265/H.264/MJPEG, 360° Surround View, Smart Stream II, EN50155	5MP, 30fps, H.265/H.264/MJPEG, 360° Surround View, 360° 20 m IR, Smart Stream II
Sensor Type	1/2.8" Progressive CMOS	1/2.5" Progressive CMOS in 2560x1920	1/2.7" Progressive CMOS in 2560x1920	1/3.2" progressive CMOS	1/1.8" Progressive CMOS in 3096x2094	1/1.8" Progressive CMOS in 3096x2094	1/1.8" Progressive CMOS in 3096x2094
Lens Type	Fixed-focal	Fixed-focal	Fixed-focal	Fixed Focal	Fixed-focal	Fixed-focal	Fixed-focal
F-number	F1.6	F2.2	F2.25	F2.0	F2.2	F2.2	F2.2
Focal Length	f = 6 mm	f = 1.57 mm	f = 1.16 mm	f = 1.05 mm	f = 1.47 mm	f = 1.47 mm	f = 1.47 mm
Field of View	180° (H) 34° (V)	180° (H) 180° (V)	180° (H) 180° (V)	180° (H) 180° (V)	180° (H) 180° (V)	180° (H) 180° (V)	180° (H) 180° (V)
Auto-iris	-	-	-	-	-	-	-
Day/Night	-	-	-	-	Yes	Yes	Yes
IR Illuminators	-	-	-	-	-	-	20 m, IR LED*6
Min. Illumination	0.23 Lux @ F1.6 (Color) < 0.01 Lux @ F1.6 (B/W)	0.18 Lux @ F2.2 (Color)	TBD	0.6 Lux @ F2.0 (Color)	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)	0.18 Lux @ F2.2 (Color) 0.001 Lux @ F2.2 (B/W)
Max. Video Resolution	7552x1416	1920x1920	1920x1920	1920x1920	1920x1920	1920x1920	1920x1920
Frames per Second	7 fps @ 7552x1416	15 fps @ 1920x1920 30 fps @ 1920x1080	15 fps @ 1920x1920 30 fps @ 1920x1080	15 fps @ 1920x1920	H.265/H.264: 30 fps @ 1920x1920 MJPEG: 12 fps @ 1920x1920	H.265/H.264: 30 fps @ 1920x1920 MJPEG: 12 fps @ 1920x1920	H.265/H.264: 30 fps @ 1920x1920 MJPEG: 12 fps @ 1920x1920
Video Compression	Dual-Codec (H.264/MJPEG)	Dual-Codec (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)	Triple-Codec (H.265/H.264/MJPEG)
Multiple Streams	4 Streams	3 streams	3 Streams	3 Streams	4 Streams	4 Streams	4 Streams
WDR Technology*	WDR Enhanced	WDR Enhanced	WDR Pro	WDR Enhanced	WDR Pro	WDR Pro	WDR Pro
3DNR	-	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	-	-	-	-	-	-	-
Power Input	AC 24V PoE	PoE	PoE	PoE	DC 12V PoE	DC 12V PoE	DC 12V PoE
Power Consumption	Max. 41.5/8.5 W (AC 24V-Heater on/off) Max. 23.5/8.5 W (PoE-Heater on/off)	Max. 3.6 W	Max. 3.6 W	Max. 3 W	Max. 5.5 W	Max. 13 W	Max. 12.95 W
Digital Input / Output	1/1	-	-	-	1/1	1/1	1/1
Audio	Two-way Audio External microphone input External line output	-	One-way Audio Built-in Microphone	One-way Audio Built-in Microphone	Two-way Audio Built-in microphone External microphone input External line output	Two-way Audio Built-in microphone External microphone input External line output	Two-way Audio Built-in microphone External microphone input External line output
Audio Compression	G.711, G.726	-	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726
ONVIF	Profile S/G	Profile S	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G
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	MicroSD/SDHC/SDXC card slot
Housing	IP66, IK10	-	-	-	-	IP66, IK10	-
Dimensions	Ø 155 x 137 mm (w/o sunshield) Ø 155 x 148 mm (w/ sunshield)	Ø 90 x 37 mm	Ø 94 x 35 mm	Ø 60 x 102 mm	Ø 139 x 38 mm	Ø 145 x 50 mm	Ø160 x 39 mm
Operating Temperature	-50°C ~ 50°C (-58°F ~ 122°F) (AC 24V) -20°C ~ 50°C (-4°F ~ 122°F) (PoE)	-10°C ~ 40°C (14°F ~ 104°F)	-10°C ~ 40°C (14°F ~ 104°F)	-10°C ~ 40°C (14°F ~ 104°F)	-10°C ~ 50°C (14°F ~ 122°F)	-40°C ~ 55°C (-40°F ~ 131°F)	-10°C ~ 50°C (14°F ~ 122°F)

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*WDR Pro II: Captures alternate frames using different exposure times, combining them into a single image. The dynamic range is higher than 140dB.

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Network Cameras

Form Factor	360° Fisheye Cameras			Multi-Adjustable Views Camera	Mobile Dome Cameras		
Video Resolution	5 Megapixel	12 Megapixel		12 Megapixel	1.2 Megapixel	2 Megapixel	
	H.265 WDR	H.265 NEW	H.265 NEW	SNV NEW	WDR	WDR NEW	WDR NEW
Model Name	FE9382-EHV	FE9191	FE9391-EV	MA8391-ETV	MD8531H	MD8563-DEH MD8563-EH	MD8564-EH
Summary	5MP, 30fps, H.265/H.264/MJPEG, 360° Surround View, 360° 20 m IR, Smart Stream II, EN50155	12MP CMOS Sensor, 20fps, H.265/H.264/ MJPEG, 360° Panomorph View, Smart Steam II, PPTZ	12MP CMOS Sensor, 20fps, H.265/H.264/ MJPEG, 360° Panomorph View, Smart Steam II, PPTZ, Smart IR II, 360° 20 m IR, EN50155	12MP, 7fps, H.264/MJPEG, Remote Focus, SNV*, IP66, IK10, Multi-Directional	1.2MP, 30fps, H.264/MJPEG/MPEG-4, 3DNR, WDR Pro (120dB), IP66, IK10, EN50155	2MP, 30fps, H.264/MJPEG, WDR Pro, Smart Stream II, IP67, IK10, EN50155 TX, M12 Connector	2MP, 30fps, H.264/MJPEG, 30 m IR, IP6K9K/ IP68, IK10+, NEMA 4X, EN50155 TX, M12 Connector
Sensor Type	1/1.8" Progressive CMOS in 3096x2094	1/1.7" Progressive CMOS in 4000x3000	1/1.7" Progressive CMOS in 4000x3000	1/2.8" Progressive CMOS	1/3" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS in 1920x1080
Lens Type	Fixed-focal	Fixed-focal	Fixed-focal	Vari-focal Remote Focus	Fixed-focal	Fixed-focal	Fixed-focal
F-number	F2.2	F2.2	F2.2	F1.6	F1.8	F1.8 [MD8563-(D)EH(2.8mm)] F2.0 [MD8563-(D)EH(3.6mm)]	F2.0
Focal Length	f = 1.47 mm	f = 1.29 mm	f = 1.29 mm	f = 2.8 ~ 8 mm	f = 3.6 mm (MD8531H-F3) f = 4.2 mm (MD8531H-F4)	f = 2.8 mm [MD8563-(D)EH(2.8mm)] f = 3.6 mm [MD8563-(D)EH(3.6mm)]	f = 6 mm (optional: 3.6 mm, 8 mm)
Field of View	180° (H) 180° (V)	180° (H) 180° (V)	180° (H) 180° (V)	51° ~ 105° (H) 37° ~ 72° (V)	80° (H), 57° (V) (MD8531H-F3) 68° (H), 50° (V) (MD8531H-F4)	114° (H), 65° (V) [MD8563-(D)EH(2.8mm)] 96° (H), 53° (V) [MD8563-(D)EH(3.6mm)]	57° (H) 30° (V)
Auto-iris	-	-	-	-	-	-	-
Day/Night	Yes	Yes	Yes	Yes	-	Yes	Yes
IR Illuminators	20 m, IR LED*6	-	20 m	-	-	-	30 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)	0.18 Lux @ F2.2 (Color) <0.001 Lux @ F2.2 (B/W)	0.23 Lux @ F1.6 (Color) 0.01 Lux @ F1.6 (B/W)	0.4 Lux @ F1.8 (Color)	MD8563-(D)EH(2.8mm): 0.21 Lux @ F1.8 (Color) MD8563-(D)EH(3.6mm): 0.23 Lux @ F2.0 (Color)	0.18 Lux @ F2.0 (Color) 0.01 Lux @ F2.0 (B/W) 0 Lux with IR illumination on
Max. Video Resolution	1920x1920	2816x2816	2816x2816	2048x1536 (3MP) x 4	1280x960 (1.2MP)	1920x1080 (2MP)	1920x1080 (2MP)
Frames per Second	H.265/H.264: 30 fps @ 1920x1920 MJPEG: 12 fps @ 1920x1920	20 fps @ 2816x2816	20 fps @ 2816x2816	7 fps @ 2048x1536	30 fps @ 1280x960	30 fps @ 1920x1080 45 fps @ 1280x720	30 fps @ 1920x1080 45 fps @ 1280x720
Video Compression	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)	Triple-Codec (H.264/MJPEG/MPEG-4)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264 & MJPEG)
Multiple Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams
WDR Technology*	WDR Pro	WDR Enhanced	WDR Enhanced	WDR Enhanced	WDR Pro	WDR Pro	WDR Pro
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	-	-	-	-	-	-	-
Power Input	DC 12V PoE	DC 12V PoE	DC 12V PoE	AC 24V PoE	PoE	DC 8~36V (MD8563-DEH) PoE (MD8563-EH)	PoE (for Camera System) DC 24V (for Heater)
Power Consumption	Max. 20 W	Max. 6.49 W	Max. 25 W	Max. 24 W	Max. 4.5 W	Max. 4.2 W	Max. 10 W/5.7 W (IR on/off) Heater: 50 W
Digital Input / Output	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Audio	Two-way Audio Built-in microphone External microphone input External line output	Two-way Audio Built-in microphone External microphone input External line output	Two-way Audio Built-in microphone External microphone input External line output	One-way Audio Built-in microphone	Two-way Audio Built-in microphone Audio output	Two-way Audio Built-in microphone External line output	Two-way Audio External Microphone in External line out
Audio Compression	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726
ONVIF	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S	Profile S/G	Profile S/G
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	MicroSD/SDHC/SDXC Card Slot
Housing	IP66, IK10	-	IP66, IK10	IP66, IK10	IP66, IK10	IP67, IK10	IP6K9K/IP68, IK10+, NEMA 4X
Dimensions	Ø160 x 51 mm	Ø 139 x 39 mm	Ø 160 x 62 mm	Ø 210 x 111 mm Ø 210 x 97 mm (w/o cover plate)	129 (D) x 107 (W) x 54 (H) mm	129 (D) x 107 (W) x 54 (H) mm	242 (D) x 162 (W) x 82 (H) mm
Operating Temperature	-40°C ~ 55°C (-40°F ~ 131°F)	-10°C ~ 50°C (14°F ~ 122°F)	-40°C ~ 50°C (-40°F ~ 122°F)	-40°C ~ 55°C (-40°F ~ 131°F)	-25°C ~ 55°C (-13°F ~ 131°F)	-40°C ~ 70°C (-40°F ~ 158°F)	-40°C ~ 70°C (-40°F ~ 158°F)

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*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.

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Network Cameras

Form Factor	Mobile Dome Cameras	PTZ Cameras		PTZ Cameras				
Video Resolution	2 Megapixel			2 Megapixel				
	NEW	H.265 WDR	H.265 WDR	H.265 WDR	H.265 WDR	H.265 WDR	H.265 WDR
Model Name	MD8565-N	SD9161-H	SD9361-EHL	SD9362-EH SD9362-EHL	SD9363-EHL	SD9364-EH SD9364-EHL	SD9365-EHL
Summary	2MP, 30fps, H.264/MJPEG, Invisible IR, IP66, IK10, NEMA 4X, EN50155 T1, M12 Connector	2MP, 30fps, H.265/H.264/MJPEG, WDR Pro, 10x	2MP, 60fps, H.265/H.264/MJPEG, 20x, WDR Pro, Smart Stream II, IP68, NEMA 4X	2MP, 60fps, H.265/H.264/MJPEG, 30x, WDR Pro, Smart Stream II, IP68, NEMA 4X	2MP, 60fps, 150 m VAIR, H.265/H.264/ MJPEG, 20x, WDR Pro, Smart Stream II, IP66, NEMA 4X	2MP, 60fps, 150/250 m VAIR, H.265/H.264/ MJPEG, 30x, WDR Pro, Smart Stream II, IP66, NEMA 4X	2MP, 60fps, 150 m VAIR, H.265/H.264/ MJPEG, 20x, WDR Pro, Smart Stream II, IP66, NEMA 4X, Wiper
Sensor Type	1/2.9" Progressive CMOS in 1920x1080	1/3" Progressive CMOS	1/3" Progressive CMOS	1/2.8" Progressive CMOS (SD9362-EH) 1/3" Progressive CMOS (SD9362-EHL)	1/3" Progressive CMOS	1/2.8" Progressive CMOS (SD9364-EH) 1/3" Progressive CMOS (SD9364-EHL)	1/3" Progressive CMOS
Lens Type	Fixed-focal	10x Optical Zoom Auto Focus	20x Optical Zoom Auto Focus	30x Optical Zoom Auto Focus	20x Optical Zoom Auto Focus	30x Optical Zoom Auto Focus	20x Optical Zoom Auto Focus
F-number	F1.8 [MD8565-N(2.8mm)] F2.1 [MD8565-N(3.6mm)]	F1.6 ~ F1.8	F1.6 ~ F3.5	F1.6 ~ F4.7	F1.6 ~ F3.5	F1.6 ~ F4.7	F1.6 ~ F3.5
Focal Length	f = 2.8 mm [MD8565-N(2.8mm)] f = 3.6 mm [MD8565-N(3.6mm)]	f= 5.1 ~ 51 mm	f= 4.7 ~ 94 mm	f= 4.3 ~ 129 mm	f = 4.7 ~ 94 mm	f = 4.3 ~ 129 mm	f = 4.7 ~ 94 mm
Field of View	113°(H), 63°(V) [MD8565-N(2.8mm)] 77°(H), 41°(V) [MD8565-N(3.6mm)]	4.9° ~ 54° (H) 4° ~ 31° (V)	3° ~ 55° (H) 2° ~ 33° (V)	2° ~ 64° (H), 1° ~ 39° (V) (SD9362-EH) 2° ~ 59° (H), 2° ~ 45° (V) (SD9362-EHL)	3° ~ 55° (H) 2° ~ 33° (V)	2.3° ~ 64° (H), 1.3° ~ 36° (V) (SD9364-EH) 2° ~ 59° (H), 2° ~ 45° (V) (SD9364-EHL)	3° ~ 55° (H) 2° ~ 33° (V)
Auto-iris	-	DC-iris	DC-iris	DC-iris	DC-iris	DC-iris	DC-iris
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR Illuminators	10 m, IR LED*4	-	-	-	150 m	250 m (SD9364-EH) 150 m (SD9364-EHL)	150 m
Min. Illumination	MD8565-N(2.8mm): 0.16 Lux @ F1.8 (Color) < 0.01 Lux @ F1.8 (B/W) 0 Lux with IR illumination on MD8565-N(3.6mm): 0.18 Lux @ F2.1 (Color) < 0.01 Lux @ F2.1 (B/W) 0 Lux with IR illumination on	0.2 Lux @ F1.6 (Color) 0.01 Lux @ F1.6 (B/W)	0.26 Lux @ F1.6 (Color) 0.01 Lux @ F1.6 (B/W)	SD9362-EH: 0.5 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)	0.26 Lux @ F1.6 (Color) 0.01 Lux @ F1.6 (B/W) 0 Lux with IR illumination on	SD9364-EH: 0.07 Lux @ F1.6 (Color) 0.01 Lux @ F1.6 (B/W) 0 Lux with IR illumination on SD9364-EHL: 0.42 Lux @ F1.6 (Color) 0.01 Lux @ F1.6 (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. Video Resolution	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)
Frames per Second	30 fps @ 1920x1080 60 fps @ 1280x720	30 fps @ 1920x1080	H.265 & H.264: 60 fps @ 1920x1080 MJPEG: 30 fps @ 1920x1080	H.265 & H.264: 60 fps @ 1920x1080 MJPEG: 30 fps @ 1920x1080	H.265 & H.264: 60 fps @ 1920x1080 MJPEG: 30 fps @ 1920x1080	H.265 & H.264: 60 fps @ 1920x1080 MJPEG: 30 fps @ 1920x1080	H.265 & H.264: 60 fps @ 1920x1080 MJPEG: 30 fps @ 1920x1080
Video Compression	Dual-Codec (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)	Triple-Codec (H.265/H.264/MJPEG)
Multiple Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams
WDR Technology*	WDR Enhanced	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	-	-	-	-	-	-	-
Power Input	DC 7.5~48V PoE	PoE DC 24V AC 24V	60W UPoE DC 24V AC 24V	60W UPoE DC 24V AC 24V	95W PoH/PoE DC 48V	95W PoH/PoE DC 48V	95W PoH/PoE DC 24V AC 24V
Power Consumption	Max. 5.5 W	Max. 15 W	Max. 48/26 W (Heater on/off)	Max. 48/26 W (Heater on/off)	Max. 81.8/28.5 W (Heater on/off)	Max. 81.8/28.5 W (Heater on/off)	PoH/PoE (95W): Max. 70/39 W (Heater on/off) DC 24V/AC 24V: Max. 96/45 W (Heater on/off)
Digital Input / Output	1/1	4/2	4/2	4/2	4/2	4/2	4/2
Audio	One-way Audio Built-in microphone	Two-way Audio External microphone input External line output	Two-way Audio External microphone input External line output	Two-way Audio External microphone input External line output	Two-way Audio External microphone input External line output	Two-way Audio External microphone input External line output	Two-way Audio External microphone input External line output
Audio Compression	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726
ONVIF	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S/G
On-board Storage	MicroSD/SDHC/SDXC Card Slot	MicroSD/SDHC/SDXC Card Slot	MicroSD/SDHC/SDXC Card Slot	MicroSD/SDHC/SDXC Card Slot	SD/SDHC/SDXC Card Slot	SD/SDHC/SDXC Card Slot	MicroSD/SDHC/SDXC Card Slot
Housing	IP66, IK10, NEMA 4X	-	IP68, IK10, NEMA 4X	IP68, IK10, NEMA 4X	IP66, IK10, NEMA 4X	IP66, IK10, NEMA 4X	IP66, IK10, NEMA 4X
Dimensions	Ø 110 x 57 mm	Ø 172 x 157 mm	Ø 162 x 221 mm	Ø 162 x 221 mm	Ø 204 x 285 mm	Ø 204 x 285 mm	237 x 364 mm
Operating Temperature	-25°C ~ 55°C (-13°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)	-50°C ~ 55°C (-58°F ~ 131°F)	-40°C ~ 55°C (-40°F ~ 131°F)

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Network Cameras

Form Factor	PTZ Cameras	Cube Cameras	Split-type Camera System	Split-type Camera System			
Video Resolution	2 Megapixel	2 Megapixel		2 Megapixel	1 Megapixel	1&5 Megapixel	5 Megapixel
	H.265 WDR	Wifi	WDR	WDR	WDR	WDR	
Model Name	SD9366-EH SD9366-EHL	IP8160 IP8160-W	VC8101 CU8161-H	VC8101 CU8163-H	VC8201-M11 (with CU8131x2)	VC8201-M13 (with CU8131+CU8171)	VC8201-M33 (with CU8171x2)
Summary	2MP, 60fps, 150/250 m VAIR, H.265/H.264/ MJPEG, 30x, WDR Pro, Smart Stream II, IP66, NEMA 4X, Wiper	2MP, 30fps, H.264/MJPEG, 8 m IR, AEC, Wi-Fi (IP8160-W)	1-CH, Pinhole(CU8161-H), 2MP, 30fps, H.264/MJPEG, WDR Pro, Recessed-Mount	1-CH, Fisheye Surround View(CU8163-H), 2MP, 30fps, H.264/MJPEG, WDR Pro, Recessed-Mount	2-CH, 1MP(CU8131), 30fps, H.264/MJPEG, WDR Pro, Recessed-Mount	2-CH, 1MP&30fps&WDR Pro(CU8131), 5MP&15fps&Fisheye (CU8171), H.264/ MJPEG, Recessed-Mount	2-CH, 5MP, 15fps, H.264/MJPEG, Fisheye Surround View(CU8171), Recessed-Mount
Sensor Type	1/2.8" Progressive CMOS (SD9366-EH) 1/3" Progressive CMOS (SD9366-EHL)	1/2.9" Progressive CMOS in 1920x1080	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/3" Progressive CMOS	1/3" Progressive CMOS (CU8131) 1/2.5" Progressive CMOS in 2560x1920 (CU8171)	1/2.5" Progressive CMOS in 2560x1920
Lens Type	30x Optical Zoom Auto Focus	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal
F-number	F1.6 ~ F4.7	F1.8	F2.5	F2.0	F1.8	F1.8 (CU8131) F2.0 (CU8171)	F2.0
Focal Length	f = 4.3 ~ 129 mm	f = 2.8 mm	f = 3.7 mm	f = 1.6 mm	f = 3.6 mm	f = 3.6 mm (CU8131) f = 1.27 mm (CU8171)	f = 1.27 mm
Field of View	2.3° ~ 64° (H) 1.3° ~ 36° (V)	113° (H) 63° (V)	93° (H) 48° (V)	180° (H) 140° (V)	86° (H) 51° (V)	86° (H), 51° (V) (CU8131) 180° (H), 180° (V) (CU8171)	180° (H) 180° (V)
Auto-iris	DC-iris	-	-	-	-	-	-
Day/Night	Yes	Yes	-	-	-	-	-
IR Illuminators	250 m (SD9366-EH) 150 m (SD9366-EHL)	8 m, IR LED*2	-	-	-	-	-
Min. Illumination	SD9366-EH: 0.07 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	0.07 Lux @ F1.8 (Color) < 0.01 Lux @ F1.8 (B/W) 0 Lux with IR illumination on	1.10 Lux @ F2.5 (Color)	0.66 Lux @ F2.0 (Color)	1.05 Lux @ F1.8, 50 IRE (Color)	1.05 Lux @ F1.8, 50 IRE (Color) (CU8131) 0.66 Lux @ F2.0, 50 IRE (Color) (CU8171)	0.66 Lux @ F2.0, 50 IRE (Color)
Max. Video Resolution	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1280x800	1280x800 (CU8131) 1696x1696 (CU8171)	1696x1696
Frames per Second	H.265 & H.264: 60 fps @ 1920x1080 MJPEG: 30 fps @ 1920x1080	30 fps @ 1920x1080	30 fps @ 1920x1080	30 fps @ 1920x1080	30 fps @ 1280x800	30 fps @ 1280x800 (CU8131) 15 fps @ 1696x1696 (CU8171)	15 fps @ 1696x1696
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Dual-Codec (H.264 & MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)
Multiple Streams	4 Streams	3 Streams	4 Streams	4 Streams	3 Streams	3 Streams	3 Streams
WDR Technology*	WDR Pro	WDR Enhanced	WDR Pro	WDR Pro	WDR Pro	WDR Pro (CU8131) WDR Enhanced (CU8171)	WDR Enhanced
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	-	-	-	-	-	-	-
Power Input	95W PoH/PoE DC 24V AC 24V	PoE (IP8160) DC 5V (IP8160-W)	DC 8~36V PoE	DC 8~36V PoE	DC 12V PoE	DC 12V PoE	DC 12V PoE
Power Consumption	PoH/PoE (95W): Max. 70/39 W (Heater on/off) DC 24V/AC 24V: Max. 96/45 W (Heater on/off)	Max. 5.5 W (IP8160) Max. 8 W (IP8160-W)	Max. 5.5 W	Max. 5.5 W	Max. 10.8 W	Max. 10.8 W	Max. 10.8 W
Digital Input / Output	4/2	-	1/1	1/1	2/2	2/2	2/2
Audio	Two-way Audio External microphone input External line output	Two-way Audio Built-in microphone Built-in speaker	Two-way Audio (from Video Core: VC8101)	Two-way Audio (from Video Core: VC8101)	Audio Input x 2 (from Camera Unit: CU8131)	Audio Input x 2 (from Camera Unit: CU8131/CU8171)	Audio Input x 2 (from Camera Unit: CU8171)
Audio Compression	G.711, G.726	G.711, G.726	G.711, G.726	G.711, G.726	GSM-AMR, G.711	GSM-AMR, G.711	GSM-AMR, G.711
ONVIF	Profile S/G	Profile S/G	Profile S/G	Profile S/G	Profile S	Profile S	Profile S
On-board Storage	MicroSD/SDHC/SDXC Card Slot	MicroSD/SDHC/SDXC Card Slot	MicroSD/SDHC/SDXC Card Slot	MicroSD/SDHC/SDXC Card Slot	SD/SDHC/SDXC Card Slot	SD/SDHC/SDXC Card Slot	SD/SDHC/SDXC Card Slot
Housing	IP66, IK10, NEMA 4X	-	-	-	-	-	-
Dimensions	237 x 364 mm	Ø 66 x 39 mm	105 x 84 x 30 mm (VC8101) Ø 24 x 37 mm (CU8161-H, w/o cable)	105 x 84 x 30 mm (VC8101) Ø 24 x 43 mm (CU8163-H, w/o cable)	145 x 105 x 32 mm (VC8201) Ø 60 x 93 mm (CU8131)	145 x 105 x 32 mm (VC8201) Ø 60 x 93 mm (CU8131) Ø 60 x 81 mm (CU8171)	145 x 105 x 32 mm (VC8201) Ø 60 x 81 mm (CU8171)
Operating Temperature	-40°C ~ 55°C (-40°F ~ 131°F)	0°C ~ 40°C (32°F ~ 104°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F) (VC8201) -10°C ~ 40°C (14°F ~ 104°F) (CU8131)	-10°C ~ 50°C (14°F ~ 122°F) (VC8201) -10°C ~ 40°C (14°F ~ 104°F) (CU8131/ CU8171)	-10°C ~ 50°C (14°F ~ 122°F) (VC8201) -10°C ~ 40°C (14°F ~ 104°F) (CU8171)

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*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.

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Network Cameras

Network Camera Model - Naming Rule

IP 8 1 6 A - LPC - 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
IZ	Zoom Lens Camera
MA	Multiple Adjustable Views Camera
MD	Mobile Dome Camera
MS	Multiple Sensor Camera
SC	System Camera
SD	Speed Dome Camera
VC	Video Core

3rd A/V Type

NO.	Description
8	H.264 / MPEG4 / 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	IP Camera
3	Outdoor IP Camera
5	Specific Regulation Certified

5th IP Camera - Video Type

NO.	Description
1	NTSC CCD
2	≥ 20MP CMOS Sensor
3	≤ 1.0MP CMOS Sensor (HD)
4	N/A
5	> 1.0MP 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
5	1st Tier - Remote Focus
6	Compact Mini
7	Standard Form Factor - Vari-focal
8	Small Form Factor - Manual Focus
9	Small Form Factor - Fixed Focus
A - Z	Product Version

7th Extension/Feature

NO.	Description
D	DC Power Input
E	Extended Temperature ≤ -40°C or ≥ 65°C
H	High Dynamic Range (Wide Dynamic Range)
L	Lite
LPC	License Plate Capture
M	Dehumidifier
N	940mm IR LED
P	P-iris (Box Cameras)
T	Remote Focus
V	Outdoor Vandal Proof
W	Wireless

8th Versi Extension

NO.	Description
v	1 - 99

Video Servers

Type	Video Servers			
Video Resolution	D1			
Model Name	VS8801	VS8401	VS8102	VS8100-v2
Short Highlight	8-CH, Rack-mount Design	4-CH, Rack-mount Design	1-CH, DC 12V Output for Analog Camera	1-CH, Ultra-mini Size, Power Sharing with Analog Camera
Max. Video Resolution	720x480/NTSC 720x576/PAL	720x480/NTSC 720x576/PAL	720x480/NTSC 720x576/PAL	720x480/NTSC 720x576/PAL
Frames per Second	30 fps @ 720x480 25 fps @ 720x576	30 fps @ 720x480 25 fps @ 720x576	30 fps @ 720x480 25 fps @ 720x576	30 fps @ 720x480 25 fps @ 720x576
Video Compression	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Triple-Codec (H.264/MJPEG/MPEG-4)	Dual-Codec (H.264/MJPEG)
Multiple Streams	1 Stream	2 Streams	4 Streams	3 Streams
Video Source	8 Analog Camera Input	4 Analog Camera Input	1 Analog Camera Input	1 Analog Camera Input
Video Modulation	NTSC/PAL Auto Detection	NTSC/PAL Auto Detection	NTSC/PAL Auto Detection	NTSC/PAL Auto Detection
Audio Capability	Two-way Audio	Two-way Audio	Two-way Audio	Audio In
Audio Compression	G.711	G.711	GSM-AMR, AAC, G.711	G.726, G.711
Serial Connectors	RS485	RS485	RS485	RS485
Pan/Tilt/Zoom Control	Yes	Yes	Yes	Yes
Networking	10/100/1000 Mbps Ethernet	10/100/1000 Mbps Ethernet	10/100 Mbps Ethernet	10/100 Mbps Ethernet
Power Input	DC 12V AC 24V	DC 12V AC 24V	PoE DC 12V AC 24V	DC 12V
Power Consumption	Max. 24 W	Max. 24 W	Max. 5 W	Max. 3 W
Digital Input /Output	8/8	4/4	1/1	-
Motion Detection	Yes	Yes	Yes	Yes
On-board Storage	-	SD/SDHC Card Slot	SD/SDHC Card Slot	-
Dimensions	189 (W) x 153 (D) x 49.3 (H) mm	189 (W) x 153 (D) x 49.3 (H) mm	130 (W) x 78.35 (D) x 33.85 (H) mm	65 (W) x 34 (D) x25 (H) mm
Operating Temperature	-10°C ~ 50 °C (14°F ~ 122°F)	-10°C ~ 50 °C (14°F ~ 122°F)	0 ~ 55 °C (32 ~ 131 °F)	0°C ~ 50 °C (32°F ~ 122°F)

Video Receivers

Type	Video Receiver
	H.265 NEW
Model Name	RX9401
Short Highlight	H.265, 16-CH, HDMI, ONVIF
Operating System	Embedded Linux
Video Compression	H.265/H.264/MJPEG
Channels	Up to 16 channels
Local Display	HDMI output
Support Resolution	3840x2160 1920x1080 1280x720
Fisheye Dewarp	Dewarping mode: 1O, 1P, 1R, 1O3R, 1P3R, 1O8R
Connectors	Ethernet 10/100 RJ45 *1 USB 2.0 *2
Power	DC 12V 1.5A
Power Consumption	Max. 9.24 W
Approvals	CE, LVD, FCC, VCCI, C-Tick
Installation, Management, and Maintenance	Installation Wizard 2, Shepherd
Weight	530 g
Dimensions	198 (W) x 200 (D) x 47(H)mm

Network Video Recorders

Type	Network Video Recorders	Network Video Recorders			
	WiFi NEW	NEW		H.265	H.265
Model Name	ND8212W	ND8312	ND8322P/ND8422P	ND9441/ND9541	ND9441P/ND9541P
Short Highlight	H.264, 4-CH, 1xHDD, HDMI, Wi-Fi, VIVOCloud, ONVIF, Support 4CH Wi-Fi + 4CH Wired	H.264, 8-CH, 1xHDD, HDMI, VIVOCloud, ONVIF	H.264, 8/16-CH, 8x PoE, 2x HDD, HDMI/VGA Local Display, RAID, Fisheye Dewarp, VIVOCloud, POS Integration	H.265/H.264, 16/32-CH, 4x HDD, Dual LAN, HDMI/VGA Local Display, RAID, Fisheye Dewarp, VIVOCloud, POS Integration	H.265/H.264, 16/32-CH, 16x PoE, 4x HDD, HDMI/VGA Local Display, PoE Management, RAID, Fisheye Dewarp, VIVOCloud, POS Integration
Operating System	Embedded Linux	Embedded Linux	Embedded Linux	Embedded Linux	Embedded Linux
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Channels	Up to 4CH Wi-Fi + 4CH Wired	Up to 8 channels	Up to 8/16 channels	Up to 16/32 channels	Up to 16/32 channels
PoE	-	-	8x 802.3at/af Compliant PoE Ports (Total Max. 80W)	-	16x 802.3at/af Compliant PoE Ports (Total Max. 160W)
WiFi	2.4Ghz 802.11 b/g/n	-	-	-	-
Hard Disk	3.5" SATA I/II/III HDD*1, up to 6TB	3.5" SATA I/II/III HDD*1, up to 6TB	3.5" SATA I/II/III HDD*2, up to 16TB	3.5" SATA I/II/III HDD*4, up to 32TB	3.5" SATA I/II/III HDD*4, up to 32TB
RAID	-	-	RAID 0, 1	RAID 0, 1, 5	RAID 0, 1, 5
Recording Throughput	Wi-Fi: Max. 24 Mbps	Total: 48 Mbps	Total: 64/96 Mbps	Total: 192 Mbps	Total: 192 Mbps
Local Display	HDMI video output	HDMI video output	HDMI/VGA video output	HDMI/VGA video output	HDMI/VGA video output
Support Resolution	3840x2160 1920x1080 1280x720	3840x2160 1920x1080 1280x720	1920x1080 1280x720	1920x1080 1280x720	1920x1080 1280x720
Cloud Service	VIVOCloud App/Portal	VIVOCloud App/Portal	VIVOCloud App/Portal	VIVOCloud App/Portal	VIVOCloud App/Portal
Fisheye Dewarp	Dewarping mode: 1O, 1P, 1R, 1O3R, 1P3R, 1O8R	Dewarping mode: 1O, 1P, 1R, 1O3R, 1P3R, 1O8R	Dewarping mode: 1O, 1P, 1R, 1O3R, 1O8R	Dewarping mode: 1O, 1P, 1R, 1O3R, 1O8R	Dewarping mode: 1O, 1P, 1R, 1O3R, 1O8R
Connectors	Ethernet 10/100 RJ45 *1 USB 2.0 *2	Ethernet 10/100 RJ45 *1 USB 2.0 *2	Ethernet 10/100/1000 RJ45 *1 Alarm In *8, Alarm Out *4 USB 2.0 *3 eSATA *1 Audio Output *1 Audio Input *1 (Reserved) RS232, 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 *2 Alarm In *8, Alarm Out *4 USB 2.0 *2 USB 3.0 *1 Audio Output *1 Audio Input *1 (Reserved) RS485 (Reserved)
Power	DC 12V 3A	DC 12V 3A	DC 56V 2.32A	DC 56V 2.32A	100~240V AC / 50~60Hz
Power Consumption	Max. 15.6 W	Max. 15 W	Max. 120 W	Max. 120 W	Max. 260 W
Approvals	CE, LVD, FCC, VCCI, C-Tick, MIC, NCC, BSMI	CE, LVD, FCC, VCCI, C-Tick	CE, LVD, FCC, VCCI, C-Tick, UL	CE, LVD, FCC, VCCI, C-Tick, UL	CE, LVD, FCC, VCCI, C-Tick, UL
Installation, Management, and Maintenance	Installation Wizard 2, VAST, Shepherd, VIVOCloud (iOS/Android), iViewer (iOS/Android)	Installation Wizard 2, VAST, Shepherd, VIVOCloud (iOS/Android), iViewer (iOS/Android)	Installation Wizard 2, VAST, Shepherd, VIVOCloud (iOS/Android), iViewer (iOS/Android)	Installation Wizard 2, VAST, Shepherd, VIVOCloud (iOS/Android), iViewer (iOS/Android)	Installation Wizard 2, VAST, Shepherd, VIVOCloud (iOS/Android), iViewer (iOS/Android)
Weight	560 g	550 g	2.7 kg	3.9 kg	4 kg
Dimensions	198 (W) x 200 (D) x 47(H) mm	198 (W) x 200 (D) x 47(H) mm	360 (W) x 311 (D) x 44 (H) mm	430 (W) x 400 (D) x 44.5 (H) mm	430 (W) x 400 (D) x 44.5 (H) mm

Network Video Recorders

Type	Network Video Recorders	
	H.265	H.265 Coming Soon
Model Name	NR9581/NR9681	NR9682/NR9782
Short Highlight	H.265/H.264, 32/64-CH, 8x HDD, Dual LAN, HDMI/DP/DVI/VGA Local Display, Fisheye Dewarp, VAST Inside	H.265/H.264, 64/128-CH, 16x HDD, Dual LAN, HDMI/DP/DVI Local Display, Fisheye Dewarp, VAST Inside
Operating System	Embedded Windows 7	Embedded Windows 7
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Channels	Up to 32/64 channels	Up to 64/128 channels
PoE	-	-
WiFi	-	-
Hard Disk	3.5" SATA I/II/III HDD*8, up to 80TB	3.5" SATA I/II/III HDD*16, up to 160TB
RAID	RAID 0, 1, 5, 6, 10	RAID 0, 1, 5, 6, 10
Recording Throughput	Total: 512 Mbps	Total: 512 Mbps
Local Display	HDMI/DP/DVI/VGA video output	HDMI/DP/DVI video output
Support Resolution	HDMI: 3200x2000 DP: 3200x2000 DVI/VGA: 1920x1200	HDMI: 1920x1080 DVI: 1920x1080 DP: 4096x2304
Cloud Service	-	-
Fisheye Dewarp	Regular: 1O, 1P, 1R, 1O3R, 4R Wall Mount: 1P2R, 1P3R Ceiling/Floor Mount: 2P, 4R Pro, 1O8R	Regular: 1O, 1P, 1R, 1O3R, 4R Wall Mount: 1P2R, 1P3R Ceiling/Floor Mount: 2P, 4R Pro, 1O8R
Connectors	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 USB2.0 x2 USB 3.0 x8 Microphone audio jack input x1 3.5 Line output audio jack x1
Power	Redundant Power 100~240V AC / 50~60Hz	Redundant Power 100~240V AC / 50~60Hz
Power Consumption	Max. 740 W	Max. 550 W
Approvals	CE, LVD, FCC, VCCI, C-Tick, UL	CE, LVD, FCC, VCCI, C-Tick, UL
Installation, Management, and Maintenance	Installation Wizard 2, VAST, Shepherd, iViewer (iOS/Android)	Installation Wizard 2, VAST, Shepherd, iViewer (iOS/Android)
Weight	27 kg	33 kg
Dimensions	437 (W) x 648 (D) x 89 (H) mm	435 (W) x 540 (D) x 132 (H) mm

PoE Solution

Type	NVR Solution Kits			
	WiFi NVR Solution Kit		NVR Solution Kit	
	Wifi NEW	Wifi NEW	NEW	NEW
Solution Kit	ND8212W + IP8160-W x4	ND8212W + IB8360-W x4	ND8312 + IP8160 x4 + AW-FET-060C-065	ND8312 + IB8360 x4 + AW-FET-060C-065
Model Name - NVR	ND8212W	ND8212W	ND8312	ND8312
Summary	H.264, 4-CH, 1xHDD, HDMI, Wi-Fi, VIVOCloud, ONVIF	H.264, 4-CH, 1xHDD, HDMI, Wi-Fi, VIVOCloud, ONVIF	H.264, 8-CH, 1xHDD, HDMI, VIVOCloud, ONVIF	H.264, 8-CH, 1xHDD, HDMI, VIVOCloud, ONVIF
Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
Channels	Up to 4CH Wi-Fi + 4CH Wired	Up to 4CH Wi-Fi + 4CH Wired	Up to 8 channels	Up to 8 channels
WiFi	2.4Ghz 802.11 b/g/n	2.4Ghz 802.11 b/g/n	-	-
Hard Disk	3.5" SATA I/II/III HDD*1, up to 6TB	3.5" SATA I/II/III HDD*1, up to 6TB	3.5" SATA I/II/III HDD*1, up to 6TB	3.5" SATA I/II/III HDD*1, up to 6TB
Local Display	HDMI video output	HDMI video output	HDMI video output	HDMI video output
Cloud Service	VIVOCloud App/Portal	VIVOCloud App/Portal	VIVOCloud App/Portal	VIVOCloud App/Portal
Connectors	Ethernet 10/100 RJ45 *1 USB 2.0 *2	Ethernet 10/100 RJ45 *1 USB 2.0 *2	Ethernet 10/100 RJ45 *1 USB 2.0 *2	Ethernet 10/100 RJ45 *1 USB 2.0 *2
Approvals	CE, LVD, FCC, VCCI, C-Tick, MIC, NCC, BSMI	CE, LVD, FCC, VCCI, C-Tick, MIC, NCC, BSMI	CE, LVD, FCC, VCCI, C-Tick	CE, LVD, FCC, VCCI, C-Tick
Dimensions	198 (W) x 200 (D) x 47 (H) mm	198 (W) x 200 (D) x 47 (H) mm	198 (W) x 200 (D) x 47 (H) mm	198 (W) x 200 (D) x 47 (H) mm
Model Name - IP Camera	IP8160-W	IB8360-W	IP8160	IB8360
Summary	2MP, 30fps, H.264/MJPEG, 8 m IR, AEC, Wi-Fi	2MP, 30fps, H.264/MJPEG, 12 m IR, SNV*, Wi-Fi, Compact Size	2MP, 30fps, H.264/MJPEG, 8 m IR, AEC	2MP, 30fps, H.264/MJPEG, 12 m IR, SNV*, Compact Size
Sensor Type	1/2.9" Progressive CMOS in 1920x1080	1/2.9" Progressive CMOS in 1920x1080	1/2.9" Progressive CMOS in 1920x1080	1/2.9" Progressive CMOS in 1920x1080
Lens Type	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal
F-number	F1.8	F2.0	F1.8	F2.0
Focal Length	f = 2.8 mm	f = 3.6 mm	f = 2.8 mm	f = 3.6 mm
Field of View	113° (H), 63° (V)	89° (H), 46° (V)	113° (H), 63° (V)	89° (H), 46° (V)
Day/Night	Yes	Yes	Yes	Yes
IR Illuminators	8 m, IR LED*2	12 m, IR LED*10	8 m, IR LED*2	12 m, IR LED*10
Min. Illumination	0.07 Lux @ F1.8 (Color) < 0.01 Lux @ F1.8 (B/W)	0.1 Lux @ F2.0 (Color) 0.01 Lux @ F2.0 (B/W)	0.07 Lux @ F1.8 (Color) < 0.01 Lux @ F1.8 (B/W)	0.1 Lux @ F2.0 (Color) 0.01 Lux @ F2.0 (B/W)
Max. Video Resolution	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)
Frames per Second	30 fps @ 1920x1080	30 fps @ 1920x1080	30 fps @ 1920x1080	30 fps @ 1920x1080
WDR Technology*	WDR Enhanced	WDR Enhanced	WDR Enhanced	WDR Enhanced
Cloud Service	-	VIVOCloud App	-	VIVOCloud App
Audio	Two-way Audio	-	Two-way Audio	-
On-board Storage	MicroSD/SDHC/SDXC Card Slot	MicroSD/SDHC/SDXC Card Slot	MicroSD/SDHC/SDXC Card Slot	MicroSD/SDHC/SDXC Card Slot
Housing	-	IP66	-	IP66
Dimensions	Ø 66 x 39 mm	99 x 75 x 164 mm	Ø 66 x 39 mm	99 x 75 x 164 mm
Model Name - PoE Switch	-	-	AW-FET-060C-065	AW-FET-060C-065
Summary	-	-	Unmanaged 4xFE PoE + 2xFE UTP Switch	Unmanaged 4xFE PoE + 2xFE UTP Switch

Type	Outdoor VivoCam L2+ Managed PoE Switch		
Model Name	AW-GET-086A-120	AW-GEU-086A-240	AW-GET-126A-240
Short Highlight	4xGE PoE + 2xGE UTP + 2xGE SFP + 1xRJ45 Console	4xGE UPoE + 2xGE UTP + 2xGE SFP + 1xRJ45 Console	8xGE PoE + 4xGE SFP + 1xRJ45 Console
Ethernet			
10M/100M/1G RJ45 PoE Port	4 /Per Port 30W PoE	4 /Per Port 60W UPoE	8 /Per Port 30W PoE
10M/100M/1G RJ45 Port	2	2	-
1G SFP Slot	2	2	4
RJ45 Console Port	1	1	1
Ethernet Performance			
Backplane	16 Gbps	16 Gbps	24Gbps
Forwarding Capacity	11.904 Mpps	11.904 Mpps	17.856 Mpps
MAC Address	8K	8K	8K
Jumbo Frames	9216 Bytes	9216 Bytes	9216 Bytes
PoE Function			
Number of PoE Port	4	4	8
PoE Output Power	Per Port 54VDC, Max. 30W	Per Port 54VDC, Max. 60W	Per Port 54VDC, Max. 30W
Total PoE Power Budget	120W	240W	240W
Power Pin Assignment	1/2(+), 3/6(-)	15.4W/30W PoE: 1/2(+), 3/6(-) 60W UPoE: 1/2(+), 3/6(-),4/5(+), 7/8(-)	1/2(+), 3/6(-)
PoE Management : PoE Config/Alive Checking/ Scheduling/Power Delay	Supported	Supported	Supported
IEEE 802.3at/af Power over Ethernet	Supported	Supported	Supported
Managing IP Surveillance Management			
Auto Search VIVOTEK Device	Supported	Supported	Supported
Surveillance Management List	Supported	Supported	Supported
Easy Tag VLAN in Topology View	Supported	Supported	Supported
Managing IP Surveillance Graphic View			
Topology View	Supported	Supported	Supported
Floor View	Supported	Supported	Supported
Google Map View	Supported	Supported	Supported
Managing IP Surveillance Maintenance			
VIVOTEK Camera Batch SW Upgrade	Supported	Supported	Supported
VIVOTEK Camera Configuration File Export/Import	Supported	Supported	Supported
Traffic Monitoring	Supported	Supported	Supported
L2 Switching Feature			
IEEE 802.1p Quality of Service	Supported	Supported	Supported
IEEE 802.1q Tag based VLAN	Supported	Supported	Supported
IEEE 802.1d/w/S STP/RSTP/MSTP	Supported	Supported	Supported
IEEE 802.3ad Link Aggregation Control Protocol	Supported	Supported	Supported
IEEE 802.1X Authorization	Supported	Supported	Supported
L3 Switching Feature			
IP Host Table	Supported	Supported	Supported
Static Route (IPv4/IPv6)	Supported	Supported	Supported
Static ARP	Supported	Supported	Supported
DHCP Server	Supported	Supported	Supported
General			
Power Input	100~240V AC / 50~60Hz	100~240V AC / 50~60Hz	100~240V AC / 50~60Hz
Surge Protection /Each PoE Port	6KV	6KV	6KV
Surge Protection for AC Power	40KV	40KV	40KV
Waterproof IP Rating	IP67	IP67	IP67
Vandal Proof	IK10	IK10	IK10
Dimensions	316 (W) x 246 (H) x 118 (D) mm	316 (W) x 246 (H) x 118 (D) mm	316 (W) x 246 (H) x 118 (D) mm
Operating Temperature	-40°C ~ 65°C (-40°F ~ 149°F)	-40°C ~ 65°C (-40°F ~ 149°F)	-40°C ~ 65°C (-40°F ~ 149°F)

Type	Outdoor Unmanaged PoE Switch		
	Fast Ethernet		Gigabit Ethernet
Model Name	AW-FET-053A-120	AW-FET-103A-240	AW-GET-083A-120
Short Highlight	Outdoor Unmanged PoE Switch 4xFE PoE + 1xFE UTP	Outdoor Unmanged PoE Switch 4xFE PoE + 1xFE UTP	Outdoor Unmanaged PoE Switch 4xGE PoE + 2GE UTP + 2xGE SFP
Ethernet			
10M/100M RJ45 Port	5	8	-
10M/100M/1G RJ45 Port	-	-	6
1G SFP Slot	-	-	2
1G Combo Port (RJ45/SFP)	-	2	-
PoE Function			
Number of PoE Port	4	8	4
Max. PoE Output Power /Per Port	Per Port 54VDC, Max. 30W	Per Port 54VDC, Max. 30W	Per Port 54VDC, Max. 30W
Total PoE Power Budget	120W	240W	120W
IEEE 802.3af/at	Supported	Supported	Supported
Power Pin Assignment	1/2(+), 3/6(-)	1/2(+), 3/6(-)	1/2(+), 3/6(-)
PoE PD Auto Detection	Supported	Supported	Supported
Surge Protection/Each PoE port	12 KV	12 KV	6 KV
Surge Protection for AC Power	10 KV	40 KV	40 KV
Ethernet Performance			
Switching Capacity	1 Gbps	5.6 Gbps	16 Gbps
Mac Table	2 K	4 K	8 K
Jumbo Frame	1536 Bytes	1536 Bytes	9216 bytes
Auto-MDI/MDI-X, Auto-Negotiation	Supported	Supported	Supported
Power Specifications			
Power Input Voltage	100VAC ~ 240VAC	100VAC ~ 240VAC	100VAC ~ 240VAC
Alarm Relay	24VDC	24VDC	24VDC
General			
Waterproof Rating	IP67	IP67	IP67
Vandal Proof	IK10	IK10	IK10
Surge Protection /Each PoE Port	12 KV	12 KV	6KV
Surge Protection for AC Power	10 KV	40 KV	40KV
Operating Temperature	-40°C ~ 60°C (-40°F ~ 140°F)	-40°C ~ 60°C (-40°F ~ 140°F)	-40°C ~ 65°C (-40°F ~ 149°F)
Storage Temperature	-40°C~ 85°C (-40°F~ 185°F)	-40°C ~ 75°C (-40°F ~ 167°F)	-40°C ~ 75°C (-40°F ~ 167°F)
Dimensions	310 (W) x 205 (H) x 118 (D) mm	256 (W) x 200 (H) x 90 (D) mm	316 (W) x 246 (H) x 118 (D) mm
Weight	3.2 kg	4.3 kg	4.52 kg
Connectors	M25 x 2	M16 x 4, M25 x 2	M16 x 4, M25 x 2

Type	Outdoor Unmanaged PoE Switch	
	Gigabit Ethernet	
Model Name	AW-GEU-083A-240	AW-GET-123A-240
Short Highlight	Outdoor Unamanged UPoE Switch 4xGE UPoE + 2xGE UTP + 2xGE SFP	Outdoor Unmanged PoE Switch 8xGE PoE + 4xGE SFP
Ethernet		
10M/100M RJ45 Port	-	-
10M/100M/1G RJ45 Port	6	8
1G SFP Slot	2	-
1G Combo Port (RJ45/SFP)	-	4
PoE Function		
Number of PoE Port	4	8
Max. PoE Output Power /Per Port	Per Port 54VDC, Max. 60W	Per Port 54VDC, Max. 30W
Total PoE Power Budget	240W	240W
IEEE 802.3af/at	Supported	Supported
Power Pin Assignment	15.4W/30W PoE: 1/2(+), 3/6(-) 60W UPoE: 1/2(+), 3/6(-),4/5(+), 7/8(-)	1/2(+), 3/6(-)
PoE PD Auto Detection	Supported	Supported
Surge Protection/Each PoE port	6 KV	6 KV
Surge Protection for AC Power	40 KV	40 KV
Ethernet Performance		
Switching Capacity	16 Gbps	24 Gbps
Mac Table	8 K	8 K
Jumbo Frame	9216 bytes	9216 bytes
Auto-MDI/MDI-X, Auto-Negotiation	Supported	Supported
Power Specifications		
Power Input Voltage	100VAC ~ 240VAC	100VAC ~ 240VAC
Alarm Relay	24VDC	24VDC
General		
Waterproof Rating	IP67	IP67
Vandal Proof	IK10	IK10
Surge Protection /Each PoE Port	6KV	6KV
Surge Protection for AC Power	40KV	40KV
Operating Temperature	-40°C ~ 65°C (-40°F ~ 149°F)	-40°C ~ 65°C (-40°F ~ 149°F)
Storage Temperature	-40°C ~ 75°C (-40°F ~ 167°F)	-40°C ~ 75°C (-40°F ~ 167°F)
Dimensions	316 (W) x 246 (H) x 118 (D) mm	316 (W) x 246 (H) x 118 (D) mm
Weight	4.52 kg	4.52 kg
Connectors	M16 x 4, M25 x 2	M16 x 4, M25 x 2

Type	VivoCam L2+ Managed PoE Switch	
Model Name	AW-GEV-107A-130	AW-GEV-267A-370
Short Highlight	8xGE PoE + 2xGE Combo + 1xRJ45 Console	24xGE PoE + 2xGE Combo + 1xRJ45 Console
Ethernet		
10M/100M/1G RJ45 PoE Port	8/Per Port up to 30W	24/Per Port up to 30W
1G Combo Port (RJ45/SFP)	2	2
RJ45 Console Port	1	1
Ethernet Performance		
Backplane	20 Gbps	52 Gbps
Forwarding Capacity	14.88 Mpps	38.68 Mpps
MAC Address	8K	8K
Jumbo Frames	9216 Bytes	9216 Bytes
PoE Function		
Number of PoE Port	8	24
PoE Output Power	Per Port 54VDC, Max. 30W	Per Port 54VDC, Max. 30W
Total PoE Power Budget	130W	370W
Power Pin Assignment	1/2(+), 3/6(-)	1/2(+), 3/6(-)
PoE Management : PoE Config/Alive Checking/Scheduling/Power Delay	Supported	Supported
IEEE 802.3at/af Power over Ethernet	Supported	Supported
Managing IP Surveillance Management		
Auto Search VIVOTEK Device	Supported	Supported
Surveillance Management List	Supported	Supported
Easy Tag VLAN in Topology View	Supported	Supported
Managing IP Surveillance Graphic View		
Topology View	Supported	Supported
Floor View	Supported	Supported
Google Map View	Supported	Supported
Managing IP Surveillance Maintenance		
VIVOTEK Camera Batch SW Upgrade	Supported	Supported
VIVOTEK Camera Configuration File Export/ Import	Supported	Supported
Traffic Monitoring	Supported	Supported
L2 Switching Feature		
IEEE 802.1p Quality of Service	Supported	Supported
IEEE 802.1q Tag based VLAN	Supported	Supported
IEEE 802.1d/w/S STP/RSTP/MSTP	Supported	Supported
IEEE 802.3ad Link Aggregation Control Protocol	Supported	Supported
IEEE 802.1X Authorization	Supported	Supported
L3 Switching Feature		
IP Host Table	Supported	Supported
Static Route (IPv4/IPv6)	Supported	Supported
Static ARP	Supported	Supported
DHCP Server	Supported	Supported
General		
Power Input	100~240V AC / 50~60Hz	100~240V AC / 50~60Hz
Surge Protection	Per port 6KV	Per port 6KV
Dimensions	220 (L) x 243 (W) x 44 (H) mm	442 (L) x 211 (W) x 44 (H) mm
Operating Temperature	0°C ~ 50°C (32°F ~ 122°F)	0°C ~ 50°C (32°F ~ 122°F)

VivoCam Web Smart Managed PoE Switch				10G L2+ Managed Switch	Unmanaged FE PoE Switch	
Model	AW-GEV-104B-130	AW-GEV-184B-250	AW-GEV-264B-370	AW-GTS-287A	AW-FET-060C-065	AW-FET-100C-120
Description	8xGE PoE + 2xGE SFP Web Smart PoE Switch /Per Port Max. 30W, Power Budget 130W	16xGE PoE + 2xGE SFP Web Smart PoE Switch /Per Port Max. 30W, Power Budget 250W	24xGE PoE + 2xGE SFP Web Smart PoE Switch /Per Port Max. 30W, Power Budget 370W	20xGE SFP + 4xCombo GE + 4x10G SFP	4xFE PoE + 2xFE UTP Switch /Per Port Max. 30W, Power Budget 60W	8xFE PoE + 2xFE UTP Switch /Per Port Max. 30W, Power Budget 120W

Unmanaged FE PoE Switch					Unmanaged GE PoE Switch	
Model	AW-FGT-100B-120	AW-FGT-100C-120	AW-FGT-180C-250	AW-FGT-260C-380	AW-GET-050A-065	AW-GET-080A-120
Description	8xFE PoE + 2xGE UTP Switch /Per Port Max. 30W, Power Budget 115W	8xFE PoE + 1xGE UTP + 1xGE SFP Switch /Per Port Max. 30W, Power Budget 120W	16xFE PoE + 2xGE Combo Switch / Per Port Max. 30W, Power Budget 240W	24xFE PoE + 2xGE Combo Switch / Per Port Max. 30W, Power Budget 370W	4xGE PoE + 1xGE Switch /Per Port Max. 30W, Power Budget 60W	8xGE PoE Switch /Per Port Max. 30W, Power Budget 115W

Unmanaged GE PoE Switch				PoE Injector	
Model	AW-GEU-080A-250	AW-GET-100A-120	AW-GET-180A-250	AW-GET-260A-380	AP-FIC-010A-015	AP-GIC-010A-030
Description	2xGE 60W UPoE + 4xGE PoE 30W + 2xGE Switch, Power Budget 240W	8xGE PoE + 2xGE SFP Switch /Per Port Max. 30W, Power Budget 115W	16xGE PoE + 2xGE SFP Switch /Per Port Max. 30W, Power Budget 240W	24xGE PoE + 2xGE SFP Switch /Per Port Max. 30W, Power Budget 370W	Indoor 1xFE IEEE 802.3af 15.4W PoE Injector	Indoor 1xGE IEEE 802.3at 30W PoE Injector

PoE Injector			PoE Extender		
Model	AP-GIC-011A-060	AP-GIC-011A-095	AP-GIC-015B-095	AP-FXC-0110	AP-FXC-0210	AP-FXC-0400
Description	Indoor 1xGE 60W High Power UPoE Injector	Indoor 1xGE 95W High Power PoH/ PoE Injector	Outdoor 1xGE 95W High Power PoH/PoE Injector, IP67, IK10	Indoor 1-Port FE PoE Extender 30W/60W/95W	Indoor 2-Port FE PoE Extender 30W/60W/95W	Indoor 4-Port FE PoE Extender 30W/60W

PoE Extender		Industrial Unmanaged PoE Switch			
Model	AP-FXC-0160	AP-FXC-0260	AW-IHT-0200	AW-IHU-0200	AW-IHH-0200	AW-IHT-0500
Description	Outdoor 1-Port FE PoE Extender 30W/60W/95W, IP67, IK10	Outdoor 2-Port FE PoE Extender 30W/60W/95W, IP67, IK10	Industrial 1xGE PoE + 1xGE SFP Switch /Per Port Max. 30W, Power Budget 30W	Industrial 1xGE 60W UPoE + 1xGE SFP Switch /Per Port Max. 60W, Power Budget 60W	Industrial 1xGE 95W PoH/PoE + 1xGE SFP Switch /Per Port Max. 95W, Power Budget 95W	Industrial 4xFE PoE + 1xFE Switch /Per Port Max. 30W, Power Budget 120W

Industrial Unmanaged PoE Switch					Industrial PoE Injector	
Model	AW-IHT-0600	AW-IHT-0601	AW-IHT-0602	AW-IHU-0600	AW-IHT-0100	AW-IHU-0100
Description	Industrial 4xGE PoE + 1xGE Combo + 1xGE SFP Switch /Per Port Max. 30W, Power Budget 120W	Industrial 4xGE PoE + 1xGE Combo + 1xGE SFP Switch /Per Port Max. 30W, Power Budget: 24VDC ~ 56VDC: 120W, 12VDC: 65W	Industrial EN50155 4xFE M12 PoE + 2xFE M12 Switch /Per Port Max. 30W, Power Budget 120W	Industrial 4xGE 60W UPoE + 2xGE SFP Switch /Per Port Max. 60W, Power Budget 240W	Industrial 1xGE 30W PoE Injector	Industrial 1xGE 60W UPoE Injector

Industrial PoE Injector	Industrial Media Converter		Outdoor PoE Surge Protector
Model	AW-IHH-0100	AW-IHS-0202	AW-IHS-0203	AP-PSP-050
Description	Industrial 1xGE 95W PoH/PoE Injector	Industrial 1xFE + 1xFE SFP Media Converter	Industrial 1xGE + 1xGE SFP Media Converter	Outdoor PoE Surge Protector 16KV/IP67/IK10

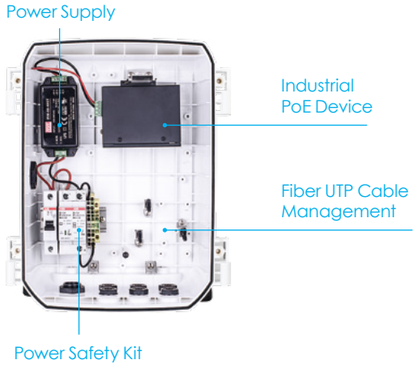
Cabinet

Cabinet			Cabinet Accessories			
Model Name	AT-CAB-001	AT-CAS-001	AT-CAB-002	AT-SUN-001	AT-SUN-002	AT-SWH-000
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	Power Safety Kit

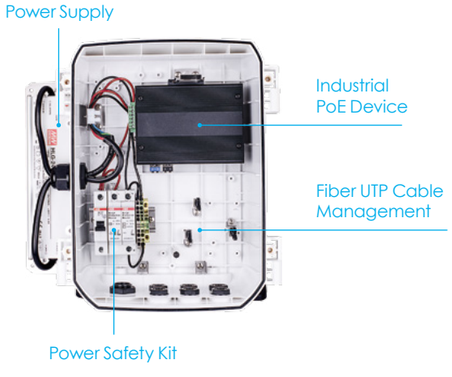
Cabinet Accessories						
Model Name	AT-SWH-002	AT-PSP-001	AT-WPC-001	AT-WPC-002	AM-311	AM-411
Description	Door open/close detection switch	PoE Surge Protector	M16 CABLE GLAND for 4~7mm AWG	M16 CABLE GLAND for Corrugated Tubing: 5/16"	Pole monut adapter	Corner monut adapter

AT-CAB-001

AT-CAS-001



AT-CAB-001/AT-CAS-001



AT-CAB-001/AT-CAS-001+AT-CAB-002

PoE Accessories

Industrial Power Supply						
Model Name	MDR-10-12	NDR-75-24	NDR-75-48	NDR-120-48	NDR-240-48	HLG-80H-24
Description	Indoor Industrial Din Rail Power Supply, 12VDC/10W, -20°C ~ 70°C	Indoor Industrial Din Rail Power Supply, 24~28VDC/75W, -20°C ~ 70°C	Indoor Industrial Din Rail Power Supply, 48~55VDC/75W, -20°C ~ 70°C	Indoor Industrial Din Rail Power Supply, 48~55VDC/120W, -20°C ~ 70°C	Indoor Industrial Din Rail Power Supply, 48~55VDC/240W, -20°C ~ 70°C	Outdoor Industrial Power Supply, 24VDC/80W, -40°C ~ 70°C, IP67

Industrial Power Supply				Outdoor Power Box		SFP Transceiver
Model Name	HLG-120H-48	HLG-120H-54	HLG-240H-54	AA-351	AA-352	SFP-1000-MM85-X5
Description	Outdoor Industrial Power Supply, 48VDC/120W, -40°C ~ 70°C, IP67	Outdoor Industrial Power Supply, 54VDC/120W, -40°C ~ 70°C, IP67	Outdoor Industrial Power Supply, 54VDC/240W, -40°C ~ 70°C, IP67	Outdoor IP67, IK10, 24VAC/6A, -40°C ~ 60°C	Outdoor IP67, IK10, 24VAC/6A, -40°C ~ 60°C	1.25G Multi-Mode SFP, 850nm, 0.5KM, 0°C ~ 70°C

SFP Transceiver				SFP Transceiver	
Model Name	SFP-1000-MM13-02	SFP-1000-SM13-10	SFP-1000-SM13-40	SFP-1000-MM85-X5I	SFP-1000-MM13-02I	SFP-1000-SM13-10I
Description	1.25G Multi-Mode SFP,LC, 1310nm, 2KM, 0°C ~ 70°C	1.25G Single-Mode SFP, LC, 1310nm, 10KM, 0°C ~ 70°C	1.25G Single-Mode SFP, LC, 1310nm, 40KM, 0°C ~ 70°C	Industrial 1.25G Multi-Mode SFP, LC, 850nm, 0.5KM, -40°C ~ 85°C	Industrial 1.25G Multi-Mode SFP, LC, 1310nm, 2KM, -40°C ~ 85°C	Industrial 1.25G Single-Mode SFP, LC, 1310nm, 10KM, -40°C ~ 85°C

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

Mounting Kits

Model Name	AM-105	AM-107	AM-114	AM-118	AM-116/AM-117	AM-212
Description	Recessed kit (Fixed dome)	Recessed kit (SD9161-H)	Pendant head (Water proof)	Pendant head	Pendant Pipe (20/40 cm)	Wall mount bracket

Mounting Kits

Model Name	AM-218	AM-21A	AM-21B	AM-21C	AM-220	AM-221
Description	Wall mount bracket	L shape bracket	L shape bracket	Wall mount bracket (Indoor speed dome)	Wall mount bracket (Outdoor speed dome)	Gooseneck bracket

Mounting Kits

Model Name	AM-231	AM-312	AM-314	AM-313	AM-315	AM-412
Description	Parapet mount bracket	Pole mount adapter	Pole mount adapter	Pole mount adapter	Pole mount adapter	Corner mount adapter

Mounting Kits

Model Name	AM-414	AM-514	AM-51C	AM-51D	AM-51E	AM-523
Description	Corner mount adapter	Adapter plate	Adapter plate	Adapting plate (4" square electrical box)	Adapting plate (90° rotation)	Adapting plate (4" square electrical box)

Mounting Kits

Model Name	AM-526	AM-519	AM-520	AM-522	AM-525	AM-527
Description	Pendant mount adapter (3/4" NPT)	1.5" NPT adapter	Mounting adapter (3/4" NPT F and 1.5" PS11 M)	Mounting adapter (3/4" NPT M and 1.5" PS11 M)	Mounting adapter (3/4" NPT F and 1.5" PS11 M)	Mounting adapter (3/4" NPT F and 1.5" PS11 M)

Mounting Kits

Model Name	AM-528	AM-529	AM-52A	AM6101	AM6102	AM-611
Description	Mounting adapter for outdoor dome (3/4" NPT F and 1.5" PS11 M)	Mounting adapter for speed dome (SD936x)	Mounting adapter for speed dome (SD916-H)	Wall Mount Kit for VS8401/VS8801	Rack Mount Kit for VS8401/VS8801	Rack mount fixed bracket for NVR

Mounting Kits

Model Name	AM-612	AM-712	AM-713	AM-714	AM-717	AM-718
Description	Rack mount rails for NVR	Conduit box	Conduit box (Water-proof)	Junction box (Bullet)	Junction box	Junction box

Enclosures

Model Name	AE-238	AE-239	AE-243	AE-244	AE-23A	AE-23B
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	Supreme series enclosure, wiper, optional VAIR illuminator, 24VAC/28VDC input, IP66, IK10

Enclosures					IR Illuminators for AE-23x Enclosures	
Model Name	AE-23C	AE-23D	AE-23E	AE-23F	AI-106	AI-108
Description	Supreme series enclosure, cold start heater, optional VAIR illuminator, 24VAC/28VDC input, IP68, IK10	Supreme series enclosure, wiper, cold start heater, optional VAIR illuminator, 24VAC/28VDC input, IP66, IK10	Supreme series enclosure, optional VAIR illuminator, PoE input, IP68, IK10	Supreme series enclosure, wiper, optional VAIR illuminator, PoE input, IP66, IK10	VAIR illuminator 6W for Supreme series enclosure , adjustable beam angle 10°~40°, 25~100M, -40 °C~50 °C	VAIR illuminator 24W for Supreme series enclosure, adjustable beam angle 10°~30°, 80~160M, -40 °C~50 °C

IR Illuminators for AE-23x Enclosures	Enclosures					
Model Name	AI-109	AC-215	AC-221	AC-227	AC-228	AC-229
Description	VAIR illuminator 48W for Supreme series enclosure, adjustable beam angle 10°~30°, 120~250M, -40 °C~50 °C	Smoked cover (Indoor speed dome)	Smoked cover for FD8166A, FD8166A-N	Transparent cover for CU8131, FD816C(A)-HF2	Transparent cover for CU8171, FE8182	IK10 Transparent cover for recessed-mount cameras

CaMate IR Illuminators						
Model Name	CM48 Series	CM80 Series	CA80 Series	AM-219	CMA-B01	CMA-B03
Description	48W, 24 pcs IR LED, 850nm, 10°~180° Adjustable beam angle	80W, 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	L Bracket	U Bracket

CaMate IR Illuminators						Lenses
Model Name	CMA-B04	CMA-B05	CMA-B06	CMA-A01	CMA-E01	AL-232
Description	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	Remote control	CS mount, 3.1~8mm, F1.2, DC-Iris, 1/2.7"

Lenses						
Model Name	AL-237	AL-238	AL-239	AL-242	AL-243	AL-246
Description	CS mount, 4.1~9mm, F1.6, DC-iris, 1/1.8"	CS mount, 5~50mm, F1.6, DC-iris, 1/2.7"	C mount, 8~80mm, F1.6, DC-iris, 1/2"	CS mount, 12.5~50mm, F1.4, P-iris, 1/2.7"	CS mount, 7~22mm, F1.4, P-iris, 1/2.7"	CS mount, 2.8~8.5mm, F1.2, P-iris, 1/2.7"

Lenses						Power Adapters
Model Name	AL-247	AL-248	AL-249	AL-24A	AL-24B	AA-221
Description	CS mount, 2.8~8mm, F1.2, P-iris, 1/3"	CS mount, 12~50mm, F1.8, P-iris, 1/1.7"	CS mount, 2.8~12mm, F1.4, P-iris, 1/2.7"	CS mount, 12~40mm, F2.3, P-iris, 1/1.8"	CS mount, 3.6~17mm, F1.5, P-iris, 1/1.8"	DC 12V 1.5A power adapter

Power Adapters		Network Accessories	Joystick		Cable
Model Name	AA-231	AA-341	AN3000	AJ-001	AJ-002	AO-002
Description	DC 12V 2.5A power adapter	AC 24V 3.5A power adapter	Outdoor Ethernet waterproof connector	8-key USB Joystick	29-Key USB JoyStick	RJ45 to M12 (4-pin) water-proof Cable (1 meter)

Cable					Storage
Model Name	AO-003	AO-004	AO-005	AO-006	AO-007	SR-64VMA/T1
Description	I/O Cable for speed dome (SD9161-H, SD9361/2/3/4-EH(L))	M12 (D Code 4-Pin Male) to RJ45 Cable (60cm)	FD8366-V Power Cable with DI	IO Cable for MA8391-ETV	Combo cable for speed dome (SD9365/6-EH(L))	Sony 64GB SD Card (Individual Pack w/ SD Card Adapter)

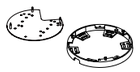
Mounting Installation

Indoor		Fixed Dome / 360° Cameras					
Application	Model	FD8166A Series	FD8366-V	FD816BA Series FD8182 Series FD9165(67)-(H)T FD9171(81)-HT	FD8167A FD8169A FD8177-H FD8179-H	FE8174 FE9181-H FE9191	FE8181 FE8191 FE9182-H
Ceiling Mount	 AM-105			●			
L-Shape Wall Mount	 AM-21A			●	●		
	 AM-21B	●					
Adapter Plate	 AM-514			●		●	
	 AM-51C						●
	 AM-51D				●		
	 AM-51E	●	●				
Mounting Adapter/ Conduit Box	 AM-520					●	●

Mounting Installation

Indoor		Fixed Dome / 360° Cameras					
Application	Model	FD8166A Series	FD8366-V	FD816BA Series FD8182 Series FD9165(67)-(H)T FD9171(81)-HT	FD8167A FD8169A FD8177-H FD8179-H	FE8174 FE9181-H FE9191	FE8181 FE8191 FE9182-H
Mounting Adapter/ Conduit Box	 AM-527			●			
	 AM-528				●		
	 AM-712 + AM-522	●		●			
Pendant Mount*	 AM-116/117 + AM-118 =						
Wall Mount*	1 AM-212 or AM-221 + AM-718 (Optional) =						
	2 AM-218 + AM-714 (Optional) =						

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

Outdoor	Fixed Dome / 360° Cameras		
Application	Model	FD836BA Series FD8382 Series FD9365(67) Series FD9371(81) Series MS8392-EV	FD8367A-V FD8369A-V FD8377-HV FD8379-HV	FE8174V FE8181V FE8391-V FE9381(82)-EHV FE9391-EV
L-Shape Wall Mount	AM-21A	•	•	
Adapter Plate	AM-51C	•		
	AM-51D		•	
	 Inbox Plate			•
Mounting Adapter/ Conduit Box	AM-520			•
	AM-525	•		
	AM-528		•	
	AM-712 + AM-522	•		

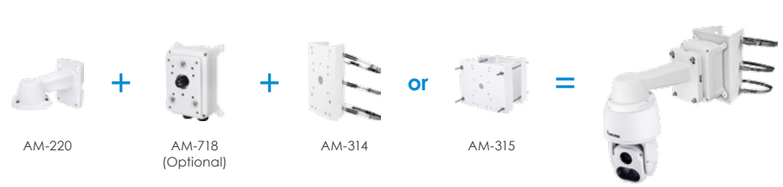
Outdoor	Fixed Dome / 360° Cameras		
Application	Model	FD836BA Series FD8382 Series FD9365(67) Series FD9371(81) Series MS8392-EV	FD8367A-V FD8369A-V FD8377-HV FD8379-HV	FE8174V FE8181V FE8391-V FE9381(82)-EHV FE9391-EV
Pendant Mount*	AM-116/117 + AM-114 =			
Wall Mount*	1 AM-212 or AM-221 + AM-718 (Optional) + AM-314 or AM-315 =			
	2 AM-218 + AM-714 (Optional) =			
Pole Mount*	1 AM-212 or AM-221 + AM-718 (Optional) + AM-314 or AM-315 =			
	2 AM-218 + AM-714 (Optional) + AM-312 =			

* 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.

Mounting Installation

Outdoor	PTZ Cameras		
Application	**Model**	SD9361-EHL SD9362-EHL(L)	SD9363-EHL SD9364-EH(L)	SD9365-EHL SD9366-EH(L)
Wall Mount Bracket	 AM-220	•	•	•
Mounting Adapter	 AM-529	•	•	•
Cabinet	 AM-220 + AT-CAS-001 =			
Pendant Mount	 AM-529 + AM-116/117 + AM-114 =			
Wall Mount	❶ AM-220 + AM-718 (Optional) =			
	❷ AM-529 + AM-212 or AM-221 + AM-718 (Optional) =			

Mounting Installation

Outdoor	PTZ Cameras		
Application	**Model**	SD9361-EHL SD9362-EH(L)	SD9363-EHL SD9364-EH(L)	SD9365-EHL SD9366-EH(L)
Pole Mount	❶  AM-220 + AM-718 (Optional) + AM-314 or AM-315 =			
	❷ AM-529 + AM-212 or AM-221 + AM-718 (Optional) + AM-314 or AM-315 =			
Corner Mount	❶ AM-220 + AM-718 (Optional) + AM-414 =			
	❷ AM-529 + AM-212 or AM-221 + AM-718 (Optional) + AM-414 =			
Parapet Mount	 AM-529 + AM-231 =			

Mounting Installation

Indoor	PTZ Camera	Multi-adjustable Views Camera

Application	Model	SD9161-H	MA8391-ETV
Ceiling Mount	AM-107	•	
Wall Mount Bracket	AM-21C	•	•
Mounting Adapter	AM-529		•
	AM-52A	•	•
Pendant Mount	AM-52A or AM-529 + AM-116/117 + AM-114 =		
Wall Mount	1 AM-21C + AM-718 (Optional) =		
	2 AM-52A or AM-529 + AM-212 or AM-221 + AM-718 (Optional) =		

Mounting Installation

Indoor	PTZ Camera	Multi-adjustable Views Camera

Application	Model	SD9161-H	MA8391-ETV
Pole Mount	1 AM-21C + AM-718 (Optional) + AM-314 or AM-315 =		
	2 AM-52A or AM-529 + AM-212 or AM-221 + AM-718 (Optional) + AM-314 or AM-315 =		
Corner Mount	1 AM-21C + AM-718 (Optional) + AM-414 =		
	2 AM-52A or AM-529 + AM-212 or AM-221 + AM-718 (Optional) + AM-414 =		
Parapet Mount	AM-52A or AM-529 + AM-231 =		

Mounting Installation

Outdoor		Bullet Cameras			180° Cameras
Application	Model	IB836BA Series IB8382 Series IB9365(67) Series IB9371(81) Series	IB8367A IB8369A IB8377-H IB8379-H	IZ9361-EH	MS8391-EV
Pole Mount Adapter	 AM-312	•	•		•
	 AM-313			•	
Corner Mount Adapter	 AM-412	•	•		•
Adapter Plate	 AM-523		•		
Junction Box	 AM-714	•			
	 AM-717			•	

* IB8367A, IB8369A, IB8377-H, IB8379-H are only compatible with AM-312/AM-412 v2 version.

VIVOTEK 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.

VAST 2

View, Search, Control, Integrate

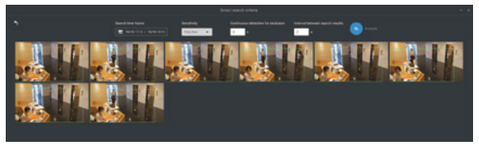
VIVOTEK VAST 2 is an easy to use IP video management software (VMS) designed for medium-scale deployments. It features exciting advancements such as easy operation on single or multiple monitors, a customized layout to fit both corridor and panorama formats, and rapid export of multi-channel video. VAST 2 also supports automatic configuration wizards, which significantly reduce the time and costs associated with installing surveillance systems involving many cameras. It also provides multi-layered, interactive maps and sophisticated alarm management. With the data magnet feature, VAST 2 can receive and store data from 3rd party devices, such as access control, logistic barcode systems, POS transaction details, and license plate recognition results. This array of features makes VAST 2 perfect for retail, banks, restaurants and more.

Data Magnet

By integrating 3rd party devices users can send data like LPR recognition results, POS transactions and access control lists to VAST 2, and display them simultaneously with live event monitoring. All events will be kept for later searches.

Smart Search

Users can have the best search results from lengthy recorded scenes or near scenes via VAST 2's high efficiency algorithm.



Backup & Recovery

Keep your data safe with scheduled backup recordings. This failover feature allows users to stably operate work stations even when the connection is broken.

VAST

Professional VMS/CMS for Large Scale Operations

VIVOTEK VAST is a professional video/central management software (VMS/CMS) designed for large-scale deployments. It supports hundreds of cameras and stations in a hierarchical system structure enabling monitoring, recording, playback, event and alarm management. With VAST Matrix, users can easily achieve a video-wall application. VAST harnesses the power of VIVOTEK IP cameras to provide diverse solutions with functions such as Seamless Recording, Panoramic PTZ, system redundancy and VCA metadata Integration, making VAST ideal for retail, residential and industrial use.

Data Always Protected

Ensures the recording of video streaming into the system and guarantees that important information is always available.

Easily Integrate AD

Integrate Windows active directory and surveillance systems to save time when configuring each surveillance system.

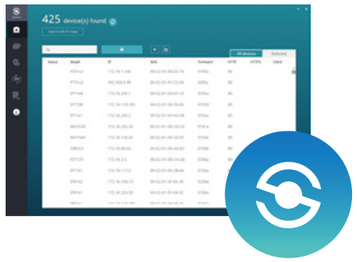
Smart Alarm Management

Easy configuration of alarm system and intuitive check of historical alarms by report.

Application Software

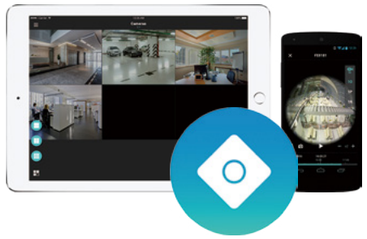
Shepherd

Shepherd, embedded with device management functions, can easily set up multiple cameras at once. The software automatically brings up a list of all VIVOTEK devices that are connected on the network and user can manually group the cameras to apply pre-configured settings. The Shepherd supports various powerful functions, including group setting management, IP address assignment, remote reboot/restore, import/export camera settings, firmware and VADP package upgrade, exporting the server status report to track the issue. It greatly benefits system integrators and installers who often have projects that need to set up multiple cameras with the same settings at once.



iViewer

iViewer is a streaming mobile app with an easy to use interface which allows users to monitor live video from hundreds of cameras managed by a VAST, VIVOTEK NVR, or make direct connections to individual cameras. The iViewer also provides the power to add devices via IP address or IP finder, and allows for device management, two way audio, PTZ and preset control, digital zoom, fisheye dewarp, snapshot, view panoramic stream and the capability to playback recorded video from any VIVOTEK VAST, NVR, or directly play from camera's SD card with supported models.



Software

Design Tool

IPVS Design Tool

VIVOTEK has integrated with JVSG (IP Video System Design Tool) to make the design of professional video surveillance systems quick and easy. With the IP Video System Design Tool, users can calculate the precise lens focal length and viewing angles of all cameras in seconds, and check the field of view of each camera. This allows discovery of any dead zones and increases the security of your premises through the use of 2D and 3D modeling. This smart tool can also obtain more accurate estimations of network bandwidth, storage and perform many other handy functions to enhance your surveillance system design.

BIMobject ®

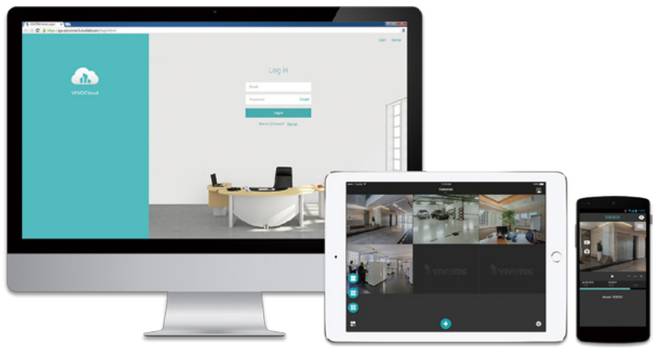
VIVOTEK IP Camera Families are now available in Building Information Modeling (BIM) software BIMobject ®. BIMobject ® is a single software application that supports a BIM workflow from concept to construction. Users of BIMobject ® can now use interactive 3D CAD VIVOTEK camera models directly in their building plans and incorporate VIVOTEK surveillance into their designs. Everything from camera resolution to field of view to mounting options are addressed, ensuring full coverage is obtained through stunning 3D visualization.

VIVOCloud

VIVOCloud is a light-weight cloud surveillance service particularly designs for SMB users. The cross-platform service is built with AWS, can be accessed with iOS and Android device, and, also supports web-based portal on both Windows and MAC. VIVOCloud supports easy connection with VIVOTEK's ND series NVRs and cloud-based IP cameras. Equipped with the share device function just a few simple setup steps will make it extremely easy to scale your system according to changing needs.

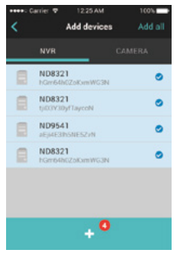
VIVOCloud also supports push notifications from cameras or NVRs alarms, and users can also manually check recording clips remotely. VIVOCloud service was fully tested by a third-party security firm in accordance with the OWASP Testing Guide, and is guaranteed to provide robust security across a range of applications.

Web Portal at https://service.vivocloud.com/



Easy Setup, Quick Start

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



Cloud Service

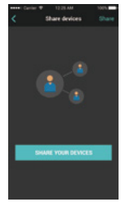
Easy Access with Cross Platform

Along with Android and iOS app, VIVOCloud supports various web browsers including Internet Explorer 11, Firefox and Google Chrome, both on Windows and MAC.

*Web portal currently supports ND-series NVR only. Camera supports will be coming soon.

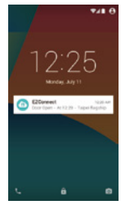
Scale Your Visions with Shared Devices

With the features of expandable network with up to 16 devices and shared each device to up to 4 VIVOCloud accounts, it allows your family members, friends or business colleagues to monitor security.



Get Alerts, Directly Playback Events

Once you setup your device alarm, VIVOCloud service will notify you by push notification when suspicious events occur and take you to the video playback of event trigger time.



Connect Comprehensive IP Devices

Supports a wide-range of VIVOTEK devices to perfectly match your business scenarios.

See More in Smarter Ways

VIVOTEK is firmly committed to the continued development of outstanding network cameras featuring a range of megapixel resolutions, camera dimensions, advanced technologies and value-added video analytic functions in order to satisfy the needs of a diverse range of applications. "See more in smarter ways" allows users to truly achieve unobstructed monitoring of wide, open areas such as airport terminals, shopping malls, retail stores, train stations, offices, and more.

180° 180° Solution | Wider Coverage, Better Details

Supreme Video Alignment for Panoramic 180° Views

Specially equipped with a video alignment feature, MS series camera allows users to optimize the image quality of each sensor and experience both natural and optimal continuous panoramic views.

180° IR Uniformity

With the use of Smart IR technology to prevent overexposure and reduce noise, IR lighting intensity instantly adjusted based on the changes of light in the ambient environment.

Recommended Products

CC8371-HV

- 30 fps @ 2048x1536
- 180° 15M IR
- WDR Pro

MS9390-HV

- 30 fps @ 4512x1728
- 180° 20M IR
- WDR Pro

MS8391-EV

- 12MP Resolution
- 7 fps @ 7552x1416
- 180° 30M IR
- -50°C ~ 60°C

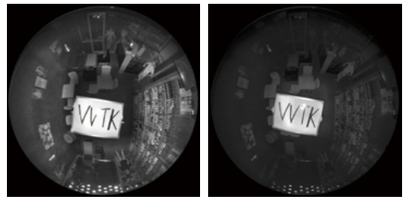
360° 360° Solution | One Camera, Maximum Coverage

360° Surround View with Various Dewarp Modes

A fisheye lens creates a distorted view of a scene that, once dewarped, provides a powerful surveillance tool that can provide more expansive coverage than a conventional lens. With the various display mode options (1O, 1P, 1R, 2P, 4R, 4R PRO, 1O3R, 1O8R), users can monitor any scene as they deem fit.

360° IR Uniformity

Improve low lux performance by adding built-in IR illuminators and adopting Smart IR II technology - Adaptive IR so that the camera is able to record useful image even in challenging low light condition.



IR On IR Off

Intelligent VCA - Security Intelligence

Run intelligent video content analysis (VCA) inside the smart-edge devices to provide intelligent data for business operations.

Recommended Products

FE9191

- 12MP CMOS Sensor
- 360° Panomorph View
- 20 fps @ 2816x2816
- Intelligent VCA

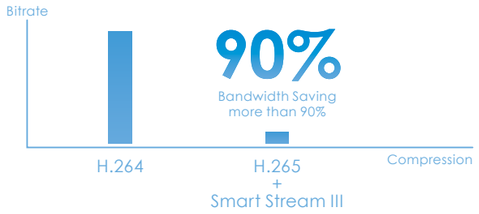
FE9391-EV

- 12MP CMOS Sensor
- 360° Panomorph View
- 20 fps @ 2816x2816
- 360° 20M IR
- Smart IR II
- Intelligent VCA
- IP66, IK10, EN50155

See More in Smarter Ways

Smart Stream III | Maximize Video Quality with Ultra-Low Bandwidth

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.



Combining both H.265 and VIVOTEK Smart Stream III, the camera can reduce bandwidth and storage consumption more than 90%* compared to traditional H.264 without smart streaming.

* depending on scenes

SNV II | High-quality Full-color video under Low-Light Conditions

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.

Without SNV II | With SNV II

Recommended Products

IB9365-HT

- 60 fps @ 1920x1080
- H.265 + Smart Stream III
- SNV II, WDR Pro II
- 50M IR, Smart IR II
- Smart Motion Detection
- Trend Micro IoT Security
- Outdoor-ready

FD9365-(E)HTV

- 60 fps @ 1920x1080
- H.265 + Smart Stream III
- SNV II, WDR Pro II
- 50M IR, Smart IR II
- Smart Motion Detection
- Trend Micro IoT Security
- Outdoor-ready

FD9165-HT

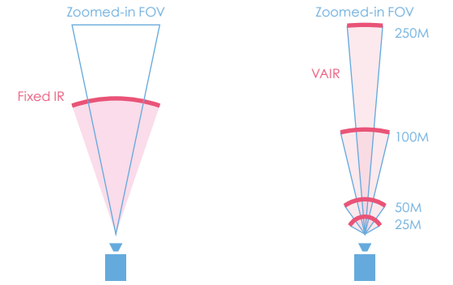
- 60 fps @ 1920x1080
- H.265 + Smart Stream III
- SNV II, WDR Pro II
- 50M IR, Smart IR II
- Smart Motion Detection
- Trend Micro IoT Security

Smart IR II | Highly Uniform, Consistent Brightness and the Clearest Night Views Ever

Vari-Angle IR

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

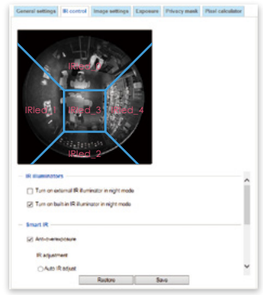
- Effortless IR angle adjustment
- Wide coverage of field of view
- No IR hot-spot issues
- Long-range IR illumination



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



Recommended Products

SD9364-EH/EHL

- 1080p 60 fps
- 30x Zoom
- 250M/150M IR
- Smart IR II
- IP66, IK10, NEMA 4X
- -50°C ~ 55°C

SD9366-EH/EHL

- 1080p 60 fps
- 30x Zoom
- 250M/150M IR
- Smart IR II
- IP66, IK10, NEMA 4X
- -40°C ~ 55°C
- Wiper

FE9391-EV

- 12MP CMOS Sensor
- 360° Panomorph View
- 20 fps @ 2816x2816
- 360° 20M IR
- Smart IR II
- Intelligent VCA
- IP66, IK10, EN50155

See More in Smarter Ways

Intelligent Video Content Analysis

Highly Accurate Video Analytic Functions in Smart-Edge Devices

Business Intelligence

Stereo Counting • 2D Counting • Zone Counting • Heat Map • Queue Management

VIVOTEK's business intelligence provides the most efficient tools for marketing analysis and highly accurate data to generate invaluable statistics for SMB owners. Aware of the number of potential customers and detailed information from traffic data, users can leverage such knowledge to enhance business management.

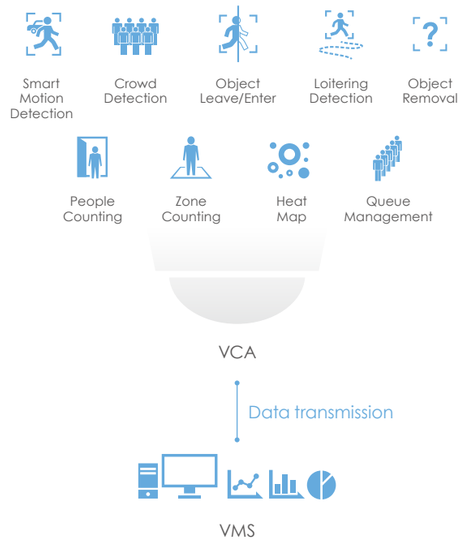
Security Intelligence

Smart Motion Detection• Crowd Detection • Object Leave/Enter • Loitering Detection • Object Removal

VIVOTEK's security intelligence enables not only the monitoring of facilities and properties, but also the regulation of activities of objects in designated access areas and the management of waiting time of customers and other key business variables. With advanced functionalities, users can protect security and customize their business while gaining the necessary data to optimize operations.

Features

- Video Surveillance and Business Intelligence on One Single VIVOTEK IP Camera
- High Level of Accuracy
- Real-Time Analytics and Viewing
- Direct Access via Web-Service
- Adaptable Applications
- Easy Configuration
- Embedded Application in Camera



Cyber Security

VIVOTEK's cyber security assurance efforts are built into the lifecycle of its products, including development, verification, manufacturing, delivery and service. We are constantly evaluating and enhancing our cyber security efforts in order to provide our valued customers with the highest quality and most reliable products. By cooperating with the world-renowned cyber security 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.

Vulnerability Protection

Block Brute Force Attacks

When the system detects brute-force attacks based on a defined number of failed login attempts, it will automatically activate a defense mechanism to block that IP address and prevent further attacks.

Intrusion Detection and Prevention

After shutting down if any malware or abnormal behavior is detected, any attempt to control the console, access controversial websites, or any intrusion behavior will be automatically secured by the offense mechanism.

Instant Damage Control

If an unknown attack occurs, the system will remotely patch all data and transfer it to the anti-virus team to analyze and solve it within 24 hours, effectively decreasing the spread of virus' and internal infections, letting users get back to work safely and quickly.

VivoCam PoE Switch

See More in Smarter Ways

Outdoor VivoCam L2+ Managed PoE Switch

The World's First Outdoor L2+ Managed PoE Switch with IP Surveillance Management Functions

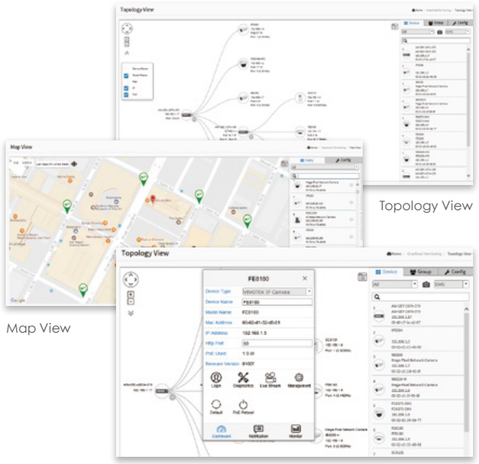
VIVOTEK's outdoor VivoCam L2+ series is a Layer 2 plus managed PoE switch with IP surveillance management functions. It comes outdoor-ready with waterproof IP67 and Vandal proof IK10 rated housing and PoE surge protection for each port of up to 6KV and AC power surge protection of up to 40KV. The All-in-One device is simple to install in any outdoor environment.

The switch is not only a standard Layer 2 plus managed PoE switch, but is also able to set up and configure VIVOTEK IP cameras, Video servers and allows users to find all VIVOTEK devices and automatically deploy a complex surveillance network topology.

Plug-n-Play Installation with All in One Device

VIVOTEK Outdoor PoE Switch
(IP67, IK10)

Intuitively Managing IP Surveillance



Device Management

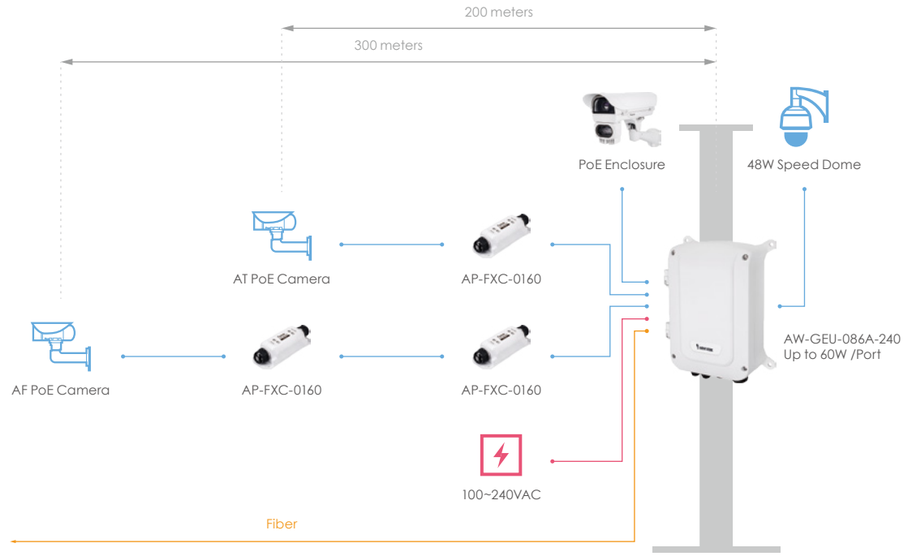
Managing IP Surveillance

- Auto Generated Surveillance Topology View
- Easy Tag VLAN Configuration In Topology View
- Smart Device-Management In Topology View
- PoE On/Off Control In Topology View
- Display IP Camera Live Stream in Topology View, Floor View and Google Map View
- Batch Camera/Video Server F/W Upgrade
- Batch Camera Configuration-File Import & Export
- Batch Camera Network/Login Configuration

Managed L2+ PoE Switch

- Supports DHCP Server
- Supports IPv4/IPv6 L3 Static Route
- Supports IEEE802.1Q VLAN(up to 4096), Dobule Tag (Q-in-Q)
- Supports 802.1d (STP), 802.1w (RSTP) and 802.1s (MSTP)
- Supports LACP and Static Link Aggregation
- Supports SNMP v1/v2c/v3 for Management
- Supports HTTPs/SSL/SSHv1&v2 for Secured Connection
- Supports Dual Image for Switch Firmware Backup

Long Range Application



VivoCam PoE Switch

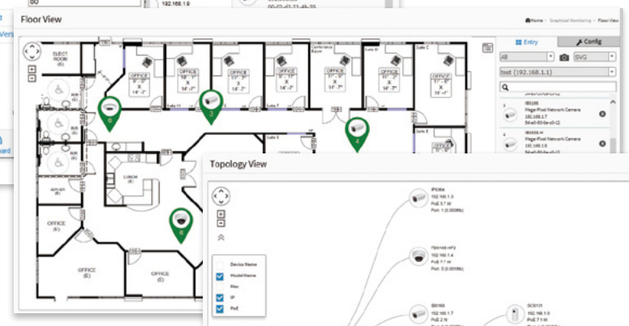
See More in Smarter Ways

VivoCam L2+ Managed PoE Switch

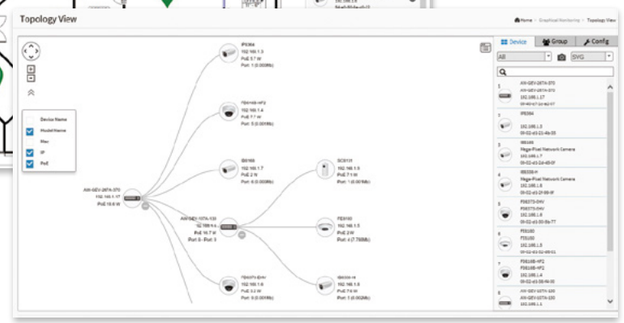
The World's First PoE Switch with IP Surveillance Management Functions -
The New Generation of VivoCam L2+ Series

The VivoCam L2+ series is the Layer 2 Plus managed PoE switch with IP surveillance management functions. This switch is not only a standard Layer 2 Plus managed PoE switch, but also able to set up and configure VIVOTEK IP cameras, video server, NVR and CMS. The VivoCam L2+ series allows users to find all VIVOTEK devices and deploy a surveillance network system automatically.

Device Management



Floor View



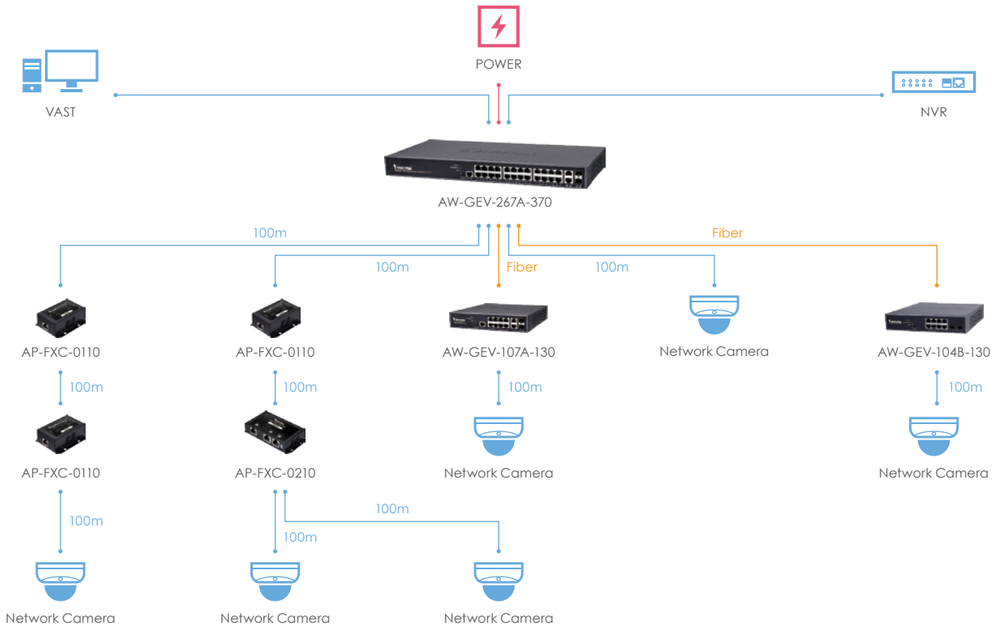
Topology View

Managing IP Surveillance

- The Root VivoCam Will Auto-Sync With All Sub VivoCam Switches
- Auto Discovery and Classification of Network Devices
- Batch Camera/Video Server F/W Upgrade
- Batch Camera Configuration-File Import & Export
- Batch Camera Network/Login Configuration
- Auto Generated Surveillance Topology View
- Easy Tag VLAN Configuration In Topology View
- Smart Device-Management In Topology View
- PoE On/Off Control In Topology View
- Display IP Camera Live Stream in Topology View, Floor View and Google Map View

Managed L2+ PoE Switch

- Supports L2+ Managed Features
- Supports DHCP Server
- Supports IPv4/IPv6 L3 Static Route
- Supports IEEE802.1Q VLAN (up to 4096), Dobule Tag (Q-in-Q)
- Supports IEEE802.1v Protocol VLAN and MAC-based VLAN
- Supports 802.1d (STP), 802.1w (RSTP) and 802.1s (MSTP)
- Supports LACP and Static Link Aggregation
- Supports SNMP v1/v2c/v3 for Management
- Supports HTTPs/SSL/SSHv1&v2 for Secured Connection
- Supports Dual Image for Switch Firmware Backup
- Supports Disgnostics for Connection and Cable Status



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