



Product Brochure

IP Surveillance Solutions



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), Latin America (Mexico) and Japan in 2008, 2013, 2014, 2015, 2016, and 2017, 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.



CONVERGENCE of
Video, VOice and COmmunication TEKnology



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 safeguarding of the world and empowering business enterprises to discover customer insights through its intelligent solutions. In this commitment, VIVOTEK

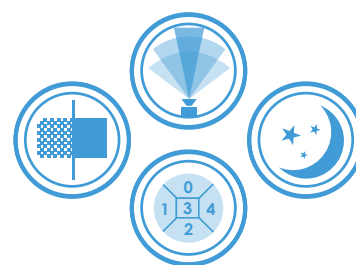
develops smart technology with advanced content analysis and superior product capabilities to stay ahead of the game. In 2019, we are pleased to present the following solutions:



Cybersecurity



Intelligent VCA



Advanced Technology



180° Solution



360° Solution










Multi-Sensor Solution

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Commercial Series			
Industrial Series			
Cabinet			
PoE Accessories			

Network Cameras

Network Cameras




Form Factor	Box Cameras			Box Cameras			
Video Resolution	2 Megapixel			2 Megapixel			
							
Model Name	IP8166	IP9165-HP	IP9165-HT	IP9165-LPC	IP9165-LPC Kit	IP9172-LPC (Freeway)	IP9167-HP
Summary	2MP, 30fps, H.264/MJPEG, SNV*, Smart Stream II	2MP, 60fps, H.265/H.264/MJPEG, P-iris, WDR Pro II, Smart Stream III, SNV II*	2MP, 60fps, H.265/H.264/MJPEG, i-CS*, P-iris, WDR Pro II, Smart Stream III, SNV II*	2MP, 60fps, H.265/H.264/MJPEG, i-CS*, P-iris, WDR Pro II, Smart Stream III, SNV II*	License Plate Capture, Dual Lanes, Anti-Glare, 110MPH (180 km/h), Scene Overview, Remote Back Focus, DIS, i-CS*	License Plate Capture, Dual Lanes, Anti-Glare, 155MPH (250 km/h), Scene Overview, Auto Exposure Bracketing (AEB)	2MP, 30fps, H.265/H.264/MJPEG, WDR Pro, SNV*, Smart Stream III
Sensor Type	1/2.8" Progressive CMOS	1/2" Progressive CMOS	1/2" Progressive CMOS	1/2" Progressive CMOS	1/2" Progressive CMOS	1/1.8" Global Shutter CMOS	1/2.8" Progressive CMOS
Lens Type	Vari-focal	Vari-focal Remote Back Focus	Vari-focal Remote Back Focus i-CS	Vari-focal Remote Back Focus i-CS	Vari-focal Remote Back Focus i-CS	Vari-focal Remote Focus CS-mount	Vari-focal Manual focus CS-mount
F-number	F1.4 ~ F2.4	F1.5 ~ F2.8	F1.5 ~ F2.7	F1.5 [IP9165-LPC (9-50mm)] F1.8 ~ F2.3 [IP9165-LPC (12-40mm)]	F1.5 [IP9165-LPC (9-50mm)] F1.8 ~ F2.3 [IP9165-LPC (12-40mm)]	F1.8 ~ F2.3	-
Focal Length	f = 2.8 ~ 12 mm	f = 3.6 ~ 17 mm	f = 3.9 ~ 10 mm	f = 9 ~ 50 mm [IP9165-LPC (9-50mm)] f = 12 ~ 40 mm [IP9165-LPC (12-40mm)]	f = 9 ~ 50 mm [IP9165-LPC (9-50mm)] f = 12 ~ 40 mm [IP9165-LPC (12-40mm)]	f = 12 ~ 40 mm	-
Field of View	38° ~ 101° (H) 21° ~ 63° (V)	28° ~ 100° (H) 16° ~ 55° (V)	42.7° ~ 110° (H) 23.9° ~ 58.5° (V)	IP9165-LPC (9-50mm): 8.3° ~ 42.8° (H), 4.7° ~ 24.3° (V) IP9165-LPC (12-40mm): 11.6° ~ 34.2° (H), 6.6° ~ 18.7° (V)	IP9165-LPC (9-50mm): 8.3° ~ 42.8° (H), 4.7° ~ 24.3° (V) IP9165-LPC (12-40mm): 11.6° ~ 34.2° (H), 6.6° ~ 18.7° (V)	12.3° ~ 35.8 ° (H) 9.8° ~ 26.3° (V)	-
Auto-iris	DC-iris (P-iris reserved)	P-iris (DC-iris reserved)	i-CS (P-iris/DC-iris reserved)	i-CS [IP9165-LPC (9-50mm)] P-iris [IP9165-LPC (12-40mm)] (DC-iris reserved)	P-iris/i-CS (DC-iris reserved)	P-iris	P-iris (DC-iris reserved)
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR Illuminators	-	-	-	-	External IR Illuminator (CA8018-2040/ CM4818-2040/ AI-109)	External IR Illuminator (CF2418-2040)	-
Min. Illumination	0.08 Lux @ F1.4 (Color) 0.001 Lux @ F1.4 (B/W)	0.01 Lux @ F1.5 (Color) 0.005 Lux @ F1.5 (B/W)	0.01 Lux @ F1.5 (Color) 0.005 Lux @ F1.5 (B/W)	IP9165-LPC (9-50mm): 0.01 Lux @ F1.5 IP9165-LPC (12-40mm): 0.08 Lux @ F1.8	IR Threshold: 300 Lux @ IR On 600 Lux @ IR Off RS485 configurable	IR Threshold: 300 Lux @ IR On 600 Lux @ IR Off RS485 configurable	-
Max. Video Resolution	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	2048x1536 (3MP)	1920x1080 (2MP)
Frames per Second	30 fps@ 1920x1080	60 fps @ 1920x1080	60 fps @ 1920x1080	60 fps @ 1920x1080	60 fps @ 1920x1080	55 fps @ 2048x1536, AEB off 60 fps @ 1920x1080, AEB off 30 fps @ 1920x1080, AEB on	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	3 Streams	3 Streams
WDR Technology*	WDR Enhanced	WDR Pro II	WDR Pro II	WDR Pro II	WDR Pro II	-	WDR Pro
3DNR	Yes	Yes	Yes	Yes	Yes	-	Yes
Cloud Service	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App
Trend Micro IoT Security	Yes	Yes	Yes	Yes	Yes	-	Yes
Power Input	DC 12V AC 24V PoE	DC 12V AC 24V PoE	DC 12V AC 24V PoE	DC 12V AC 24V PoE	DC 24V AC 24V	DC 24V AC 24V	DC 12V PoE
Power Consumption	Max. 6.8 W	Max. 9 W (DC12V) Max. 18 W (AC 24V) Max. 9.06 W (PoE)	Max. 9 W (DC12V) Max. 18 W (AC 24V) Max. 9.06 W (PoE)	Max. 9 W (DC12V) Max. 18 W (AC 24V) Max. 9.06 W (PoE)	Highway Kit (CA8018-2040): Max. 110W, Suggested Power: AC24V or DC24V/5A Street/Street-A Kit (CM4818-2040/AI-109): Max. 78W, Suggested Power: AC24V or DC24V/3.5A	-20°C ~ 60°C (-4°F ~ 140°F): Max. 60W, Suggested Power: AC24V or DC24V/3A -40°C ~ 60°C (-40°F ~ 140°F): Max. 100W, Suggested Power: AC24V or DC24V/5A	Max. 6.5 W
Digital Input / Output	3/1	2/2	2/2	2/2	2/2	2/1	2/2
Audio	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)
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	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	MicroSD/SDHC/SDXC Card Slot
Housing	-	-	-	-	IP68, IK10	IP68, IK10	-
Dimensions	193 (D) x 70 (W) x 61 (H) mm	151 (D) x 70 (W) x 61 (H) mm (w/o lens) 227 (D) x 70 (W) x 61 (H) mm (w/ lens)	151 (D) x 70 (W) x 61 (H) mm (w/o lens) 210 (D) x 70 (W) x 61 (H) mm (w/ lens)	255 (D) x 70 (W) x 64 (H) mm (9-50mm) 203 (D) x 70 (W) x 61 (H) mm (12-40mm)	Street/Highway Kit: 503 (D) x 170 (W) x 400 (H) mm Street-A Kit: 503 (D) x 170 (W) x 365 (H) mm	503 (D) x 170 (W) x 400 (H) mm	151 (D) x 70 (W) x 61 (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)	-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	-20°C ~ 60°C (-4°F ~ 140°F) -40°C ~ 60°C (-40°F ~ 140°F), with cold start heater	-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.
*AEB (Auto Exposure Bracketing): Provides multiple streams with different exposure settings to cover over-exposed and under-exposed scenarios.

*SNV: Supreme Night Visibility, by professionally integrating superior optical components and sophisticated video algorithms, SNV cameras present Supreme Night Visibility in low light conditions.
*i-CS: Intelligent CS-mount lenses can be used for add-on value functions, ex. remote zoom focus control, distortion correction, shading correction, etc.

Network Cameras

Network Cameras


Form Factor	Box Cameras			Box Cameras	Bullet Cameras		
Video Resolution	2 Megapixel	3 Megapixel	5 Megapixel	8 Megapixel	2 Megapixel		
<div><div><div><div>H.265</div><div>SNV</div><div>WDR</div><div>NEW</div></div></div><div><div><div>H.265</div><div>SNV</div><div>WDR</div></div></div><div><div><div>H.265</div><div>SNV</div><div>WDR</div></div></div><div><div><div>H.265</div><div>SNV</div><div>WDR</div><div>NEW</div></div></div><div><div><div>SNV</div></div></div><div><div><div>SNV</div></div></div><div><div><div>H.265</div><div>SNV</div><div>WDR</div></div></div></div>							
Model Name	IP9167-HT	IP9171-HP	IP9181-H	IP9191-HP IP9191-HT	IB8367A	IB8369A	IB9365-HT IB9365-EHT
Summary	2MP, 30fps, H.265/H.264/MJPEG, WDR Pro, SNV*, Smart Stream III	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, 2MP/120fps, H.265/H.264/MJPEG, SNV*, WDR Pro, Smart Stream III, i-CS*	2MP, 30fps, H.264/MJPEG, SNV*	2MP, 30fps, H.264/MJPEG, SNV*	2MP, 60fps, H.265/H.264/MJPEG, P-iris, WDR Pro II, Smart Stream III, SNV II*, Remote Focus, Smart IR II
Sensor Type	1/2.8" Progressive CMOS	1/2.8" Progressive CMOS	1/1.8" Progressive CMOS	1/2" Progressive CMOS	1/2.9" Progressive CMOS	1/2.9" Progressive CMOS	1/2" Progressive CMOS
Lens Type	Vari-focal Remote Focus CS-mount	Vari-focal Remote Back Focus	Vari-focal Remote Back Focus	Vari-focal Remote Back Focus i-CS (IP9191-HT)	Vari-focal Manual Focus	Fixed-focal	Vari-focal Remote Focus
F-number	F1.6 ~ F2.97 [IP9167-HT(2.8-10mm)] F1.8 ~ F2.3 [IP9167-HT(12-40 mm)]	F1.2 ~ F1.95	F1.6 ~ F2.4	F1.5 ~ F2.7	F1.4 ~ F2.4	F2.1	F1.3 ~ F2.2
Focal Length	f = 2.8 ~ 10 mm [IP9167-HT(2.8-10mm)] f = 12 ~ 40 mm [IP9167-HT(12-40mm)]	f = 2.8 ~ 8 mm	f = 4.1 ~ 9 mm	f = 3.9 ~ 10 mm	f = 2.8 ~ 12 mm	f = 3.6 mm	f = 4 ~ 9 mm f = 3.5 ~ 11.4 mm (equivalent focal length @ 1/2.8)
Field of View	IP9167-HT(2.8-10 mm): 35° ~ 105° (H), 20° ~ 55° (V) IP9167-HT(12-40 mm): 10° ~ 26° (H), 6° ~ 14° (V)	51° ~ 114° (H) 39° ~ 84° (V)	46° ~ 90° (H) 35° ~ 68° (V)	45° ~ 119° (H) 25° ~ 63° (V)	36° ~ 101° (H) 20° ~ 55° (V)	78° (H) 42° (V)	46° ~ 100° (H) 26° ~ 52° (V)
Auto-iris	P-iris	P-iris (DC-iris reserved)	DC-iris (P-iris reserved)	P-iris (IP9191-HP) i-CS (IP9191-HT) (DC-iris reserved)	DC-iris	-	P-iris
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR Illuminators	-	-	-	-	30 m, IR LED*10	30 m, IR LED*10	50 m, IR LED*5
Min. Illumination	0.07 Lux @ F1.6 (Color) 0.001 Lux @ F1.6 (B/W)	0.01 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W)	0.07 Lux @ F1.6 (Color) 0.001 Lux @ F1.6 (B/W)	0.02 Lux @ F1.5 (Color) 0.1 Lux @ F1.5 (B/W)	0.05 Lux @ F1.4 (Color) 0.01 Lux @ F1.4 (B/W) 0 Lux with IR illumination on	0.07 Lux @ F2.1 (Color) 0.01 Lux @ F2.1 (B/W) 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
Max. Video Resolution	1920x1080 (2MP)	2048x1536 (3MP)	2560x1920 (5MP)	3840x2160 (8MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)
Frames per Second	30 fps @ 1920x1080	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	30 fps @ 3840x2160 120 fps @ 1920x1080 (WDR Pro off)	30 fps @ 1920x1080	30 fps @ 1920x1080	60 fps @ 1920x1080
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Multiple Streams	3 Streams	3 Streams	4 Streams	3 Streams	4 Streams	4 Streams	4 Streams
WDR Technology*	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Enhanced	WDR Enhanced	WDR Pro II
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	-	-	VIVOCLOUD App	-
Trend Micro IoT Security	Yes	-	-	Yes	Yes	Yes	Yes
Power Input	DC 12V PoE	DC 12V AC 24V PoE	DC 12V AC 24V PoE	DC 12V AC 24V PoE	PoE	PoE	AC 24V DC 12V PoE
Power Consumption	Max. 6.5 W	Max. 8.6 W	Max. 9.7 W	Max. 12 W	Max. 10 W	Max. 10 W	IB93665-HT: Max. 11.9 W IB93665-EHT: Max. 24.8 W (Heater on)
Digital Input / Output	2/2	3/1	3/1	2/2	-	-	2/2
Audio	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	-	-	Two-way Audio (full duplex)
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 (Metal housing)	IP66, IK10 (Metal housing)	IP66, IK10, NEMA 4X
Dimensions	188 (D) x 70 (W) x 61 (H) mm (2.8~10mm) 205 (D) x 70 (W) x 61 (H) mm (12~40mm)	210 (D) x 70 (W) x 63 (H) mm	210 (D) x 70 (W) x 63 (H) mm	209 (D) x 70 (W) x 61 (H) mm (-HP) 210 (D) x 70 (W) x 61 (H) mm (-HT)	Ø 72 x 327 mm	Ø 72 x 300 mm	415 x 121 x 121 mm (w/ junction box)
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F) (-HT) -50°C ~ 50°C (-58°F ~ 122°F) (-EHT)

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Network Cameras

Network Cameras








Form Factor	Bullet Cameras			Bullet Cameras			
Video Resolution	2 Megapixel		3 Megapixel	4 Megapixel		5 Megapixel	
							
Model Name	IB9367-H IB9367-EH	IB9367-HT IB9367-EHT	IB9371-HT IB9371-EHT	IB8377-H	IB8377-HT IB8377-EHT	IB8379-H	IB8382-F3 IB8382-EF3
Summary	2MP, 30fps, H.265/H.264/MJPEG, WDR Pro, SNV*, Smart Stream III, Cable Management	2MP, 30fps, H.265/H.264/MJPEG, WDR Pro, SNV*, Smart Stream III, Remote Focus, Smart IR II	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, SNV*, Smart Stream II, Remote Focus, Smart IR II	4MP, 30fps, H.264/MJPEG, WDR Pro, Smart Stream II	5MP, 15fps, H.264/MJPEG, 3DNR, Cable Management
Sensor Type	1/2.8" progressive CMOS	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
Lens Type	Fixed-focal	Vari-focal Remote Focus	Vari-focal Remote Focus	Vari-focal Manual Focus	Vari-focal Remote Focus	Fixed-focal	Fixed-focal
F-number	F1.6	F1.4 ~ F2.8	F1.2 ~ F2.3	F1.4 ~ F2.2	F1.4 ~ F2.8	F2.1	F2.1
Focal Length	f = 3.6 mm	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
Field of View	88° (H) 47° (V)	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)
Auto-iris	-	P-iris	P-iris	DC-iris	P-iris	-	-
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR Illuminators	30 m, IR LED*2	30 m, IR LED*5	30 m, IR LED*8	30 m, IR LED*10	30 m, IR LED*5	30 m, IR LED*10	30 m, IR LED*8
Min. Illumination	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) 0 Lux with IR illumination on	0.1 Lux @ F1.4 (Color) 0.01 Lux @ F1.4 (B/W) 0 Lux with IR illumination on	0.1 Lux @ F1.4 (Color) 0.01 Lux @ F1.4 (B/W) 0 Lux with IR illumination on	0.18 Lux @ F2.1 (Color) 0.01 Lux @ F2.1 (B/W) 0 Lux with IR illumination on	0.089 Lux @ F2.1 (Color) 0.001 Lux @ F2.1 (B/W) 0 Lux with IR illumination on
Max. Video Resolution	1920x1080 (2MP)	1920x1080 (2MP)	2048x1536 (3MP)	2688x1520 (4MP)	2688x1520 (4MP)	2688x1520 (4MP)	2560x1920 (5MP)
Frames per Second	30 fps @ 1920x1080	30 fps @ 1920x1080	H.265/H.264: 30 fps@ 2048x1536 MJPEG: 15 fps@ 2048x1536	30 fps @ 2688x1520 (WDR Pro off) 24 fps @ 2560x1440	30 fps @ 2688x1520 (WDR Pro off) 24 fps @ 2560x1440	30 fps @ 2688x1520 (WDR Pro off) 24 fps @ 2560x1440	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)	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)
Multiple Streams	3 Streams	3 Streams	3 Streams	3 Streams	3 Streams	3 Streams	4 Streams
WDR Technology*	WDR Pro	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
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	-	-	-	VIVOCLOUD App
Trend Micro IoT Security	Yes	Yes	-	-	-	-	-
Power Input	DC 12V PoE	DC 12V PoE	DC 12V PoE	PoE	DC 12V PoE	PoE	DC 12V PoE
Power Consumption	IB9367-H: Max. 7 W IB9367-EH: Max. 24 W (Heater on)	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)
Digital Input / Output	I/I	I/I	I/I	-	I/I	-	I/I
Audio	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	-	Two-way Audio (full duplex)	-	Two-way Audio (full duplex)
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	SD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	MicroSD/SDHC/SDXC card slot	SD/SDHC/SDXC Card Slot
Housing	IP66, IP67, IK10 (Metal 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)
Dimensions	266 x 118 x 118 mm	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
Operating Temperature	-20°C ~ 50°C (-4°F ~ 122°F) (-H) -50°C ~ 50°C (-58°F ~ 122°F) (-EH)	-30°C ~ 50°C (-22°F ~ 122°F) (-HT) -50°C ~ 50°C (-58°F ~ 122°F) (-EHT)	-20°C ~ 50°C (-4°F ~ 122°F) (-HT) -50°C ~ 50°C (-58°F ~ 122°F) (-EHT)	-20°C ~ 50°C (-4°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F) (-HT) -50°C ~ 50°C (-58°F ~ 122°F) (-EHT)	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F) (-F3) -50°C ~ 50°C (-58°F ~ 122°F) (-EF3)

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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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*I-CS: Intelligent CS-mount lenses can be used for add-on value functions, ex. remote zoom focus control, distortion correction, shading correction, etc.

Network Cameras

Network Cameras



Form Factor	Bullet Cameras			Bullet Cameras			
Video Resolution	5 Megapixel			5 Megapixel			
		 <div><div>H.265</div><div>SNV</div><div>WDR</div></div>	 <div><div>H.265</div><div>SNV</div><div>WDR</div><div>NEW</div></div>	 <div><div>H.265</div><div>SNV</div><div>WDR</div><div>NEW</div></div>	 <div><div>H.265</div><div>SNV</div><div>WDR</div><div>Coming Soon</div></div>	 <div><div>H.265</div><div>SNV</div><div>WDR</div><div>Coming Soon</div></div>	 <div><div>H.265</div><div>SNV</div><div>WDR</div><div>Coming Soon</div></div>
Model Name	IB8382-T IB8382-ET	IB9381-HT IB9381-EHT	IB9387-H IB9387-EH	IB9387-HT IB9387-EHT	IB9389-H IB9389-EH	IB9389-HM IB9389-EHM	IB9389-HT IB9389-EHT
Summary	5MP, 15fps, H.264/MJPEG, P-irs, Remote Focus, 3DNR, Cable Management	5MP, 30fps, H.265H.264/MJPEG, Remote Focus, SNV*, WDR Pro, Smart Stream II, Cable Management	5MP, 30fps, H.265H.264/MJPEG, SNV*, WDR Pro, Smart Stream III, Smart IR	5MP, 30fps, H.265H.264/MJPEG, SNV*, WDR Pro, Smart Stream III, Smart IR II	5MP, 30fps, H.265/H.264/MJPEG, SNV*, WDR Pro, Smart Stream III, Smart IR	5MP, 30fps, H.265/H.264/MJPEG, SNV*, WDR Pro, Smart Stream III, Smart IR	5MP, 30fps, H.265/H.264/MJPEG, Remote Focus, SNV*, WDR Pro, Smart Stream III, Smart IR II
Sensor Type	1/3.2" Progressive CMOS	1/1.8" 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	Vari-focal Remote Focus	Vari-focal Remote Focus	Fixed-focal	Vari-focal Remote Focus	Fixed-focal	Vari-focal Manual Focus	Vari-focal Remote Focus
F-number	F1.2 ~ F2.3	F1.3 ~ F2.2	F2.0	F2.0	F2.0	F1.4 ~ F2.8	F1.9 ~ F2.9
Focal Length	f = 3 ~ 9 mm	f = 4 ~ 9 mm	f = 3.6 mm	TBD	f = 3.6 mm	f = 2.7 ~ 13.5 mm	f = 3.7 ~ 7.7 mm
Field of View	35° ~ 78° (H) 27° ~ 54° (V)	45° ~ 84° (H) 34° ~ 62° (V)	76° (H) 56° (V)	TBD	76° (H) 56° (V)	TBD	38° ~ 80° (H) 29° ~ 60° (V)
Auto-iris	P-iris	P-iris	Fixed-iris	P-iris	Fixed-iris	DC-iris	Fixed-iris
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR Illuminators	30 m, IR LED*8	30 m, IR LED*8	30m, IR LED*2	30m, IR LED*6	TBD	TBD	TBD
Min. Illumination	0.04 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W) 0 Lux with IR illumination on	0.04 Lux @ F1.3 (Color) 0.001 Lux @ F1.3 (B/W) 0 Lux with IR illumination on	0.06 Lux @ F2.0 (Color) <0.01 lux, F2.0 (B/W) 0 Lux with IR illumination on	TBD	TBD	TBD	TBD
Max. Video Resolution	2560x1920 (5MP)	2560x1920 (5MP)	2560x1920 (5MP)	2560x1920 (5MP)	2560x1920 (5MP)	2560x1920 (5MP)	2560x1920 (5MP)
Frames per Second	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	30 fps @ 1920x2560	30 fps @ 2560x1920 60 fps @ 1920x1080	30 fps @ 2560x1920	30 fps @ 2560x1920	30 fps @ 2560x1920
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	3 Streams	3 Streams	3 Streams	3 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	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App
Trend Micro IoT Security	-	-	Yes	Yes	Yes	Yes	Yes
Power Input	DC 12V PoE	DC 12V PoE	AC 24V DC 12V PoE (Redundant Power)	AC 24V DC 12V PoE (Redundant Power)	PoE	PoE	PoE
Power Consumption	IB8382-T: Max. 9.5 W IB8382-ET: Max. 25 W (Heater on)	IB9381-HT: Max. 12.7 W IB9381-EHT: Max. 25.5 W (Heater on)	IB9387-H: Max. 8 W IB9387-EH: Max. 19.3 W	TBD	TBD	TBD	TBD
Digital Input / Output	1/1	1/1	1/1	1/1	-	-	-
Audio	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	-	-	-
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	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)	IP66, IK10 (Metal housing)	IP66, IP67, IK10 (Metal housing)	IP66, IP67, IK10 (Metal housing)	IP66, IK10 (Metal housing)	IP66, IK10 (Metal housing)	IP66, IK10 (Metal housing)
Dimensions	Ø 88 x 293 mm	Ø 88 x 293 mm	117 x 117 x 326 mm (w/ junction box)	117 x 117 x 326 mm (w/ junction box)	Ø 72 x 300 mm	Ø 72 x 327 mm	Ø 72 x 327 mm
Operating Temperature	-20°C ~ 50°C (-4°F ~ 122°F) (-T) -50°C ~ 50°C (-58°F ~ 122°F) (-ET)	-20°C ~ 50°C (-4°F ~ 122°F) (-HT) -50°C ~ 50°C (-58°F ~ 122°F) (-EHT)	-30°C ~ 60°C (-22°F ~ 140°F) (-H) -50°C ~ 60°C (-58°F ~ 140°F) (-EH)	-30°C ~ 60°C (-22°F ~ 140°F) (-HT) -50°C ~ 50°C (-58°F ~ 122°F) (-EHT)	TBD	TBD	TBD

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Network Cameras

Network Cameras

Form Factor	Bullet Cameras		Thermal Bullet Cameras		Zoom Lens Camera	Fixed Dome Cameras		
Video Resolution	8 Megapixel				2 Megapixel	2 Megapixel		
	 <div>H.265 SNV WDR NEW</div>		 <div>H.265 NEW</div>	 <div>H.265 NEW</div>	 <div>H.265 WDR</div>	 <div>SNV</div>	 <div>SNV</div>	
Model Name	IB9391-EHT	TB9330-E	TB9331-E	IZ9361-EH	FD8166A	FD8166A-N	FD8366-V	
Summary	8MP, 30fps, H.265/H.264/MJPEG, Remote Focus, SNV*, WDR Pro, Smart Stream III	360x240, NETD<50mk, H.265, EN50121-4	720x480, NETD<50mk, H.265, EN50121-4	2MP, 60fps, 150M Smart IR II, 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, 15 m IR, Smart Stream II, Compact Size	
Sensor Type	1/2" Progressive CMOS	Uncooled Vox Infrared Defector	Uncooled Vox Infrared Defector	1/3" Progressive CMOS	1/2.9" Progressive CMOS	1/2.9" Progressive CMOS	1/2.9" Progressive CMOS	
Lens Type	Vari-focal Remote Focus	Fixed Focal (Thermal Lens)	Fixed Focal (Thermal Lens)	20x Optical Zoom Auto Focus	Fixed-focal	Fixed-focal	Fixed-focal	
F-number	F1.5 ~ F2.7	F1.0	F1.0	F1.6 ~ F3.5	F1.8 [FD8166A(2.8mm)] F2.1 [FD8166A(3.6mm)]	F1.8	F1.8 [FD8366-V(2.8mm)] F2.1 [FD8366-V(3.6mm)]	
Focal Length	f = 3.9 ~ 10 mm	f = 8.8 mm f = 19 mm	f = 8.8 mm f = 19 mm	f = 4.7 ~ 94 mm	f = 2.8 mm [FD8166A(2.8mm)] f = 3.6 mm [FD8166A(3.6mm)]	f = 2.8 mm	f = 2.8 mm [FD8366-V(2.8mm)] f = 3.6 mm [FD8366-V(3.6mm)]	
Field of View	45° ~ 95° (H) 25° ~ 52° (V)	38.3° (H), 26.1° (V) [TB9330-E(8.8mm)] 18.3° (H), 12.3° (V) [TB9330-E(19mm)]	69.6° (H), 49.7° (V) [TB9331-E(8.8mm)] 35.7° (H), 24.2° (V) [TB9331-E(19mm)]	2.9° ~ 55.4° (H) 1.6° ~ 32.6° (V)	113° (H), 63° (V) [FD8166A(2.8mm)] 83° (H), 44° (V) [FD8166A(3.6mm)]	113° (H) 63° (V)	113° (H), 63° (V) [FD8366-V(2.8mm)] 77° (H), 41° (V) [FD8366-V(3.6mm)]	
Auto-iris	P-iris	Fixed-iris	Fixed-iris	DC-iris	-	-	-	
Day/Night	Yes	-	-	Yes	-	-	Yes	
IR Illuminators	50m, IR LED*5	-	-	150 m	-	6 m	15 m	
Min. Illumination	0.02 Lux @ F1.5 (Color) 0.01 Lux @ F1.5 (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	0.05 Lux @ F1.8 [FD8166A(2.8mm)] 0.06 Lux @ F2.1 [FD8166A(3.6mm)]	0.05 Lux @ F1.8 (Color) 0.001 Lux @ F1.8 (B/W) 0 Lux with IR illumination 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	
Max. Video Resolution	3840x2160 (8MP)	-	-	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	
Frames per Second	30 fps @ 3840x2160 (WDR Pro on) 120 fps @ 1920x1080 (WDR Pro off)	30 fps @ 360x240	30 fps @ 720x480	H.265/H.264: 60 fps @ 1920x1080 MJPEG: 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)	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)	
Multiple Streams	3 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	
3DNR	Yes	-	-	Yes	Yes	Yes	Yes	
Cloud Service	-	-	-	-	VIVOCLOUD App	VIVOCLOUD App	-	
Trend Micro IoT Security	Yes	Yes	Yes	-	Yes	Yes	Yes	
Power Input	AC 24V DC 12V PoE	AC 24V (Redundant Power) DC 12V PoE	AC 24V (Redundant Power) DC 12V PoE	60W UPoE DC 24V AC 24V	PoE	PoE	PoE	
Power Consumption	Max. 25 W	Max. 12.5 W (Heater on)	Max. 14 W (Heater on)	Max. 48/18 W (Heater on/off)	Max. 3 W	Max. 4.75 W	Max. 5.3 W	
Digital Input / Output	1/1	1/1	1/1	3/1	1/0	-	-	
Audio	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	One-way Audio	One-way Audio	One-way Audio	
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	SD/SDHC/SDXC Card Slot	MicroSD/SDHC/SDXC Card Slot	MicroSD/SDHC/SDXC Card Slot	MicroSD/SDHC/SDXC Card Slot	
Housing	IP66, IP67, IK10 (Metal housing), NEMA 4X	IP66, IP67, IK10, NEMA 4X	IP66, IP67, IK10, NEMA 4X	IP67, IK10, NEMA 4X	-	-	IP66, IK10, NEMA 4X	
Dimensions	121 x 121 x 394 mm (w/ junction box) 118 x 118 x 333 mm (w/o junction box)	121 x 121 x 472 mm (8.8mm) 121 x 121 x 453 mm (19mm)	121 x 121 x 472 mm (8.8mm) 121 x 121 x 453 mm (19mm)	147 x 375 x 322 mm	Ø 90 x 50 mm	Ø 90 x 50 mm	Ø 110 x 57 mm	
Operating Temperature	Working Temperature (IR off): -50°C ~ 60°C (-58°F ~ 140°F) Working Temperature (IR on): -50°C ~ 50°C (-58°F ~ 122°F)	-50°C ~ 60°C (-58°F ~ 140°F)	-50°C ~ 60°C (-58°F ~ 140°F)	-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)	

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Network Cameras

Network Cameras








Form Factor	Fixed Dome Cameras				Fixed Dome Cameras		
Video Resolution	2 Megapixel				2 Megapixel		
	 	 	 	 	 	   	   
Model Name	FD8167A	FD8367A-V	FD8169A	FD8369A-V	FD816CA-HF2	FD9165-HT	FD9365-HTV FD9365-EHTV
Summary	2MP, 30fps, H.264/MJPEG, SNV*	2MP, 30fps, H.264/MJPEG, SNV*	2MP, 30fps, H.264/MJPEG, SNV*	2MP, 30fps, H.264/MJPEG, SNV*	2MP, 30fps, H.264/MJPEG, WDR Pro, Recessed-Mount, Ultra-mini Size	2MP, 60fps, H.265/H.264/MJPEG, WDR Pro II, SNV II*, Remote Focus, Smart Stream III	2MP, 60fps, H.265/H.264/MJPEG, WDR Pro II, SNV II*, Remote Focus, Smart Stream III
Sensor Type	1/2.9" Progressive CMOS	1/2.9" Progressive CMOS	1/2.9" Progressive CMOS	1/2.9" Progressive CMOS	1/2.7" progressive CMOS	1/2" Progressive CMOS	1/2" Progressive CMOS
Lens Type	Vari-focal Manual Focus	Vari-focal Manual Focus	Fixed-focal	Fixed-focal	Fixed Focal	Vari-focal Remote Focus	Vari-focal Remote Focus
F-number	F1.4 ~ F2.4	F1.4 ~ F2.4	F1.8	F1.8	F1.8	F1.3 ~ F2.2	F1.3 ~ F2.2
Focal Length	f = 2.8 ~ 12 mm	f = 2.8 ~ 12 mm	f = 2.8 mm	f = 2.8 mm	f = 2.8 mm	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)
Field of View	33° ~ 97° (H) 19° ~ 53° (V)	33° ~ 97° (H) 19° ~ 53° (V)	114° (H) 61° (V)	114° (H) 61° (V)	122° (H) 66° (V)	46° ~ 120° (H) 26° ~ 60° (V)	46° ~ 120° (H) 26° ~ 60° (V)
Auto-iris	DC-iris	DC-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	20 m, IR LED*8	30 m, IR LED*8	-	50 m, IR LED*5	50 m, IR LED*5
Min. Illumination	0.05 Lux @ F1.4 (Color) 0.01 Lux @ F1.4 (B/W) 0 Lux with IR illumination on	0.05 Lux @ F1.4 (Color) 0.01 Lux @ F1.4 (B/W) 0 Lux with IR illumination on	0.1 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W) 0 Lux with IR illumination on	0.06 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W) 0 Lux with IR illumination on	0.15 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	0.04 Lux @ F1.3 (Color), 50IRE 0.002 Lux @ F1.3 (Color), 30IRE 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	60 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/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Multiple Streams	4 Streams	4 Streams	4 Streams	4 Streams	3 Streams	4 Streams	4 Streams
WDR Technology*	WDR Enhanced	WDR Enhanced	WDR Enhanced	WDR Enhanced	WDR Pro	WDR Pro II	WDR Pro II
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	-	-
Trend Micro IoT Security	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Input	PoE	PoE	PoE	PoE	PoE	DC 12V AC 24V PoE	DC 12V AC 24V PoE
Power Consumption	Max. 8.5 W	Max. 10.5 W	Max. 8.5 W	Max. 10.5 W	Max. 3.3 W	Max. 10.7 W	FD9365-HTV: Max. 11.9 W FD9365-EHTV: Max. 24.8 W (Heater on)
Digital Input / Output	-	-	-	-	-	2/2	2/2
Audio	One-way Audio (Optional)	-	One-way Audio (Optional)	-	One-way Audio	Two-way Audio (full duplex)	Two-way Audio (full duplex)
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, NEMA 4X
Dimensions	Ø 129 x 94 mm	Ø 129 x 93 mm	Ø 129 x 94 mm	Ø 129 x 93 mm	Ø 60 x 115 mm	Ø 139 x 104 mm	Ø 155 x 138 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)	-20°C ~ 50°C (-4°F ~ 122°F)	-10°C ~ 45°C (14°F ~ 113°F)	-10°C ~ 50°C (14°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F) (-HTV) -50°C ~ 50°C (-58°F ~ 122°F) (-EHTV)

*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

Network Cameras








Form Factor	Fixed Dome Cameras			Fixed Dome Cameras			
Video Resolution	2 Megapixel			2 Megapixel	3 Megapixel		4 Megapixel
	 <div>H.265 SNV WDR</div>	 <div>H.265 SNV WDR</div>	 <div>H.265 SNV WDR</div>	 <div>H.265 SNV WDR</div>	 <div>H.265 SNV WDR</div>	 <div>H.265 SNV WDR</div>	 <div>WDR</div>
Model Name	FD9167-H	FD9167-HT	FD9367-HV	FD9367-HTV FD9367-EHTV	FD9171-HT	FD9371-HTV FD9371-EHTV	FD8177-H
Summary	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	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
Sensor Type	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	1/2.8" progressive CMOS	1/3" 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
F-number	F1.6	F1.4 ~ F2.8	F1.6	F1.4 ~ F2.8	F1.2 ~ F2.3	F1.2 ~ F2.3	F1.4 ~ F2.2
Focal Length	f = 2.8 mm	f = 2.8 ~ 12 mm	f = 2.8 mm	f = 2.8 ~ 12 mm	f = 3 ~ 9 mm	f = 3 ~ 9 mm	f = 2.8 ~ 12 mm
Field of View	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)	41° ~ 86° (H) 31° ~ 64° (V)	33° ~ 105° (H) 18° ~ 54° (V)
Auto-iris	-	P-iris	-	P-iris	P-iris	P-iris	DC-iris
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR Illuminators	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	30 m, IR LED*8	30 m, IR LED*8
Min. Illumination	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) 0 Lux with IR illumination on	0.01 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W) 0 Lux with IR illumination on	0.1 Lux @ F1.4 (Color) 0.01 Lux @ F1.4 (B/W) 0 Lux with IR illumination on
Max. Video Resolution	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	2048x1536 (3MP)	2048x1536 (3MP)	2688x1520 (4MP)
Frames per Second	30 fps@ 1920x1080	30 fps@ 1920x1080	30 fps@ 1920x1080	30 fps@ 1920x1080	H.265/H.264: 30 fps @ 2048x1536 MJPEG: 15 fps @ 2048x1536	H.265/H.264: 30 fps @ 2048x1536 MJPEG: 15 fps @ 2048x1536	30 fps @ 2688x1520 (WDR Pro off) 24 fps @ 2560x1440
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)	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	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro (supports up to 3.6MP)
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	-
Trend Micro IoT Security	Yes	Yes	Yes	Yes	-	-	-
Power Input	DC 12V PoE	DC 12V PoE	DC 12V PoE	DC 12V PoE	DC 12V PoE	DC 12V PoE	PoE
Power Consumption	Max. 7 W	Max. 10 W	Max. 7 W	FD9367-HTV: Max. 10 W FD9367-EHTV: Max. 25 W (Heater on)	Max. 12 W	FD9371-HTV: Max. 12 W FD9371-EHTV: Max. 24.7 W (Heater on)	Max. 10 W
Digital Input / Output	1/1	1/1	1/1	1/1	1/1	1/1	-
Audio	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	One-way Audio
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 104 mm	Ø 139 x 104 mm	Ø 155 x 104 mm	Ø 155 x 104 mm	Ø 138 x 103 mm	Ø 155 x 103 mm	Ø 129 x 94 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)	-30°C ~ 50°C (-22°F ~ 122°F) (-HTV) -50°C ~ 50°C (-58°F ~ 122°F) (-EHTV)	-10°C ~ 50°C (14°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F) (-HTV) -50°C ~ 50°C (-58°F ~ 122°F) (-EHTV)	-10°C ~ 50°C (14°F ~ 122°F)

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Network Cameras

Network Cameras

Form Factor	Fixed Dome Cameras			Fixed Dome Cameras			
Video Resolution	4 Megapixel			4 Megapixel		5 Megapixel	
	 <div>WDR NEW</div>	 <div>WDR</div>	 <div>WDR NEW</div>	 <div>WDR</div>	 <div>WDR</div>		
Model Name	FD8177-HT	FD8377-HV	FD8377-HTV FD8377-EHTV	FD8179-H	FD8379-HV	FD8182-F2	FD8182-T
Summary	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	5MP, 15fps, H.264/MJPEG, 3DNR, PIR	5MP, 15fps, H.264/MJPEG, Remote Focus, 3DNR, PIR
Sensor Type	1/3" progressive CMOS	1/3" 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	Vari-focal Remote Focus	Fixed-focal	Fixed-focal	Fixed-focal	Vari-focal Remote Focus
F-number	F1.4 ~ F2.8	F1.4 ~ F2.2	F1.4 ~ F2.8	F1.8	F1.8	F1.8	F1.2 ~ F2.3
Focal Length	f = 2.8 ~ 12 mm	f = 2.8 ~ 12 mm	f = 2.8 ~ 12 mm	f = 2.8 mm	f = 2.8 mm	f = 2.8 mm	f = 3 ~ 9 mm
Field of View	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)	90° (H) 67° (V)	35° ~ 78° (H) 27° ~ 54° (V)
Auto-iris	P-iris	DC-iris	P-iris	-	-	-	P-iris
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR Illuminators	30 m, IR LED*4	30 m, IR LED*8	30 m, IR LED*4	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 @ F1.4 (Color) 0.01 Lux @ F1.4 (B/W) 0 Lux with IR illumination on	0.1 Lux @ F1.4 (Color) 0.01 Lux @ F1.4 (B/W) 0 Lux with IR illumination on	0.1 Lux @ F1.4 (Color) 0.01 Lux @ F1.4 (B/W) 0 Lux with IR illumination on	0.14 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W) 0 Lux with IR illumination on	0.14 Lux @ F1.8 (Color) 0.01 Lux @ F1.8 (B/W) 0 Lux with IR illumination on	0.39 Lux @ F1.8 (Color) 0.001 Lux @ F1.8 (B/W) 0 Lux with IR illumination on	0.04 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W) 0 Lux with IR illumination on
Max. Video Resolution	2688x1520 (4MP)	2688x1520 (4MP)	2688x1520 (4MP)	2688x1520 (4MP)	2688x1520 (4MP)	2560x1920 (5MP)	2560x1920 (5MP)
Frames per Second	30 fps @ 2688x1520 (WDR Pro off) 24 fps @ 2560x1440	30 fps @ 2688x1520 (WDR Pro off) 24 fps @ 2560x1440	30 fps @ 2688x1520 (WDR Pro off) 24 fps @ 2560x1440	30 fps @ 2688x1520 (WDR Pro off) 24 fps @ 2560x1440	30 fps @ 2688x1520 (WDR Pro off) 24 fps @ 2560x1440	15 fps @ 2560x1920 15 fps @ 2408x1536 30 fps @ 1920x1080	15 fps @ 2560x1920 15 fps @ 2048x1536 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)	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 (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 Enhanced	WDR Enhanced
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	-	-	-	-	-	VIVOCloud App	VIVOCloud App
Trend Micro IoT Security	-	-	-	-	-	-	-
Power Input	DC 12V PoE	PoE	DC 12V PoE	PoE	PoE	DC 12V PoE	DC 12V PoE
Power Consumption	Max. 11 W	Max. 10 W	FD8377-HTV: Max. 11 W FD8377-EHTV: Max. 23 W (Heater on)	Max. 10 W	Max. 10 W	Max. 9 W	Max. 9.5 W
Digital Input / Output	1/1	-	1/1	-	-	1/1	1/1
Audio	Two-way Audio (full duplex)	-	Two-way Audio (full duplex)	One-way Audio	-	Two-way Audio (full duplex)	Two-way Audio (full duplex)
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 139 x 104 mm	Ø 129 x 93 mm	Ø 155 x 104 mm	Ø 129 x 94 mm	Ø 129 x 93 mm	Ø 138 x 103 mm	Ø 138 x 103 mm
Operating Temperature	-10°C ~ 50°C (14°F ~ 122°F) (IR off) -10°C ~ 40°C (14°F ~ 104°F) (IR on)	-20°C ~ 50°C (-4°F ~ 122°F)	-30°C ~ 50°C (-22°F ~ 122°F) (-HTV) -50°C ~ 50°C (-58°F ~ 122°F) (-EHTV)	-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)

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Network Cameras

Network Cameras

Form Factor	Fixed Dome Cameras			Fixed Dome Cameras			
Video Resolution	5 Megapixel			5 Megapixel			
			 <div>H.265 SNV WDR</div>	 <div>H.265 SNV WDR</div>	 <div>H.265 SNV WDR NEW</div>	 <div>H.265 SNV WDR NEW</div>	 <div>H.265 SNV WDR NEW</div>
Model Name	FD8382-VF2 FD8382-EVF2	FD8382-TV FD8382-ETV	FD9181-HT	FD9381-HTV FD9381-EHTV	FD9187-H	FD9187-HT	FD9387-HV FD9387-EHV
Summary	5MP, 15fps, H.264/MJPEG, 3DNR	5MP, 15fps, H.264/MJPEG, Remote Focus, 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, 30fps, H.265H.264/MJPEG, SNV*, WDR Pro, Smart Stream III, Smart IR	5MP, 30fps, H.265H.264/MJPEG, SNV*, WDR Pro, Smart Stream III, Smart IR II	5MP, 30fps, H.265H.264/MJPEG, SNV*, WDR Pro, Smart Stream III, Smart IR
Sensor Type	1/3.2" Progressive CMOS	1/3.2" Progressive CMOS	1/1.8" progressive CMOS	1/1.8" progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS
Lens Type	Fixed-focal	Vari-focal Remote Focus	Vari-focal Remote Focus	Vari-focal Remote Focus	Fixed-focal	Vari-focal Remote Focus	Fixed-focal
F-number	F1.8	F1.2 ~ F2.3	F1.3 ~ F2.2	F1.3 ~ F2.2	F2.0	F1.85 ~ F2.9	F2.0
Focal Length	f = 2.8 mm	f = 3 ~ 9 mm	f = 4 ~ 9 mm	f = 4 ~ 9 mm	f = 2.8 mm	f = 2.7 ~ 13.5 mm	f = 2.8 mm
Field of View	90° (H) 67° (V)	35° ~ 78° (H) 27° ~ 54° (V)	45° ~ 93° (H) 34° ~ 68° (V)	45° ~ 93° (H) 34° ~ 68° (V)	103° (H) 76°(V)	100° (H) 72°(V)	103° (H) 76°(V)
Auto-iris	-	P-iris	P-iris	P-iris	Fixed-iris	P-iris	Fixed-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	30m, IR LED*2	50m, IR LED*4	30m, IR LED*2
Min. Illumination	0.39 Lux @ F1.8 (Color) 0.001 Lux @ F1.8 (B/W) 0 Lux with IR illumination on	0.04 Lux @ F1.2 (Color) 0.001 Lux @ F1.2 (B/W) 0 Lux with IR illumination on	0.04 Lux @ F1.3 (Color) 0.001 Lux @ F1.3 (B/W) 0 Lux with IR illumination on	0.04 Lux @ F1.3 (Color) 0.001 Lux @ F1.3 (B/W) 0 Lux with IR illumination on	0.06 Lux @ F2.0 (Color) <0.01 lux, F2.0 (B/W) 0 Lux with IR illumination on	0.07 Lux @ F1.85 (Color) <0.01 lux, F1.85 (B/W) 0 Lux with IR illumination on	0.06 Lux @ F2.0 (Color) <0.01 lux, F2.0 (B/W) 0 Lux with IR illumination on
Max. Video Resolution	2560x1920 (5MP)	2560x1920 (5MP)	2560x1920 (5MP)	2560x1920 (5MP)	2560x1920 (5MP)	2560x1920 (5MP)	2560x1920 (5MP)
Frames per Second	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	30 fps @ 2560x1920 60 fps @ 1920x1080	30 fps @ 2560x1920 60 fps @ 1920x1080	30 fps @ 2560x1920 60 fps @ 1920x1080
Video Compression	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)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Multiple Streams	4 Streams	4 Streams	4 Streams	4 Streams	3 Streams	3 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	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App
Trend Micro IoT Security	-	-	-	-	Yes	Yes	Yes
Power Input	DC 12V PoE	DC 12V PoE	DC 12V PoE	DC 12V PoE	AC 24V DC 12V PoE (Redundant Power)	AC 24V DC 12V PoE (Redundant Power)	AC 24V DC 12V PoE (Redundant Power)
Power Consumption	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. 13.6 W	Max. 19.2 W	FD9387-HV: Max. 13.6 W FD9387-EHV: Max. 36.5 W
Digital Input / Output	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Audio	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)
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	IP66, IP67, IK10 (Metal housing)	IP66, IP67, IK10 (Metal housing)	IP66, IP67, IK10 (Metal housing)
Dimensions	Ø 155 x 103 mm	Ø 155 x 103 mm	Ø 138 x 103 mm	Ø 155 x 103 mm	139 x 104 mm	139 x 104 mm	155 x 104 mm
Operating Temperature	-20°C ~ 50°C (-4°F ~ 122°F) (-VF2) -50°C ~ 50°C (-58°F ~ 122°F) (-EVF2)	-20°C ~ 50°C (-4°F ~ 122°F) (-TV) -50°C ~ 50°C (-58°F ~ 122°F) (-ETV)	-10°C ~ 50°C (14°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F) (-HTV) -50°C ~ 50°C (-58°F ~ 122°F) (-EHTV)	-10°C ~ 45°C (14°F ~ 113°F)	-10°C ~ 45°C (14°F ~ 113°F)	-30°C ~ 60°C (-22°F ~ 140°F) (-HV) -50°C ~ 60°C (-58°F ~ 140°F) (-EHV)

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Network Cameras








Form Factor	Fixed Dome Cameras			Fixed Dome Cameras			
Video Resolution	5 Megapixel			5 Megapixel			
<div><div><div><div>H.265</div><div>SNV</div><div>WDR</div><div>NEW</div></div></div><div><div><div>H.265</div><div>SNV</div><div>WDR</div><div>Coming Soon</div></div></div><div><div><div>H.265</div><div>SNV</div><div>WDR</div><div>Coming Soon</div></div></div><div><div><div>H.265</div><div>SNV</div><div>WDR</div><div>Coming Soon</div></div></div><div><div><div>H.265</div><div>SNV</div><div>WDR</div><div>Coming Soon</div></div></div><div><div><div>H.265</div><div>SNV</div><div>WDR</div><div>Coming Soon</div></div></div><div><div><div>H.265</div><div>SNV</div><div>WDR</div><div>Coming Soon</div></div></div></div>							
Model Name	FD9387-HTV FD9387-EHTV	FD9189-H	FD9189-HM	FD9189-HT	FD9389-HV FD8389-EHV	FD9389-HMV FD9389-EH MV	FD9389-HTV FD9389-EHTV
Summary	5MP, 30fps, H.265H.264/MJPEG, SNV*, WDR Pro, Smart Stream III, Smart IR II	5MP, 30fps, H.265/H.264/MJPEG, SNV*, WDR Pro, Smart Stream III, Smart IR	5MP, 30fps, H.265/H.264/MJPEG, SNV*, WDR Pro, Smart Stream III, Smart IR	5MP, 30fps, H.265/H.264/MJPEG, Remote Focus, SNV*, WDR Pro, Smart Stream III, Smart IR II	5MP, 30fps, H.265/H.264/MJPEG, SNV*, WDR Pro, Smart Stream III, Smart IR	5MP, 30fps, H.265/H.264/MJPEG, SNV*, WDR Pro, Smart Stream III, Smart IR	5MP, 30fps, H.265/H.264/MJPEG, Remote Focus, SNV*, WDR Pro, Smart Stream III, Smart IR II
Sensor Type	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS
Lens Type	Vari-focal Remote Focus	Fixed-focal	Vari-focal Manual Focus	Vari-focal Remote Focus	Fixed-focal	Vari-focal Manual Focus	Vari-focal Remote Focus
F-number	F1.85 ~ F2.9	F2.0	F1.4 ~ F2.8	F1.9 ~ F2.9	F2.0	F1.4 ~ F2.8	F1.9 ~ F2.9
Focal Length	f = 2.7 ~ 13.5 mm	f = 2.8 mm	f = 2.7 ~ 13.5 mm	f = 3.7 ~ 7.7 mm	f = 2.8 mm	f = 2.7 ~ 13.5 mm	f = 3.7 ~ 7.7 mm
Field of View	100° (H) 72° (V)	103° (H) 76° (V)	30° ~ 100° (H) 23° ~ 72° (V)	38° ~ 80° (H) 29° ~ 60° (V)	103° (H) 76° (V)	30° ~ 100° (H) 23° ~ 72° (V)	38° ~ 80° (H) 29° ~ 60° (V)
Auto-iris	P-iris	Fixed-iris	DC-iris	Fixed-iris	Fixed-iris	DC-iris	Fixed-iris
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR Illuminators	30m, IR LED*4	TBD	TBD	TBD	TBD	TBD	TBD
Min. Illumination	0.07 Lux @ F1.85 (Color) <0.01 lux, F1.85 (B/W) 0 Lux with IR illumination on	TBD	TBD	TBD	TBD	TBD	TBD
Max. Video Resolution	2560x1920 (5MP)	2560x1920 (5MP)	2560x1920 (5MP)	2560x1920 (5MP)	2560x1920 (5MP)	2560x1920 (5MP)	2560x1920 (5MP)
Frames per Second	30 fps @ 2560x1920 60 fps @ 1920x1080	30 fps @ 2560x1920	30 fps @ 2560x1920	30 fps @ 2560x1920	30 fps @ 2560x1920	30 fps @ 2560x1920	30 fps @ 2560x1920
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	3 Streams	3 Streams	3 Streams	3 Streams	3 Streams	3 Streams	3 Streams
WDR Technology*	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App
Trend Micro IoT Security	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power Input	AC 24V DC 12V PoE (Redundant Power)	PoE	PoE	PoE	PoE	PoE	PoE
Power Consumption	FD9387-HTV: Max. 19.2 W FD9387-EHTV: Max. 42.2 W	TBD	TBD	TBD	TBD	TBD	TBD
Digital Input / Output	1/1	-	-	-	-	-	-
Audio	Two-way Audio (full duplex)	One-way Audio	One-way Audio	One-way Audio	One-way Audio	One-way Audio	One-way Audio
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, IP67, IK10 (Metal housing)	-	-	-	IP66, IK10(Metal housing)	IP66, IK10(Metal housing)	IP66, IK10(Metal housing)
Dimensions	155 x 104 mm	Ø 129 x 94 mm	Ø 129 x 94 mm	Ø 129 x 94 mm	Ø 129 x 93 mm	Ø 129 x 93 mm	Ø 129 x 93 mm
Operating Temperature	-30°C ~ 60°C (-22°F ~ 140°F) (-HTV) -50°C ~ 60°C (-58°F ~ 140°F) (-EHTV)	TBD	TBD	TBD	TBD	TBD	TBD

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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

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Form Factor	Fixed Dome Cameras			Corner Cameras		180° Panoramic Cameras	
Video Resolution	5 Megapixel		8 Megapixel	3 Megapixel		2 Megapixel	2 Megapixel
<div><div><div><div>H.265</div><div>SNV</div><div>WDR</div><div>Coming Soon</div></div></div><div><div><div>H.265</div><div>SNV</div><div>WDR</div><div>Coming Soon</div></div></div><div><div><div>H.265</div><div>SNV</div><div>WDR</div><div>NEW</div></div></div><div><div><div>SNV</div><div>WDR</div></div></div><div><div><div>SNV</div><div>WDR</div></div></div><div></div><div></div></div>							
Model Name	IT9389-H	IT9389-HT	FD9391-EHTV	CD8371-HNTV	CD8371-HNVF2	CC8160(HS)	CC8160
Summary	5MP, 30fps, H.265/H.264/MJPEG, SNV*, WDR Pro, Smart Stream III, Smart IR	5MP, 30fps, H.265/H.264/MJPEG, Remote Focus, SNV*, WDR Pro, Smart Stream III, Smart IR II	8MP, 30fps, H.265/H.264/MJPEG, Remote Focus, SNV, WDR Pro, Smart Stream III	3MP, 20fps, H.264/MJPEG, Remote Focus, SNV*, WDR Pro, 10 m Invisible IR, Anti-ligature Design	3MP, 20fps, H.264/MJPEG, SNV*, WDR Pro, 10 m Invisible 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
Sensor Type	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2" Progressive CMOS	1/2.8" progressive CMOS	1/2.8" progressive CMOS	1/2.9" Progressive CMOS	1/2.9" Progressive CMOS
Lens Type	Fixed-focal	Vari-focal Remote Focus	Vari-focal Remote Focus	Vari-focal Remote Focus	Fixed-focal	Fixed-focal	Fixed-focal
F-number	F2.0	F1.9 ~ F2.9	F1.5 ~ F2.7	F1.6	F1.8	F1.95	F1.95
Focal Length	f = 2.8 mm [IT9389-H(2.8mm)] f = 3.6 mm [IT9389-H(3.6mm)]	f = 3.7 ~ 7.7 mm	f = 3.9 ~ 10 mm	f= 2.8 ~ 8 mm	f= 2.8 mm	f = 1.66 mm	f = 1.66 mm
Field of View	103° (H), 76° (V) [IT9389-H(2.8mm)] 76° (H), 56° (V) [IT9389-H(3.6mm)]	38° ~ 80° (H) 29° ~ 60° (V)	45° ~ 119° (H) 25° ~ 63° (V)	51° ~ 105° (H) 37° ~ 72° (V)	108° (H) 79° (V)	180° (H) 100° (V)	180° (H) 100° (V)
Auto-iris	Fixed-iris	Fixed-iris	P-iris	-	-	-	-
Day/Night	Yes	Yes	Yes	Yes	Yes	-	-
IR Illuminators	30m, IR LED*2	30m, IR LED*2	50m, IR LED*5	10 m, 940nm IR	10 m, 940nm IR	-	-
Min. Illumination	TBD	TBD	0.02 Lux @ F1.5 (Color) 0.01 Lux @ F1.5 (B/W) 0 Lux with IR illumination on	0.01 Lux @ F1.6 (Color) < 0.01 Lux @ F1.6 (B/W) 0 Lux with IR illumination on	0.01 Lux @ F1.8 (Color) < 0.01 Lux @ F1.8 (B/W) 0 Lux with IR illumination on	0.22 Lux @ F1.95 (Color)	0.22 Lux @ F1.95 (Color)
Max. Video Resolution	2560x1920 (5MP)	2560x1920 (5MP)	3840x2160 (8MP)	2048x1536 (3MP)	2048x1536 (3MP)	1920x1080 (2MP)	1920x1080 (2MP)
Frames per Second	30 fps @ 2560x1920	30 fps @ 2560x1920	30 fps @ 3840x2160 (WDR Pro on) 120 fps @ 1920x1080 (WDR Pro off)	20 fps @ 2048x1536	20 fps @ 2048x1536	30 fps @ 1920x1080	30 fps @ 1920x1080
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.265/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	WDR Pro	WDR Pro	WDR Enhanced	WDR Enhanced
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	VIVOCLOUD App	VIVOCLOUD App	-	VIVOCLOUD App	VIVOCLOUD App	-	-
Trend Micro IoT Security	Yes	Yes	Yes	Yes	Yes	-	Yes
Power Input	PoE	PoE	AC 24V DC 12V PoE	DC12V AC24V PoE	DC12V AC24V PoE	PoE	PoE
Power Consumption	Max. 9 W	Max. 9 W	Max. 25 W	Max. 6.2 W	Max. 6.2 W	Max. 2.01 W	Max. 2.01 W
Digital Input / Output	-	-	1/1	1/1	1/1	-	-
Audio	One-way Audio	One-way Audio	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	-	One-way Audio
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	IP66, IK08	IP66, IK08	IP66, IP67, IK10 (Metal housing), NEMA 4X	IP67, IK10+	IP67, IK10+	-	-
Dimensions	Ø 108 x 79 mm	Ø 108 x 79 mm	121 x 121 x 394 mm (w/ junction box) 118 x 118 x 333 mm (w/o junction box)	226 x 221 x 112 mm	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)
Operating Temperature	TBD	TBD	-50°C ~ 60°C (-58°F ~ 140°F) (IR off) -50°C ~ 50°C (-58°F ~ 122°F) (IR on)	-10°C ~ 55°C (14°F~ 131°F)	-10°C ~ 55°C (14°F~ 131°F)	-10°C ~ 40°C (14°F ~ 104°F)	0°C ~ 40°C (32°F ~ 104°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

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Form Factor	180° Panoramic Cameras		360° Fisheye Cameras	360° Fisheye Cameras			
Video Resolution	3 Megapixel		5 Megapixel	5 Megapixel			
<div><div><div>SNV WDR</div></div><div><div>SNV WDR</div></div><div></div><div><div>H.265 WDR</div></div><div><div>H.265 WDR</div></div><div><div>H.265 WDR</div></div><div><div>H.265 WDR</div></div></div>							
Model Name	CC8370-HV	CC8371-HV	FE8182	FE9180-H	FE9181-H FE9381-EHV	FE9182-H	FE9382-EHV
Summary	3MP, 30fps, H.264/MJPEG, 180° Panoramic View, WDR Pro, SNV*	3MP, 30fps, H.264/MJPEG, 180° Panoramic View, 15 m IR, WDR Pro, SNV*	5MP, 15fps, H.264/MJPEG, 360° Surround View, Recessed-Mount, Ultra-mini Size	5MP, 15fps, H.265/H.264/MJPEG, 360° Surround View, Compact Size	5MP, 30fps, H.265/H.264/MJPEG, 360° Surround View, Smart Stream II, EN50155(FE9381-EHV)	5MP, 30fps, H.265/H.264/MJPEG, 360° Surround View, 360° 20 m IR, Smart Stream II	5MP, 30fps, H.265/H.264/MJPEG, 360° Surround View, 360° 20 m IR, Smart Stream II, EN50155
Sensor Type	1/2.8" Progressive CMOS	1/2.8" Progressive CMOS	1/3.2" progressive CMOS	1/2.7" 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	F2.0	F2.2	F2.0	F2.25	F2.2	F2.2	F2.2
Focal Length	f = 1.6 mm	f = 1.45 mm	f = 1.05 mm	f = 1.16 mm	f = 1.47 mm	f = 1.47 mm	f = 1.47 mm
Field of View	180° (H) 130° (V)	180° (H) 120° (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	Yes
IR Illuminators	-	15 m	-	-	-	20 m, IR LED*6	20 m, IR LED*6
Min. Illumination	0.05 Lux @ F2.0 (Color)	<0.07 Lux @ F2.2 (Color) <0.001 Lux @ F2.2 (B/W) 0 Lux with IR illumination on	0.6 Lux @ F2.0 (Color)	0.25 Lux @ F2.25 (Color), 50IRE 0.13 Lux @ F2.25 (Color), 30IRE	0.18 Lux @ F2.2 (Color) 0.001 Lux @ F2.2 (B/W)	0.18 Lux @ F2.2 (Color) 0.001 Lux @ F2.2 (B/W) 0 Lux with IR illumination on	0.18 Lux @ F2.2 (Color) 0.001 Lux @ F2.2 (B/W) 0 Lux with IR illumination on
Max. Video Resolution	2048x1536 (3MP)	2048x1536 (3MP)	1920x1920	1920x1920	1920x1920	1920x1920	1920x1920
Frames per Second	30 fps @ 2048x1536	30 fps @ 2048x1536	15 fps @ 1920x1920	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)	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)
Multiple Streams	3 Streams	3 Streams	3 Streams	4 Streams	4 Streams	4 Streams	4 Streams
WDR Technology*	WDR Pro	WDR Pro	WDR Enhanced	WDR Pro	WDR Pro	WDR Pro	WDR Pro
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App
Trend Micro IoT Security	Yes	Yes	-	-	-	-	-
Power Input	PoE	PoE	PoE	PoE	DC 12V PoE	DC 12V PoE	DC 12V PoE
Power Consumption	Max. 4.9 W	Max. 11.3 W	Max. 3 W	Max. 3.6 W	FE9181-H: Max. 5.5 W FE9381-EHV: Max. 13 W	Max. 12.95 W	Max. 20 W
Digital Input / Output	-	-	-	-	1/1	1/1	1/1
Audio	One-way Audio	One-way Audio	One-way Audio	One-way Audio	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)
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 (FE9381-EHV)	-	IP66, IK10
Dimensions	115 (D) x 65 (W) x 59 (H) mm	160 (D) x 72 (W) x 60 (H) mm	Ø 60 x 102 mm	Ø 94 x 39 mm	Ø 139 x 38 mm (FE9181-H) Ø 145 x 50 mm (FE9381-EHV)	Ø160 x 39 mm	Ø160 x 51 mm
Operating Temperature	-20°C ~ 50°C (-4°F ~ 122°F)	-20°C ~ 50°C (-4°F ~ 122°F)	-10°C ~ 40°C (14°F ~ 104°F)	-10°C ~ 50°C (14°F ~ 122°F)	-10°C ~ 50°C (14°F ~ 122°F) (FE9181-H) -40°C ~ 55°C (-40°F ~ 131°F) (FE9381-EHV)	-10°C ~ 50°C (14°F ~ 122°F)	-40°C ~ 55°C (-40°F ~ 131°F)

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Network Cameras

Network Cameras








Form Factor	360° Fisheye Cameras			Multi-Sensor Cameras			
Video Resolution	5 Megapixel	12 Megapixel		8 Megapixel	12 Megapixel		20 Megapixel
							
							
Model Name	FE9582-EHNV	FE9191	FE9391-EV	MS9390-HV	MS8391-EV	MA8391-ETV	MA9321-EHTV
Summary	5MP, 30fps, H.265/H.264/MJPEG, 360° Surround View, 360° 10 m IR, Smart Stream III, EN50155, EN45545, M12 Connector	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	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	12MP, 7fps, H.264/MJPEG, Remote Focus, SNV*, IP66, IK10, Multi-Directional	20MP, 30fps, H.265/H.264/MJPEG, Remote Focus, SNV*, IP66, IK10, Multi-Directional
Sensor Type	1/1.8" Progressive CMOS in 3096x2094	1/1.7" Progressive CMOS in 4000x3000	1/1.7" Progressive CMOS in 4000x3000	1/2.7" Progressive CMOS	1/2.8" Progressive CMOS	1/2.8" Progressive CMOS	1/2.7" Progressice CMOS
Lens Type	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Vari-focal Remote Focus	Vari-focal Remote Focus
F-number	F2.2	F2.2	F2.2	F1.2	F1.6	F1.6	F1.9 ~ F2.9
Focal Length	f = 1.47 mm	f = 1.29 mm	f = 1.29 mm	f = 2.8 mm	f = 6 mm	f = 2.8 ~ 8 mm	f = 3.7 ~ 7.7 mm
Field of View	180° (H) 180° (V)	180° (H) 180° (V)	180° (H) 180° (V)	180° (H) 68° (V)	180° (H) 34° (V)	51° ~ 105° (H) 37° ~ 72° (V)	40.2° ~ 88.8° (H) 28.6° ~ 59.8° (V)
Auto-iris	-	-	-	-	-	-	-
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR Illuminators	10 m, IR LED*6	-	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 Lux with IR illumination on	0.18 Lux @ F2.2 (Color) <0.001 Lux @ F2.2 (B/W)	0.18 Lux @ F2.2 (Color) <0.001 Lux @ F2.2 (B/W) 0 Lux with IR illumination on	0.05 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) 0 Lux with IR illumination on	0.23 Lux @ F1.6 (Color) 0.01 Lux @ F1.6 (B/W)	0.095 Lux @ F1.9 (Color) 0.005 Lux @ F1.9 (B/W)
Max. Video Resolution	1920x1920	2816x2816	2816x2816	4512x1728	7552x1416	2048x1536 (3MP) x 4	2688x1920 (5MP) x 4
Frames per Second	H.265/H.264: 30 fps @ 1920x1920 MJPEG: 12 fps @ 1920x1920	20 fps @ 2816x2816	20 fps @ 2816x2816	30 fps @ 4512x1728	7 fps @ 7552x1416	7 fps @ 2048x1536	30 fps @ 2688x1920
Video Compression	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Dual-Codec (H.264/MJPEG)	Triple-Codec (H.265/H.264/MJPEG)
Multiple Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams	3 Streams
WDR Technology*	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Enhanced	WDR Enhanced	WDR Pro
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	VIVOCLOUD App	-	-	-	-	-	-
Trend Micro IoT Security	-	Yes	Yes	Yes	-	-	-
Power Input	DC 12V PoE	DC 12V PoE	DC 12V PoE	PoE	AC 24V PoE	AC 24V PoE	AC 24V PoE
Power Consumption	Max. 20 W	Max. 6.49 W	Max. 25 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)	Max. 24 W	Max. 24 W
Digital Input / Output	1/1	1/1	1/1	-	1/1	1/1	1/1
Audio	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	One-way Audio	Two-way Audio (full duplex)	One-way Audio	Two-way Audio (full duplex)
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	IP66, IK10	IP66, IK10	IP66, IK10
Dimensions	Ø160 x 51 mm	Ø 139 x 37 mm	Ø 160 x 62 mm	Ø 165 x 112 x 97 mm (w/o sunshield) Ø 165 x 119 x 100 mm (w/ sunshield)	Ø 130 x 123 x 275 mm	Ø 210 x 111 mm Ø 210 x 97 mm (w/o cover plate)	Ø 210 x 111 mm Ø 210 x 97 mm (w/o cover plate)
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)	-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)	-40°C ~ 55°C (-40°F ~ 131°F)	-40°C ~ 50°C (-40°F ~ 122°F)

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Network Cameras

Network Cameras








Form Factor	Mobile Dome Cameras			Mobile Dome Cameras			
Video Resolution	1.2 Megapixel	2 Megapixel		2 Megapixel		5 Megapixel	
							
	WDR	WDR	WDR	WDR		H.265 WDR Coming Soon	H.265 WDR Coming Soon
Model Name	MD8531H	MD8563-DEH	MD8563-EH	MD8564-EH	MD8565-N	MD9561-H	MD9581-H
Summary	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, 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	2MP, 30fps, H.264/MJPEG, Invisible IR, IP66, IK10, NEMA 4X, EN50155 T1, M12 Connector	2MP, 60fps, 20m IR, H265/H264/MJPEG4, 3DNR, WDR Pro, IP67, IK10, NEMA 4X, EN50155	5MP, 30fps, 20m IR, H265/H264/MJPEG4, 3DNR, WDR Pro, IP67, IK10, NEMA 4X, EN50155
Sensor Type	1/3" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.7" Progressive CMOS	1/2.9" Progressive CMOS	1/2.8" Progressive CMOS	1/2.7" Progressive CMOS
Lens Type	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal
F-number	F1.8	F1.8 [MD8563-DEH(2.8mm)] F2.0 [MD8563-DEH(3.6mm)]	F1.8 [MD8563-EH(2.8mm)] F1.6 [MD8563-EH(4mm)]	F2.0	F1.8 [MD8565-N(2.8mm)] F2.1 [MD8565-N(3.6mm)]	F1.8 [MD9561-H(2.8mm)] F2.0 [MD9561-H(3.6mm)]	F1.8 [MD9581-H(2.8mm)] F2.0 [MD9581-H(3.6mm)]
Focal Length	f = 3.6 mm (MD8531H-F3) f = 4.2 mm (MD8531H-F4)	f = 2.8 mm [MD8563-DEH(2.8mm)] f = 3.6 mm [MD8563-DEH(3.6mm)]	f = 2.8 mm [MD8563-EH(2.8mm)] f = 4 mm [MD8563-EH(4mm)]	f = 6 mm (optional: 3.6 mm, 8 mm)	f = 2.8 mm [MD8565-N(2.8mm)] f = 3.6 mm [MD8565-N(3.6mm)]	f = 2.8 mm [MD9561-H(2.8mm)] f = 3.6 mm [MD9561-H(3.6mm)]	f = 2.8 mm [MD9581-H(2.8mm)] f = 3.6 mm [MD9581-H(3.6mm)]
Field of View	80° (H), 57° (V) [MD8531H-F3] 68° (H), 50° (V) [MD8531H-F4]	114° (H), 65° (V) [MD8563-DEH(2.8mm)] 96° (H), 53° (V) [MD8563-DEH(3.6mm)]	114° (H), 65° (V) [MD8563-EH(2.8mm)] 82° (H), 46° (V) [MD8563-EH(4mm)]	57° (H) 30° (V)	113°(H), 63°(V) [MD8565-N(2.8mm)] 77°(H), 41°(V) [MD8565-N(3.6mm)]	112° (H), 63° (V)[MD9561-H(2.8mm)] 93° (H), 49° (V) [MD9561-H(3.6mm)]	102° (H), 76° (V)[MD9581-H(2.8mm)] 83° (H), 61° (V) [MD9581-H(3.6mm)]
Auto-iris	-	-	-	-	-	-	-
Day/Night	-	Yes	Yes	Yes	Yes	Yes	Yes
IR Illuminators	-	-	-	30 m, IR LED*4	10 m, IR LED*4	20 m, IR LED*2	20 m, IR LED*2
Min. Illumination	0.4 Lux @ F1.8 (Color)	MD8563-DEH(2.8mm): 0.21 Lux @ F1.8 (Color) MD8563-DEH(3.6mm): 0.23 Lux @ F2.0 (Color)	MD8563-EH(2.8mm): 0.21 Lux @ F1.8 (Color) MD8563-EH(4mm): 0.23 Lux @ F1.6 (Color)	0.18 Lux @ F2.0 (Color) 0.01 Lux @ F2.0 (B/W) 0 Lux with IR illumination on	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	TBD	TBD
Max. Video Resolution	1280x960 (1.2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	2560x1920 (5MP)
Frames per Second	30 fps @ 1280x960	30 fps @ 1920x1080 45 fps @ 1280x720	30 fps @ 1920x1080 45 fps @ 1280x720	30 fps @ 1920x1080 45 fps @ 1280x720	30 fps @ 1920x1080 60 fps @ 1280x720	60 fps @ 1920x1080	30 fps @ 2560x1920
Video Compression	Triple-Codec (H.264/MJPEG/MPEG-4)	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	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams
WDR Technology*	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Enhanced	WDR Pro	WDR Pro
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	-	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App
Trend Micro IoT Security	-	Yes	Yes	Yes	Yes	Yes	Yes
Power Input	PoE	DC 8~36V	PoE	PoE (for Camera System) DC 24V (for Heater)	DC 7.5~48V PoE	PoE	PoE
Power Consumption	Max. 4.5 W	Max. 4.2 W	Max. 4.2 W	Max. 10/5.7 W (IR on/off) Heater: 50 W	Max. 5.5 W	TBD	TBD
Digital Input / Output	I/I	I/I	I/I	I/I	I/I	I/I	I/I
Audio	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	One-way Audio	One-way Audio	One-way Audio
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	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	IP67, IK10	IP67, IK10	IP6K9K/IP68, IK10+, NEMA 4X	IP66, IK10, NEMA 4X	IP67, IK10, NEMA 4X	IP67, IK10, NEMA 4X
Dimensions	129 (D) x 107 (W) x 54 (H) mm	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	Ø 110 x 57 mm	98 (D) x 110 (W) x 54 (H) mm	98 (D) x 110 (W) x 54 (H) mm
Operating Temperature	-25°C ~ 55°C (-13°F ~ 131°F)	-40°C ~ 70°C (-40°F ~ 158°F)	-40°C ~ 70°C (-40°F ~ 158°F)	-40°C ~ 70°C (-40°F ~ 158°F)	-25°C ~ 55°C (-13°F ~ 131°F)	-40°C ~ 55°C (-40°F ~ 131°F)	-40°C ~ 55°C (-40°F ~ 131°F)

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Network Cameras

Network Cameras










Form Factor	Speed Dome Cameras				Speed Dome Cameras		
Video Resolution	2 Megapixel				2 Megapixel		
	 <div>H.265 WDR</div>	 <div>H.265 WDR</div>	 <div>H.265 WDR</div>	 <div>H.265 WDR</div>	 <div>H.265 WDR NEW</div>	 <div>H.265 WDR</div>	 <div>H.265 WDR</div>
Model Name	SD9161-H	SD9361-EHL	SD9362-EH SD9362-EHL	SD9363-EHL-v2	SD9364-EH-v2 SD9364-EHL-v2	SD9365-EHL	SD9366-EH SD9366-EHL
Summary	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, H.265/H.264/MJPEG, 150 m IR, 20x, WDR Pro, Smart IR II, Smart Stream II, IP66, NEMA 4X	2MP, 60fps, 150/250 m IR, H.265/H.264/MJPEG, 30x, WDR Pro, Smart IR II, Smart Stream II, IP66, NEMA 4X	2MP, 60fps, H.265/H.264/MJPEG, 150 m IR, 20x, WDR Pro, Smart IR II, Smart Stream II, IP66, NEMA 4X, Wiper	2MP, 60fps, 150/250 m IR, H.265/H.264/MJPEG, 30x, WDR Pro, Smart IR II, Smart Stream II, IP66, NEMA 4X, Wiper
Sensor Type	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 (-EH-v2) 1/3" Progressive CMOS (-EHL-v2)	1/3" Progressive CMOS	1/2.8" Progressive CMOS (SD9366-EH) 1/3" Progressive CMOS (SD9366-EHL)
Lens Type	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	30x Optical Zoom Auto Focus
F-number	F1.6 ~ F1.8	F1.6 ~ F3.5	F1.6 ~ F4.7	F1.6 ~ F3.5	F1.6 ~ F4.7	F1.6 ~ F3.5	F1.6 ~ F4.7
Focal Length	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	f= 4.3 ~ 129 mm
Field of View	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) (-EH-v2) 2° ~ 59° (H), 2° ~ 45° (V) (-EHL-v2)	3° ~ 55° (H) 2° ~ 33° (V)	2.3° ~ 64° (H) 1.3° ~ 36° (V)
Auto-iris	DC-iris	DC-iris	DC-iris	DC-iris	DC-iris	DC-iris	DC-iris
Day/Night	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IR Illuminators	-	-	-	150 m	250 m (-EH-v2) 150 m (-EHL-v2)	150 m	250 m (SD9366-EH) 150 m (SD9366-EHL)
Min. Illumination	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-v2: 0.07 Lux @ F1.6 (Color) 0.01 Lux @ F1.6 (B/W) 0 Lux with IR illumination on SD9364-EHL-v2: 0.42 Lux @ F1.6 (Color) 0.01 Lux @ F1.6 (B/W) 0 Lux with IR illumination on	0.26 Lux @ F1.6 (Color) 0.01 Lux @ F1.6 (B/W) 0 Lux with IR illumination on	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
Max. Video Resolution	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)	1920x1080 (2MP)
Frames per Second	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	H.265 & H.264: 60 fps @ 1920x1080 MJPEG: 30 fps @ 1920x1080
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	4 Streams	4 Streams	4 Streams	4 Streams	4 Streams
WDR Technology*	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro
3DNR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cloud Service	-	-	-	VIVOCLOUD App	-	-	-
Trend Micro IoT Security	-	-	-	-	Yes	-	-
Power Input	PoE DC 24V AC 24V	60W UPoE DC 24V AC 24V	60W UPoE DC 24V AC 24V	95W PoH/PoE DC 24V AC 24V	95W PoH/PoE DC 24V AC 24V	95W PoH/PoE DC 24V AC 24V	95W PoH/PoE DC 24V AC 24V
Power Consumption	Max. 15 W	Max. 48/26 W (Heater on/off)	Max. 48/26 W (Heater on/off)	PoH/PoE (95W): Max. 70/51 W (Heater on/off) DC 24V/AC 24V: Max. 63/45 W (Heater on/off)	PoH/PoE (95W): Max. 70/51 W (Heater on/off) DC 24V/AC 24V: Max. 63/45 W (Heater on/off)	PoH/PoE (95W): Max. 70/51 W (Heater on/off) DC 24V/AC 24V: Max. 63/45 W (Heater on/off)	PoH/PoE (95W): Max. 70/51 W (Heater on/off) DC 24V/AC 24V: Max. 63/45 W (Heater on/off)
Digital Input / Output	4/2	4/2	4/2	4/2	4/2	4/2	4/2
Audio	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)	Two-way Audio (full duplex)
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	-	IP68, IK10, NEMA 4X	IP68, IK10, NEMA 4X	IP66, IK10, NEMA 4X	IP66, IK10, NEMA 4X	IP66, IK10, NEMA 4X	IP66, IK10, NEMA 4X
Dimensions	Ø 172 x 157 mm	Ø 162 x 221 mm	Ø 162 x 221 mm	237 x 364 mm	237 x 364 mm	237 x 364 mm	237 x 364 mm
Operating Temperature	-10°C ~ 55°C (14°F ~ 131°F)	-40°C ~ 55°C (-40°F ~ 131°F)	-40°C ~ 55°C (-40°F ~ 131°F)	-40°C ~ 55°C (-40°F ~ 131°F) -50°C ~ 55°C (-58°F ~ 131°F) (AC 24V/ PoH)	-40°C ~ 55°C (-40°F ~ 131°F) -50°C ~ 55°C (-58°F ~ 131°F) (AC 24V/ PoH)	-40°C ~ 55°C (-40°F ~ 131°F) -50°C ~ 55°C (-58°F ~ 131°F) (AC 24V/ PoH)	-40°C ~ 55°C (-40°F ~ 131°F) -50°C ~ 55°C (-58°F ~ 131°F) (AC 24V/ PoH)

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Network Cameras

Network Cameras

Form Factor	Mini Cameras		Split-type Camera System	Split-type Camera System			
Video Resolution	2 Megapixel			2 Megapixel	1 Megapixel	1&5 Megapixel	5 Megapixel
	 	 	 	 	 	 	 
Model Name	IB8360 IB8360-W	IP8160 IP8160-W	VC8101 CU8161-H	VC8101 CU8163-H	VC8201-M11 (with CU8131x2)	VC8201-M13 (with CU8131+CU8171)	VC8201-M33 (with CU8171x2)
Summary	2MP, 30fps, H.264/MJPEG, 12 m IR, SNV*, Wi-Fi (IB8360-W), Compact Size	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	1/2.9" Progressive CMOS	1/2.9" Progressive CMOS	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	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal	Fixed-focal
F-number	F2.0	F1.8	F2.5	F2.0	F1.8	F1.8 (CU8131) F2.0 (CU8171)	F2.0
Focal Length	f = 3.6 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	89° (H) 46° (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	-	-	-	-	-	-	-
Day/Night	Yes	Yes	-	-	-	-	-
IR Illuminators	12 m, IR LED*10	8 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	0.07 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	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	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	3 Streams	3 Streams	4 Streams	4 Streams	3 Streams	3 Streams	3 Streams
WDR Technology*	WDR Enhanced	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	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	VIVOCLOUD App	-	-	-
Trend Micro IoT Security	Yes	Yes	Yes	Yes	-	-	-
Power Input	PoE (IB8360) DC 12V 1.5A (IB8360-W)	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	Max. 6.1 W	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	-	-	1/1	1/1	2/2	2/2	2/2
Audio	-	Two-way Audio (full duplex)	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	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	-	-	-	-	-	-
Dimensions	99 x 75 x 164 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	-20°C ~ 50°C (-4°F ~ 122°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)

*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.

*I-CS: Intelligent CS-mount lenses can be used for add-on value functions, ex. remote zoom focus control, distortion correction, shading correction, etc.

Network Cameras

Network Cameras

Network Camera Model - Naming Rule

Network Camera Model - Naming Rule



1-2 nd		3 rd		4 th		4 th		5 th		6 th		7 th		8 th	
Model Category		A/V Type		VC Series - Amount of Channel		IP Camera Type		IP Camera - Video Type		Running Number		Extension/Feature		Version #	
Code	Description	NO.	Description	NO.	Description	NO.	Description	NO.	Description			NO.	Description	NO.	Description
CC	Compact Cube Camera	8	H.264 / MPEG4 / MJPEG	1~9	1~9 Channel	1	Indoor IP Camera	1	≥ 10MP CMOS Sensor			D	DC Power Input	v	1 - 99
CD	Corner Camera	9	H.265 / H.264 / MJPEG			3	Outdoor IP Camera	2	≥ 20MP CMOS Sensor			E	Extended Temperature ≤ -40°C		
CU	Camera Unit							3	≥ 30MP CMOS Sensor			H	High Dynamic Range (Wide Dynamic Range)		
FD	Fixed Dome Camera					5	Mobile Certified	4	≥ 40MP CMOS Sensor			L	Lite		
FE	Fisheye Camera							5	> 50MP CMOS Sensor			LPC	License Plate Capture		
IB	Bullet Camera							6	≥ 2.0MP CMOS Sensor			M	Manual Focal		
IP	Box Camera							7	≥ 3.0MP CMOS Sensor			N	940mm IR LED		
IT	Turret Dome Camera							8	≥ 5.0MP CMOS Sensor			P	P-Iris (Box Cameras)		
IZ	Zoom Lens Camera							9	≥ 8.0MP CMOS Sensor			T	Remote Focus i-CS (Box Cameras)		
MA	Multiple Adjustable Views Camera											V	Outdoor Vandal Proof		
MD	Mobile Dome Camera											W	Wireless		
MS	Multiple Sensor Camera														
SC	Stereo Camera														
SD	Speed Dome Camera														
TB	Thermal Bullet Camera														
VC	Video Core														

Video Servers

Type	Video Servers
Video Resolution	D1



Model Name	VS8801	VS8401	VS8100-v2
Short Highlight	8-CH, Rack-mount Design	4-CH, Rack-mount Design	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
Frames per Second	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)	Dual-Codec (H.264/MJPEG)
Multiple Streams	1 Stream	2 Streams	3 Streams
Video Source	8 Analog Camera Input	4 Analog Camera Input	1 Analog Camera Input
Video Modulation	NTSC/PAL Auto Detection	NTSC/PAL Auto Detection	NTSC/PAL Auto Detection
Audio Capability	Two-way Audio	Two-way Audio	Audio In
Audio Compression	G.711	G.711	G.726, G.711
Serial Connectors	RS485	RS485	RS485
Pan/Tilt/Zoom Control	Yes	Yes	Yes
Networking	10/100/1000 Mbps Ethernet	10/100/1000 Mbps Ethernet	10/100 Mbps Ethernet
Power Input	DC 12V AC 24V	DC 12V AC 24V	DC 12V
Power Consumption	Max. 24 W	Max. 24 W	Max. 3 W
Digital Input /Output	8/8	4/4	-
Motion Detection	Yes	Yes	Yes
On-board Storage	-	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	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°C ~ 50 °C (32°F ~ 122°F)

Video Receiver / Network Video Recorders

Type	Video Receiver	Type	Network Video Recorders
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Model Name	RX9401
Short Highlight	H.265/H.264, 16-CH Video Display, HDMI, 4K Display, Fisheye Dewarp
Operating System	Embedded Linux
Video Compression	H.265/H.264/MJPEG
Channels	Up to 16 channels
LiveView (Local) Decoding	Up to 3840x2160
Decoding Capacity	H.265/H.264: 3840x2160 @ 30 fps (1-CH) 1920x1080 @ 120 fps (4-CH) 1280x720 @ 270 fps (9-CH) 720x480 @ 480 fps (16-CH)
Local Display	HDMI output
Display 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	Shepherd
Weight	530 g
Dimensions	198 (W) x 200 (D) x 47(H) mm




Model Name	ND8212W	ND8312
Short Highlight	H.264, 4-CH Wifi + 4-CH Wired, Wifi 2.4Ghz, 1xHDD, HDMI, VIVOCLOUD	H.264, 8-CH, 1xHDD, HDMI, VIVOCLOUD
Operating System	Embedded Linux	Embedded Linux
Video Compression	H.264/MJPEG	H.264/MJPEG
Channels	Up to 4-CH Wi-Fi + 4-CH Wired	Up to 8 channels
LiveView (Local) Decoding	Up to 3840x2160	Up to 3840x2160
Decoding Capability	H.264: 3840x2160 @ 30 fps (1-CH) 1920x1080 @ 120 fps (4-CH) 1280x720 @ 240 fps (8-CH)	H.264: 3840x2160 @ 30 fps (1-CH) 1920x1080 @ 120 fps (4-CH) 1280x720 @ 240 fps (8-CH)
PoE	-	-
Recording Throughput	24 Mbps	48 Mbps
Hard Disk	3.5" SATAIII HDD*1, up to 6TB	3.5" SATAIII HDD*1, up to 6TB
RAID	-	-
Local Display	HDMI video output	HDMI video output
Display Resolution	3840x2160 1920x1080 1280x720	3840x2160 1920x1080 1280x720
Cloud Service	VIVOCLOUD App/Portal	VIVOCLOUD App/Portal
Fisheye Dewarp	Dewarping mode: 1O, 1P, 1R, 1O3R, 1O8R	Dewarping mode: 1O, 1P, 1R, 1O3R, 1O8R
Trend Micro IoT Security	-	-
Connectors	Ethernet 10/100 RJ45 *1 USB 2.0 *2	Ethernet 10/100 RJ45 *1 USB 2.0 *2
Power Input	DC 12V 3A	DC 12V 3A
Power Consumption	Max. 15.6 W	Max. 15 W
Approvals	CE, LVD, FCC, VCCI, C-Tick, MIC, NCC, BSMI	CE, LVD, FCC, VCCI, C-Tick
Installation, Management, and Maintenance	VAST, Shepherd, VIVOCLOUD (iOS/Android), iViewer (iOS/Android)	VAST, Shepherd, VIVOCLOUD (iOS/Android), iViewer (iOS/Android)
Weight	560 g	550 g
Dimensions	198 (W) x 200 (D) x 47(H) mm	198 (W) x 200 (D) x 47(H) mm

Network Video Recorders

Type	Network Video Recorders				
	 <div>H.265 4K Display</div>	 <div>H.265 4K Display</div>	 <div>H.265 4K Display NEW</div>	 <div>H.265</div>	 <div>H.265 4K Display NEW</div>
Model Name	ND9441/ND9541	ND9441P/ND9541P	ND9322P/ND9424P	NR9581/NR9681	NR9682/NR9782
Short Highlight	H.265/H.264, 16/32-CH, Dual Lan, 4xHDD, HDMI/VGA Local Display, RAID, Fisheye Dewarp, VIVOCLOUD	H.265/H.264, 16/32-CH, Dual Lan, 16 x PoE Port, PoE Management, 4xHDD, RAID, Fisheye Dewarp, VIVOCLOUD	H.265/H.264, 8/16-CH, 8/16 x PoE Port, 2xHDD, RAID, Fisheye Dewarp, VIVOCLOUD	H.265/H.264, 32/64-CH, 8xHot Swappable HDD Tray, Windows AD, Multi-stream Recording, VAST Inside, RAID, HDMI/DVI/VGA Local Display	H.265/H.264, 64/128-CH, 16xHot Swappable HDD Tray, Windows AD, Multi-stream Recording, VAST Inside, RAID, HDMI/DVI/DP Local Display
Operating System	Embedded Linux	Embedded Linux	Embedded Linux	Embedded Windows 7	Embedded Windows 7
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
Channels	Up to 16/32 channels	Up to 16/32 channels	Up to 8/16 channels	Up to 32/64 channels	Up to 64/128 channels
LiveView (Local) Decoding	Up to 4096x4096 (H.265) Up to 8192x8192 (H.264)	Up to 4096x4096 (H.265) Up to 8192x8192 (H.264)	Up to 3840x2160	Up to 8192x8192	Up to 8192x8192
Decoding Capability	H.265/H.264: 3840x2160 @ 60 fps (2-CH) 1920x1080 @ 480 fps (16-CH) 1280x720 @ 960 fps (32-CH) (ND9541)	H.265/H.264: 3840x2160 @ 60 fps (2-CH) 1920x1080 @ 480 fps (16-CH) 1280x720 @ 960 fps (32-CH) (ND9541P)	3840x2160 @ 30 fps (1-CH) 1920x1080 @ 120 fps (4-CH) 1280x720 @ 240 fps (8-CH) 720x240 @ 480 fps (16-CH) (ND9424P)	H.265/H.264: 1920x1080 @ 270 fps	H.265/H.264: 1920x1080 @ 270 fps
PoE	-	16x 802.3at/af Compliant PoE Ports (Total Max. 160W)	8/16x 802.3at/af Compliant PoE Ports (Total Max. 120W/200W)	-	-
Recording Throughput	192 Mbps	192 Mbps	96 Mbps	512 Mbps	512 Mbps
Hard Disk	3.5" SATA III HDD*4, each up to 8TB	3.5" SATA III HDD*4, each up to 8TB	3.5" SATA III HDD*2, each up to 8TB	3.5" SATA III HDD*8, each up to 10TB	3.5" SATA III HDD*16, each up to 10TB
RAID	RAID 0, 1, 5	RAID 0, 1, 5	RAID 0, 1	RAID 0, 1, 5, 6, 10	RAID 0, 1, 5, 6, 10
Local Display	HDMI/VGA video output	HDMI/VGA video output	HDMI/VGA video output	HDMI/DP/DVI/VGA video output	HDMI/DP/DVI video output
Display Resolution	3840x2160 1920x1080 1280x720	3840x2160 1920x1080 1280x720	3840x2160 1920x1080 1280x720	HDMI: 3200x2000 DP: 3200x2000 DVI/VGA: 1920x1200	HDMI: 1920x1080 DVI: 1920x1080 DP: 4096x2304
Cloud Service	VIVOCLOUD App/Portal	VIVOCLOUD App/Portal	VIVOCLOUD App/Portal	-	-
Fisheye Dewarp	Dewarping mode: 10, 1P, 1R, 1O3R, 1O8R	Dewarping mode: 10, 1P, 1R, 1O3R, 1O8R	Dewarping mode: 10, 1P, 1R, 1O3R, 1O8R	Regular: 10, 1P, 1R, 1O3R, 4R Wall Mount: 1P2R, 1P3R Ceiling/Floor Mount: 2P, 4R Pro, 1O8R	Regular: 10, 1P, 1R, 1O3R, 4R Wall Mount: 1P2R, 1P3R Ceiling/Floor Mount: 2P, 4R Pro, 1O8R
Trend Micro IoT Security	Supported	Supported	Supported	-	-
Connectors	Ethernet 10/100/1000 RJ45 *2 Alarm In *8, Alarm Out *4 USB 2.0 *2 USB 3.0 *1 Audio Output *1 Audio Input *1 (Reserved) RS485 (Reserved)	Ethernet 10/100/1000 RJ45 *2 Alarm In *8, Alarm Out *4 USB 2.0 *2 USB 3.0 *1 Audio Output *1 Audio Input *1 (Reserved) RS485 (Reserved)	Ethernet 10/100/1000 RJ45 *1 Alarm In *4, Alarm Out *1 USB 2.0 *1 USB 3.0 *1 Audio Output *1 Audio Input *1 (Reserved)	Ethernet 10/100/1000 RJ45 * 2 USB 2.0 x4 USB 3.0 x2 Microphone audio jack input x1 3.5 Line input audio jack x1 3.5 Line output audio jack x1	Ethernet 10/100/1000 RJ45 * 2 USB 2.0 x2 USB 3.0 x8 Microphone audio jack input x1 3.5 Line output audio jack x1
Power Input	DC 56V 2.32A	100~240V AC / 50~60Hz	100~240V AC / 50~60Hz	Redundant Power 100~240V AC / 50~60Hz	Redundant Power 100~240V AC / 50~60Hz
Power Consumption	Max. 120 W	Max. 260 W	Max. 170 W/250 W	Max. 740 W	Max. 550 W
Approvals	CE, LVD, FCC, VCCI, C-Tick, UL	CE, LVD, FCC, VCCI, C-Tick, UL	CE, FCC, VCCI, C-Tick, UL, CB, BSMI	CE, LVD, FCC, VCCI, C-Tick, UL	CE, FCC, VCCI, C-Tick, UL, CB
Installation, Management, and Maintenance	VAST, Shepherd, VIVOCLOUD, iViewer (iOS/Android)	VAST, Shepherd, VIVOCLOUD, iViewer (iOS/Android)	VAST, Shepherd, VIVOCLOUD, iViewer (iOS/Android)	VAST, Shepherd, iViewer (iOS/Android)	VAST, Shepherd, iViewer (iOS/Android)
Weight	3.9 kg (w/o HDD)	4.5 kg (w/o HDD)	3.16/3.21 kg (w/o HDD)	27 kg (w/o HDD)	33 kg (w/o HDD)
Dimensions	430 (W) x 400 (D) x 44.5 (H) mm	430 (W) x 400 (D) x 44.5 (H) mm	360 (W) x 311 (D) x 44 (H) mm	437 (W) x 648 (D) x 89 (H) mm	435 (W) x 540 (D) x 132 (H) mm


Network Video Recorders

Type	Mobile NVRs
	 <div>H.265 Mobile 4K Display NEW</div>
Model Name	NV9311P/ NV9411P
Short Highlight	H.265/ H.264, 8/16-CH, 8 x PoE, GNSS, Built-in G-sensor, WiFi & LTE (Optional), MIL-STD-810G
Operating System	Embedded Linux
Video Compression	H.265/H.264/MJPEG
Channels	Up to 8/16 channels
LiveView (Local) Decoding	Up to 4096x4096 (H.265) Up to 8192x8192 (H.264)
Decoding Capability	H.265/H.264: 3840x2160 @ 60 fps (2-CH) 1920x1080 @ 480 fps (16-CH) (NV9411P)
PoE	8x 802.3at/af Compliant PoE Ports (Total Max. 64W)
Recording Throughput	64 Mbps
WiFi	IEEE802.11a/b/g/n/ac (optional)
Mobile Network	LTE (optional)
GNSS	supported
Hard Disk	2.5" SATA III HDD/SSD x 1, up to 2TB
Local Display	HDMI x1, VGA x1
Display Resolution	3840x2160 1920x1080 1280x720
G Sensor	G-sensor Event
Fisheye Dewarp	Dewarping mode: 10, 1P, 1R, 1O3R, 1O8R
Trend Micro IoT Security	-
Connectors	Ethernet 10/100/1000 RJ45 *1 Alarm In *8, Alarm Out *4 USB 2.0 *3 Audio In/Out *1 RS232 (reserved)
Power Input	DC 12V~48V
Power Consumption	Max. 149W
Approvals	CE, FCC, VCCI, C-Tick, EN50155, EN61373, UL, CB, EN45545, EN50121-3-2/ EN50121-4, MIL-STD-810G
Installation, Management, and Maintenance	VAST 2, Shepherd, iViewer (iOS/Android)
Weight	4.06 kg (w/o HDD)
Dimensions	284 (W) x 230 (D) x 90 (H) mm

NVR Solution Kits

Type	NVR Solution Kits			
	WiFi NVR Solution Kit		NVR Solution Kit	
				
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 III HDD*1, up to 6TB	3.5" SATA III HDD*1, up to 6TB	3.5" SATA III HDD*1, up to 6TB	3.5" SATA 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 x 200 x 47 mm	198 x 200 x 47 mm	198 x 200 x 47 mm	198 x 200 x 47 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
Trend Micro IoT Security	Yes	Yes	Yes	Yes
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



PoE Solution

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	9600 Bytes	9600 Bytes	9600 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/at 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 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)

PoE Solution

Type	Outdoor Unmanaged PoE Switch		
	Fast Ethernet		Gigabit Ethernet
			
Model Name	AW-FET-053C-120	AW-FGT-103C-250	AW-GET-083A-120
Short Highlight	Outdoor Unmanged PoE Switch 4xFE PoE + 1xFE UTP	Outdoor Unmanaged Switch 8xFE PoE + 2xGE Combo	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
EX Mode	2 port up to 200M/10Mbps	2 port up to 200M/10Mbps	-
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	2K	4K	8K
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	255 (W) x 200 (H) x 90 (D) mm	316 (W) x 246 (H) x 118 (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

PoE Solution

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
EX Mode	-	-
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	8K	8K
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

PoE Solution

Type	Industrial VivoCam L2+ Managed PoE Switch
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Model	AW-IHT-1271
Short Highlight	Industrial VivoCam L2+ Managed PoE Switch 8xGE PoE + 4xGE SFP
Ethernet	
10M/100M/1G RJ45 PoE Port	8/Per Port up to 30W
100M/1G SFP	4
RJ45 Console Port	1
PoE Function	
Number of PoE Port	8
PoE Output Power	Per Port 54VDC, Max. 30W
Total PoE Power Budget	240W
Power Pin Assignment	1/2(+), 3/6(-)
PoE Management : PoE Config/Alive Checking/Scheduling/Power Delay	Supported
IEEE 802.3at/af Power over Ethernet	Supported
Ethernet Performance	
Switch Capacity	24Gbps
MAC Address	8K
Jumbo Frames	9600 Bytes
Auto-MDI/MDI-X, Auto-Negotiation	Supported
Managing IP Surveillance Management	
Auto Search VIVOTEK Device	Supported
Surveillance Management List	Supported
Easy Tag VLAN in Topology View	Supported
Managing IP Surveillance E-MAP View	
Topology View	Supported
Floor View	Supported
Google Map View	Supported
Managing IP Surveillance Maintenance	
VIVOTEK Camera Configuration File Export/Import	Supported
Traffic Monitoring	Supported
L2 Switching Feature	
IEEE 802.1p Quality of Service	Supported
IEEE 802.1q Tag based VLAN	Supported
IEEE 802.1d/w/S STP/RSTP/MSTP	Supported
IEEE 802.3ad Link Aggregation Control Protocol	Supported
IEEE 802.1X Authorization	Supported
L3 Switching Feature	
IP Host Table	Supported
Static Route (IPv4/IPv6)	Supported
Static ARP	Supported
DHCP Server	Supported
General	
Power Input	PW1: 48 ~ 57VDC PW2: 48 ~ 57VDC Redundant Power Backup
Surge Protection	Per port 6KV
Dimensions	62 (W) x 135 (H) x 130 (D) mm
Operating Temperature	-40°C ~ 75°C (-40°F ~ 167°F)

PoE Solution

Type	VivoCam L2+ Managed PoE Switch	
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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	9600 Bytes	9600 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 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)

PoE Solution

VivoCam Web Smart Managed PoE Switch			10G L2+ Managed Switch	Unmanaged FE PoE Switch		
						
Model	AW-GEV-1048-130	AW-GEV-1848-250	AW-GEV-2648-370	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 PoESwitch /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-GEU-080A-250
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	2xGE 60W UPoE + 4xGE PoE 30W + 2xGE Switch, Power Budget 240W
Unmanaged GE PoE Switch			PoE Injector			
						
Model	AW-GET-100A-120	AW-GET-180A-250	AW-GET-260A-380	AP-FIC-010A-015	AP-GIC-010A-030	AP-GIC-011A-060
Description	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 802.3af 30W PoE Injector	Indoor 1xGE 60W High Power UPoE Injector
PoE Injector		PoE Extender				
						
Model	AP-GIC-011A-095	AP-GIC-015B-095	AP-FXC-0110	AP-FXC-0210	AP-FXC-0400	AP-FXC-0160
Description	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	Outdoor 1-Port FE PoE Extender 30W/60W/95W, IP67, IK10

PoE Solution

PoE Extender	Indoor EPoC Extender					Outdoor EPoC Extender
						
Model	AP-FXC-0260	AP-FEX-0105-R	AP-FEX-0100-R	AP-FEX-0105-T	AP-FEX-0200-T	AP-FEX-0150-T
Description	Outdoor 2-Port FE PoE Extender 30W/60W/95W, IP67, IK10	EPoC Rx module, 1xFE RJ45, 1x BNC Port, 1x DC Jack	EPoC PoE in Rx module, 1xFE RJ45, 1x BNC Port	EPoC Tx module, 1xFE RJ45, 1x BNC Port, 1x DC Jack, 1 PoE on/off dip switch	EPoC Tx Module, 1x BNC, 2x FE RJ45, -20°C~60°C	EPoC Outdoor Tx Module, 1x BNC, 1x FE RJ45, -40°C~60°C, IP67, IK10
Outdoor EPoC Extender		Unmanaged EPoC Switch	Industrial Unmanaged PoE Switch			
						
Model	AP-FEX-0250-T	AW-FCT-050A-250	AW-IHT-0200	AW-IHU-0200	AW-IHH-0200	AW-IHT-0800
Description	EPoC Outdoor Tx Module, 1x BNC, 2x FE RJ45, -40°C~60°C, IP67, IK10	EPoC 4 x FE BNC Port + 1 x GE RJ45 switch/Per Port Max. 60W, Power Budget 250W	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 4xGE PoE + 2xGE UTP + 2xGE SFP Switch / Per Port Max. 30W, Power Budget 120W
Industrial Unmanaged PoE Switch					Industrial PoE Injector	
						
Model	AW-IHH-0800	AW-IHT-1000	AW-IHT-0601	AW-IHT-0602	AW-IHT-0100	AW-IHU-0100
Description	Industrial 4xGE 95W PoH/PoE + 2xGE UTP + 2xGE SFP Switch /Per Port Max. 95W, Power Budget 240W	Industrial 8xGE PoE + 2xGE SFP Switch /Per Port Max. 30W, Power Budget 240W	Industrial 4xGE PoE + 1xGE Combo + 1xGE SFP Switch /Per Port Max. 30W, Power Budget: 24V DC ~ 56V DC: 120 W, 12V DC: 65 W	Industrial EN50155 4xFE M12 PoE + 2xFE M12 Switch / Per Port Max. 30W, Power Budget 120W	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

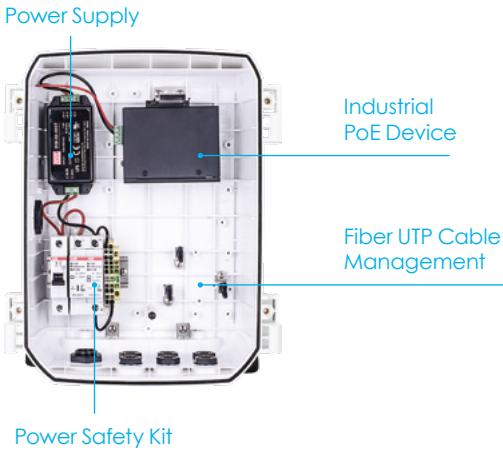
Cabinet Accessories						
						
Model Name	AT-SWH-002	AT-PSP-001	AT-WPC-001	AT-WPC-002	AM-314	AM-414
Description	Door open/close detection switch	PoE surge protector	M16 cable gland for 4~7mm AWG	M16 cable gland for corrugated tubing : 5/16"	Pole mount adapter	Corner mount adapter



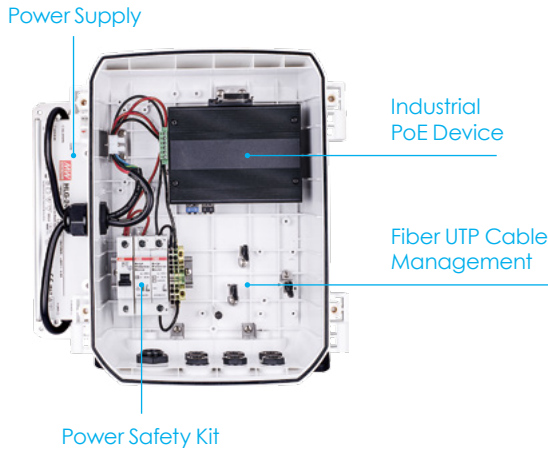
AT-CAB-001



AT-CAS-001



AT-CAB-001/AT-CAS-001



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

PoE Accessories







Industrial DIN-Rail Power Supply					Industrial Wall mount Power Supply	
						
Model Name	MDR-10-12	NDR-75-48	NDR-120-48	NDR-240-48	HLG-60H-24	HLG-80H-24
Description	Indoor Industrial Din Rail Power Supply, 12VDC/10W, -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/60W, -40°C ~ 70°C, IP67	Outdoor Industrial Power Supply, 24VDC/80W, -40°C ~ 70°C, IP67







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







Industrial Wall Mount Power Supply		Outdoor Power Box	SFP Transceiver			
						
Model Name	HLG-240H-54	AA-351/352	SFP-1000-MM85-X5	SFP-1000-MM13-02	SFP-1000-SM13-10	SFP-1000-SM13-40
Description	Outdoor Industrial Power Supply, 54VDC/240W, -40°C ~ 70°C, IP67	Outdoor IP67, IK10, 24VAC/6A, -40°C ~ 60°C	1.25G Multi-Mode SFP, 850nm, 0.5KM, 0°C ~ 70°C	1.25G Multi-Mode SFP, LC, 1310nm, 2KM, 0°C ~ 70°C	1.25G Single-Mode SFP, LC, 1310nm, 10KM, 0°C ~ 70°C	1.25G Single-Mode SFP, LC, 1310nm, 40KM, 0°C ~ 70°C







SFP Transceiver					SFP+ Transceiver	
						
Model Name	SFP-1000-MM85-X5I	SFP-1000-MM13-02I	SFP-1000-SM13-10I/40I	SFP-1000-CPTX-X1/X1I	SFP-2000-MM85-X3	SFP-2000-SM13-10
Description	Industrial 1.25G Multi-Mode SFP, LC, 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/40KM, -40°C ~ 85°C	1000BaseT, SFP to RJ45, 100M, 0°C ~ 70°C / -40°C ~ 85°C	10G Multi-Mode SFP+, LC, 850nm, 0.3KM, 0°C ~ 70°C	10G Single-Mode SFP+, LC, 1310nm, 10KM, 0°C ~ 70°C

Accessories

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-216	AM-218	AM-21A/AM21-B	AM-21G	AM-21C	AM-21D/AM-21E
Description	Wall Mount Bracket (15 Degree)	Wall mount bracket	L shape bracket	L shape bracket	Wall mount bracket (Indoor speed dome)	Wall bracket (Enclosures)

Mounting Kits						
						
Model Name	AM-220	AM-221	AM-231	AM-312/AM-314	AM-315	AM-412/AM-414
Description	Wall mount bracket (Outdoor speed dome)	Gooseneck bracket	Parapet mount bracket	Pole mount adapter	Pole mount adapter	Corner mount adapter

Mounting Kits						
						
Model Name	AM-514/AM-51C	AM-51D	AM-51E	AM-523	AM-526	AM-520
Description	Adapter plate	Adapting plate (4" square electrical box)	Adapting plate (90° rotation)	Adapting plate (4" square electrical box)	Pendant mount adapter (3/4" NPT)	Mounting adapter (3/4" NPT F and 1.5" PS11 M)

Accessories

Mounting Kits						
						
Model Name	AM-522	AM-525	AM-527	AM-528	AM-529	AM-52A
Description	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 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)

Mounting Kits						
						
Model Name	AM-52B	AM-52C	AM6101	AM6102	AM-611	AM-612
Description	Mounting Adapter (3/4" NPT Female Connector)	Mounting adapter (1/2" NPT F Connector)	Wall Mount Kit for VS8401/VS8801	Rack Mount Kit for VS8401/VS8801	Rack mount fixed bracket for NVR	Rack mount rails for NVR

Mounting Kits					Enclosures	
						
Model Name	AM-712	AM-713	AM-718	AM-719	AE-238	AE-239
Description	Conduit box	Conduit box (Water-proof)	Junction box	Junction box (Bullet)	Value series enclosure 24VAC/VDC input, IP68, IK10	Value series enclosure, PoE input, IP68, IK10

Enclosures						
						
Model Name	AE-243	AE-244	AE-23A	AE-23B	AE-23C	AE-23D
Description	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	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

Accessories

Enclosures		WaterTank	IR Illuminators for AE-23x Enclosures			
						
Model Name	AE-23E	AE-23F	AE-301	AI-106	AI-108	AI-109
Description	Supreme series enclosure, optional VAIR illuminator, PoE input, IP68, IK10	Supreme series enclosure, wiper, optional VAIR illuminator, PoE input, IP66, IK10	10L, low level alarm pump control via DIDO 0 °C~60 °C [for SD9365-EHL, SD9366-EH(L)]	VAIR illuminator 6W for Supreme series enclosure, adjustable beam angle 10°~40°, 40~100M, -40 °C~50 °C	VAIR illuminator 24W for Supreme series enclosure, adjustable beam angle 10°~30°, 70~200M, -40 °C~50 °C	VAIR illuminator 48W for Supreme series enclosure, adjustable beam angle 10°~30°, 150~350M, -40 °C~50 °C
Covers						CaMate IR Illuminators
						
						
						
						
						
Model Name	AC-215	AC-221	AC-224	AC-227	AC-229	CM32 Series
Description	Smoked cover (Indoor speed dome)	Smoked cover for FD8166A, FD8166A-N	Smoked cover (Indoor fixed dome)	Transparent cover for CU8131, FD816C(A)-HF2	IK10 Transparent cover for recessed-mount cameras	32W, 12 pcs IR LED, 850nm, 10° or 35°
CaMate IR Illuminators			CaMate IR Accessories			
						
						
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 Accessories						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 alignment	Remote control	CS mount, 3.1~8mm, F1.2, DC-Iris, 1/2.7"



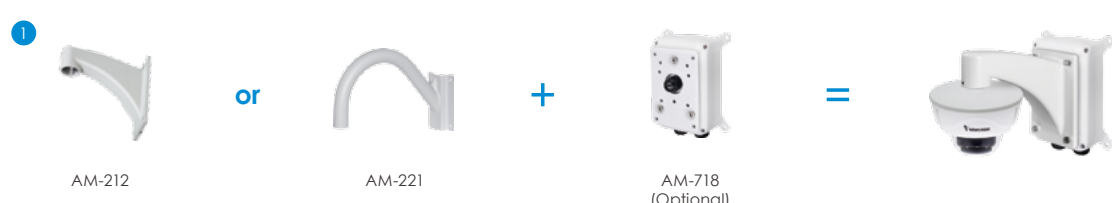

Accessories

Lenses						
						
						
						
						
						
						
Model Name	AL-237	AL-239	AL-242	AL-243	AL-246	AL-247
Description	CS mount, 4.1~9mm, F1.6, DC-iris, 1/1.8"	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"	CS mount, 2.8~8mm, F1.2, P-iris, 1/3"
Lenses						
						
						
						
						
						
						
Model Name	AL-248	AL-24A	AL-24B	AL-24D	AL-24E	AL-251
Description	CS mount, 12~50mm, F1.8, P-iris, 1/1.7"	CS mount, 12~40mm, F1.8, P-iris, 1/1.8"	CS mount, 3.6~17mm, F1.5, P-iris, 1/1.8"	C Mount, 25~135mm, F1.8, P-iris, 1/1.8"	CS Mount, 3.9~10mm, F1.5, P-iris, 1/1.8"	CS-Mount, 3.9~10mm, F1.5, i-CS, 1/1.8"
Lenses	Power Adapters		Connector	Joystick	Cable	
						
Model Name	AL-252	AA-221	AA-231	AN3000	AJ-001/AJ-002	AO-002
Description	CS-Mount, 9 ~ 50mm, F1.5~1.6, i-CS, 1/1.8"	DC 12V 1.5A power adapter	DC 12V 2.5A power adapter	Outdoor Ethernet waterproof connector	8/29-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	FD8182 Series FD9165(67)-(H)T FD9171(81)-HT FD8177-HT FD9187 Series	FD8167A FD8169A FD8177-H FD8179-H FD9189 Series	FE9181-H FE9191	FE9182-H
Ceiling Mount	 AM-105		•			
L-Shape Wall Mount	 AM-21A		•	•		
	 AM-21B	•				
Adapter Plate	 AM-514		•		•	
	 AM-51C					•
	 AM-51D			•		
	 AM-51E	•				
	 AM-520				•	•

Mounting Installation




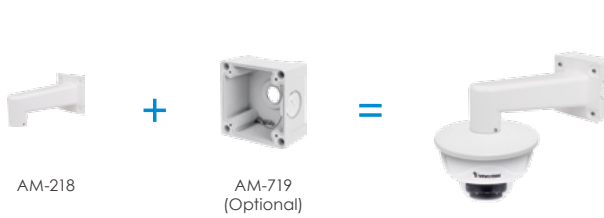


Indoor		Fixed Dome / 360° Cameras				
						
Application	Model	FD8166A Series	FD8182 Series FD9165(67)-(H)T FD9171(81)-HT FD8177-HT FD9187 Series	FD8167A FD8169A FD8177-H FD8179-H FD9189 Series	FE9181-H FE9191	FE9182-H
Mounting Adapter/ Conduit Box	 AM-52C				•	
	 AM-527		•			
	 AM-528			•		
	 AM-712 + AM-522	•	•			
Pendant Mount*	 AM-116/117 + AM-118 =					
Wall Mount*	 1 AM-212 or AM-221 + AM-718 (Optional) =					
	 2 AM-218 + AM-719 (Optional) =					

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

Mounting Installation










Outdoor		Fixed Dome / 360° Cameras				
						
Application	Model	FD8366-V	FD8377-T Series FD8382 Series FD9365(67) Series FD9371(81) Series	FD9387 Series FD9391-EHTV	FD8367A-V FD8369A-V FD8377-HV FD8379-HV FD9389 Series	FE9381(82)-EHV FE9391-EV FE9582-EHNV
L-Shape Wall Mount	 AM-21A		•	•	•	
	 AM-21G	•				
Adapter Plate	 AM-51C		•	•		
	 AM-51D				•	
	 AM-51E	•				
	 Inbox Plate					•
						•
Mounting Adapter/ Conduit Box	 AM-520					•
	 AM-525		•	•		
	 AM-528				•	
	 AM-712 AM-522		•	•		

Mounting Installation




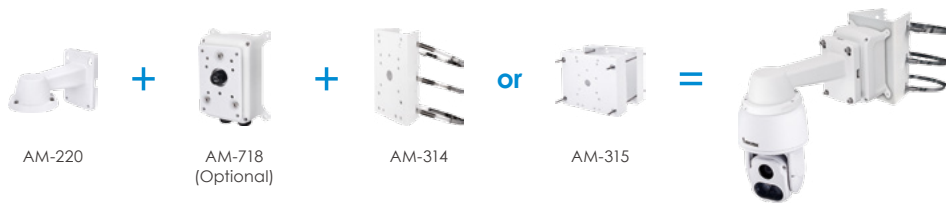




Outdoor		Fixed Dome / 360° Cameras				
						
Application	Model	FD8366-V	FD8377-T Series FD8382 Series FD9365(67) Series FD9371(81) Series	FD9387 Series FD9391-EHTV	FD8367A-V FD8369A-V FD8377-HV FD8379-HV FD9389 Series	FE9381(82)-EHV FE9391-EV FE9582-EHNV
Pendant Mount*	 AM-116/117 AM-114					
Wall Mount*	 AM-212 AM-221 AM-718 (Optional)					
	 AM-218 AM-719 (Optional)					
Pole Mount*	 AM-212 AM-221 AM-718 (Optional) AM-314 AM-315					
	 AM-218 AM-719 (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.









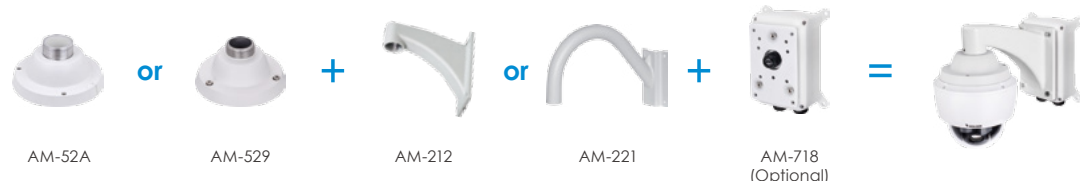
Mounting Installation

Outdoor		Speed Dome Cameras		
				
Application	Model	SD9361-EHL SD9362-EH(L)	SD9363-EHL-v2 SD9364-EH(L)-v2	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	<div>①</div>  AM-220 + AM-718 (Optional) =			
	<div>②</div>  AM-529 + AM-212 or AM-221 + AM-718 (Optional) =			



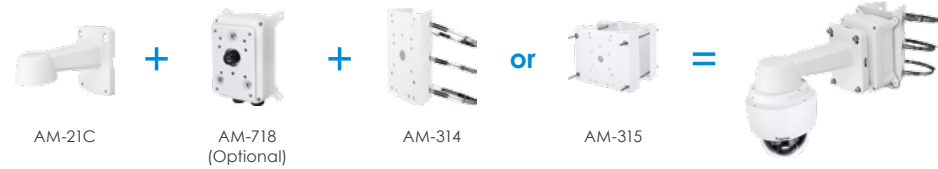



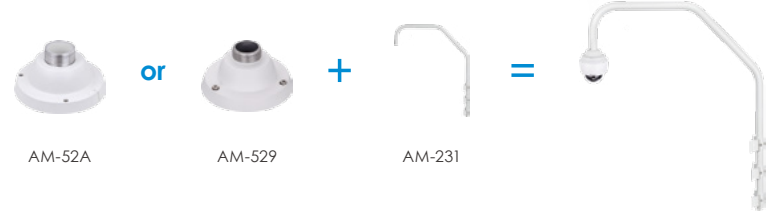
Mounting Installation








Outdoor		Speed Dome Cameras		
				
Application	Model	SD9361-EHL SD9362-EH(L)	SD9363-EHL-v2 SD9364-EH(L)-v2	SD9365-EHL SD9366-EH(L)
Pole Mount	①			
	②			
Corner Mount	①			
	②			
Parapet Mount				

Mounting Installation

Indoor/Outdoor		Speed Dome Cameras	Multi-Sensor Cameras
			
Application	Model	SD9161-H	MA8391-ETV MA9321-EHTV
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/Outdoor		Speed Dome Cameras	Multi-Sensor Cameras
			
Application	Model	SD9161-H	MA8391-ETV MA9321-EHTV
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		

Outdoor		Bullet Cameras		Thermal Cameras	Multi-Sensor Cameras
					
Application	Model	IB8377-T Series IB8382 Series IB9365(67) Series IB9371(81) Series IB9387 Series IB9391-EHT	IB8367A IB8369A IB8377-H IB8379-H IB9389 Series	TB9330-E TB9331-E	MS8391-EV
Pole Mount Adapter	 AM-312	•	•	•	•
Corner Mount Adapter	 AM-412	•	•	•	•
Adapter Plate	 AM-523		•		
Junction Box	 AM-719	•			

* 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

Change the Way You Experience VMS

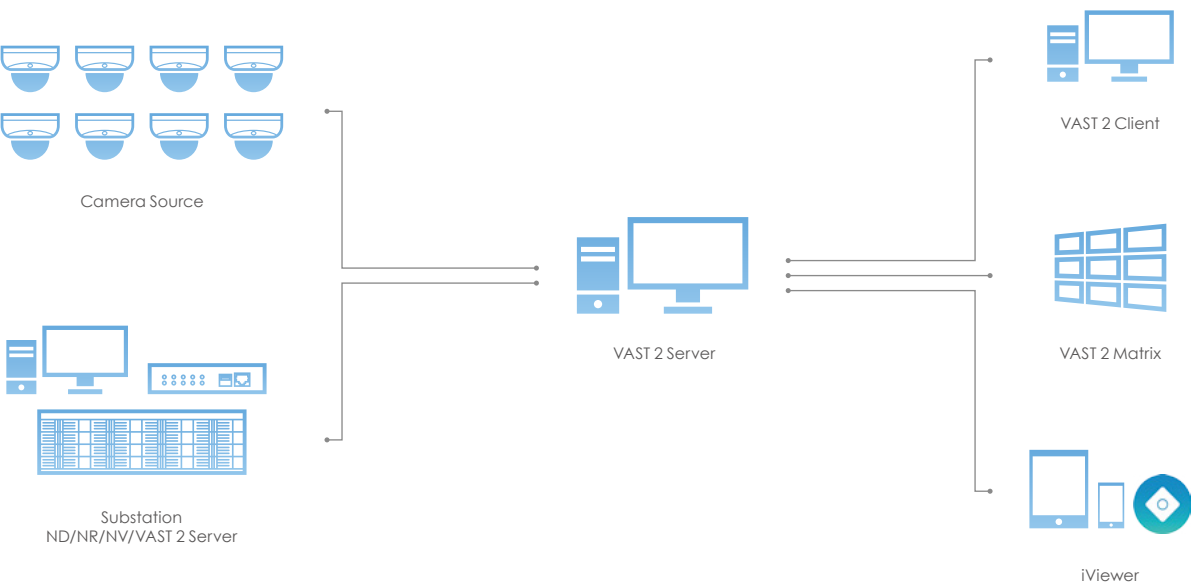
VIVOTEK's VAST 2 is an easy to use IP video management software (VMS). To meet users' real-world needs, it comes with exciting advancements such as easy operation on single or multiple monitors; a custom layout to fit both corridor and panorama format; and rapid export of multi-channel video and acquired VCA analytics with integrated cameras. To efficiently solve users' problems and any systemic issues, VAST 2 provides an automatic problem feedback mechanism directly connected to VIVOTEK's FAE system. Any feedback will be addressed instantly.

Utilizing automatic configuration wizards, VAST 2 can significantly reduce the time and cost of installing



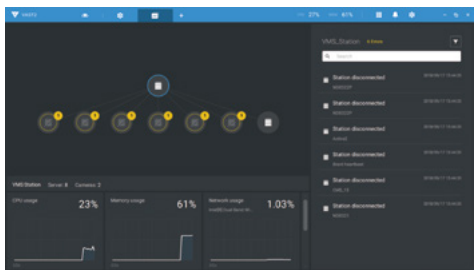
ONVIF

multiple camera surveillance systems. With more advanced setup features such as a logic tree, camera configuration, archive management and recording schedule backup solutions, VAST 2 provides an easy and intuitive UI with rich functionality to meet the needs of any customer. For efficient video management, VAST 2 also provides multi-layered, interactive 2.5D maps, and sophisticated alarm management. Furthermore, add-on solutions include failover protection, a transportation solution with GPS coordinates, transaction solutions with POS integration and Data Magnet integration solutions. All of these features combine to make VAST 2 the perfect VMS for use in retail, banking, transportation, and industrial applications.



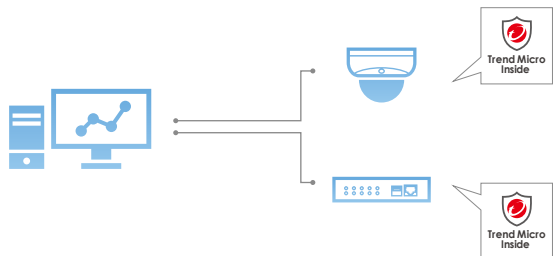
System Monitoring

Monitor server/client system easily with the dashboard feature.



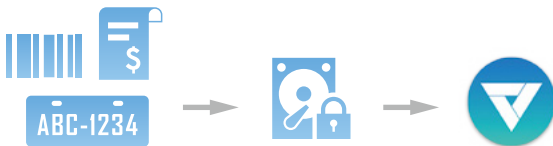
Cyber Protection

VAST 2 integrates and enhances cameras and NVRs to bring high security and robust network surveillance to your systems and data.



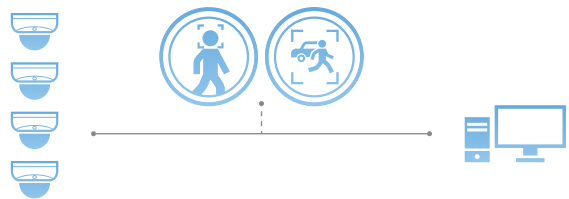
Data Magnet

Data Magnet offers the capability to integrate third-party data source into VAST 2, which provides quick access to data along with video. This supports simultaneous display with live event monitoring. All events will be stored for later searches.



Powerful Smart Search

New Smart Search supports the searching of analyzed data from smart VCA cameras. It enhances performance over traditional methods, and reserves more computing power for video analysis.



Backup & Recovery

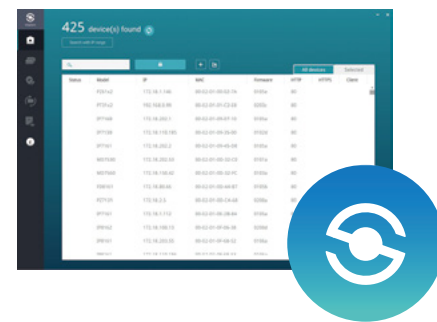
Keep your data safe with scheduled backup recordings. This failover feature allows users to stably operate work stations even when the connection is broken.



Application Software

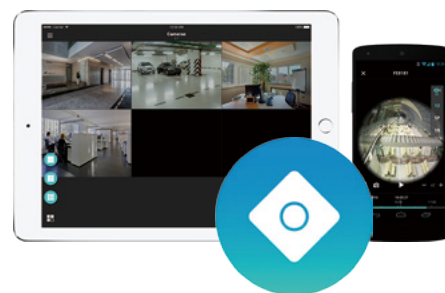
Shepherd

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.



Design Tool

IPVS Design Tool

VIVOTEK has integrated with JVS (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 service designed exclusively for SMB users. The cross-platform service is built with AWS, can be accessed with iOS and Android devices, and also supports web-based portals on both Windows and MAC. VIVOCLOUD supports easy connection with VIVOTEK's ND series NVRs and cloud-based IP cameras. With the Share-Device function just a few simple steps will make it extremely easy to scale your system according to changing needs.

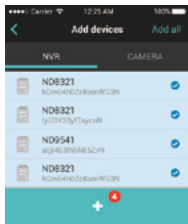
VIVOCLOUD supports push notifications from cameras or NVRs alarms, and users can also manually check recorded clips remotely. The VIVOCLOUD service was fully tested by a third-party security firm in accordance with the OWASP Testing Guide, and is guaranteed to provide robust security across a range of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



Easy Access with Cross Platform

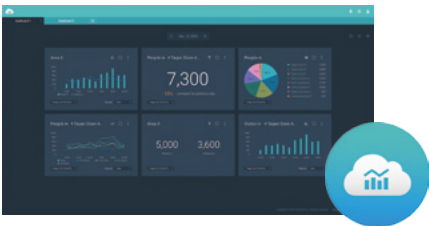
Along with Android and iOS app, VIVOCLOUD supports various web browsers including Internet Explorer 11, Firefox and Google Chrome, both on Windows and MAC.



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

VIVOCLOUD Retail

VIVOCLOUD now includes support for counting cameras and counting data storage with new ND9322P and ND9424P NVRs. With VIVOCLOUD Retail, VIVOCLOUD users can now build customized reports to track store performance. VIVOCLOUD Retail supports up to 2 years of free edge data storage, providing the best way to track long-term performance and streamline your business to maximize potential.



Connect Comprehensive IP Devices

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



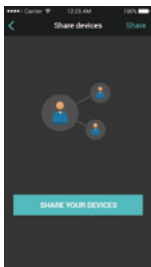
Sync Report

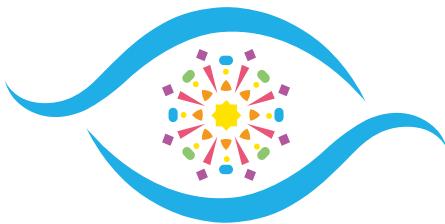
All counting report configuration details are saved in the cloud server. Users can view the latest dashboard at anytime, on any device.



Scale Your Visions with Shared Devices

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

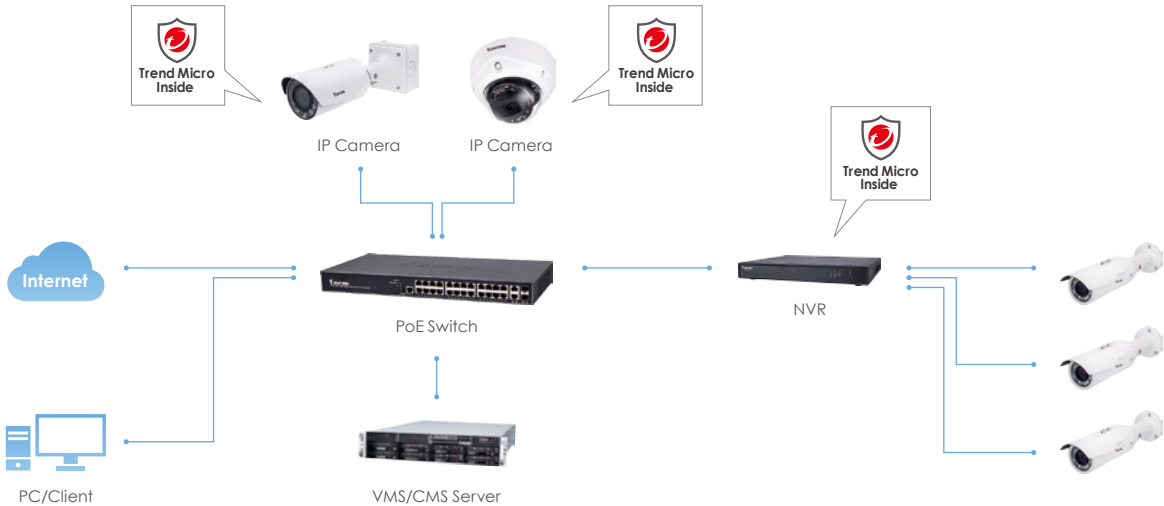




See More in Smarter Ways



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



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
 - IP66, IK10

- **FD9365-(E)HTV**
 - 60 fps @ 1920x1080
 - H.265 + Smart Stream III
 - SNV II, WDR Pro II
 - 50M IR, Smart IR II
 - Smart Motion Detection
 - IP66, IK10

- **FD9165-HT**
 - 60 fps @ 1920x1080
 - H.265 + Smart Stream III
 - SNV II, WDR Pro II
 - 50M IR, Smart IR II
 - Smart Motion Detection

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 in a time manner, effectively decreasing the spread of virus' and internal infections, letting users get back to work safely and quickly.

Multi-Layer Protection Solution for Surveillance Cameras

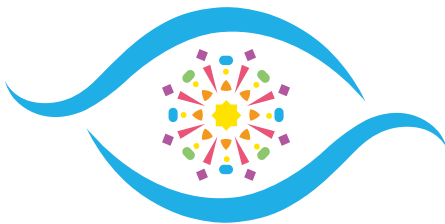


Recommended Products

- **FE9191**
 - 360° Panomorph View
 - 12MP CMOS Sensor
 - 20 fps @ 2816x2816
 - 360° 20M IR
 - WDR Pro
 - IP66, IK10

- **FE9391-EV**
 - 360° Panomorph View
 - 12MP CMOS Sensor
 - 20 fps @ 2816x2816
 - 360° 20M IR, Smart IR II
 - WDR Pro
 - 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 • 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 • Line Crossing • Intrusion Detetion • Loitering Detection • Missing/Unattended • Face Detection

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.

Stereo People Counting



SC8131

- Smart-edge Camera
- 3D Depth Technology
- High Accuracy
- Configurable Counting Rule
- Install Height: 240-360cm



SC8132/SC8133

- Smart-edge Camera
- 3D Depth Technology
- High Accuracy
- Configurable Counting Rule
- Install Height: 190-240cm
- Built-in IR LED (SC8133)

2D Counting



FD8166A

- Smart-edge Camera
- 30 fps @ 1920x1080
- SNV
- Ø 90 x 50 mm



CC8370-HV

- Smart-edge Camera
- 30 fps @ 2048x1536
- 180° Panoramic View
- SNV, WDR Pro
- IP66, IK10

Crowd Detection



FE9191/FE9391-EV

- 360° Panomorph View
- 12MP CMOS Sensor
- 20 fps @ 2816x2816
- WDR Pro
- 360° 20M IR, Smart IR II (9391)
- Trend Micro IoT Security
- IP66, IK10, EN50155 (9391)

Smart Motion Detection



IB9365-HT

- 60 fps @ 1920x1080
- H.265 + Smart Stream III
- SNV II, WDR Pro II
- 50M IR, Smart IR II
- Trend Micro IoT Security
- IP66, IK10



FD9365-(E)HTV

- 60 fps @ 1920x1080
- H.265 + Smart Stream III
- SNV II, WDR Pro II
- 50M IR, Smart IR II
- Trend Micro IoT Security
- IP66, IK10

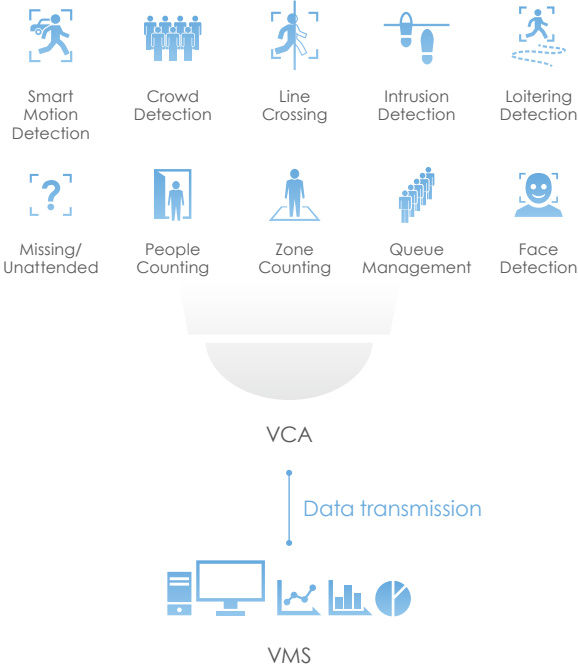


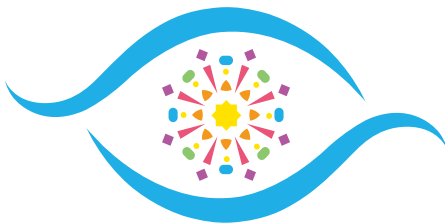
FD9391-EHTV

- 120 fps @ 1920x1080
- H.265 + Smart Stream III
- SNV II, WDR Pro II
- 50M IR, Smart IR II
- Trend Micro IoT Security
- IP66, IK10, NEMA 4X

Features

- Deep Learning AI Algorithms
- 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

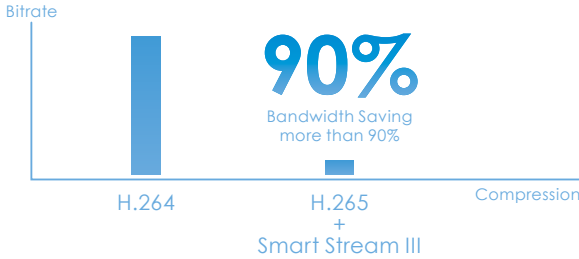




See More in Smarter Ways

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.

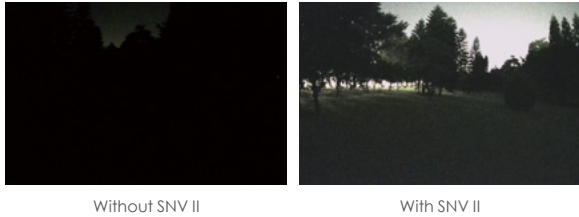


Combining both H.265 and VIVOTEK Smart Stream III, the camera can reduce bandwidth and storage consumption more than 90%* compared to traditional H.264 without smart streaming.

* 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.



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

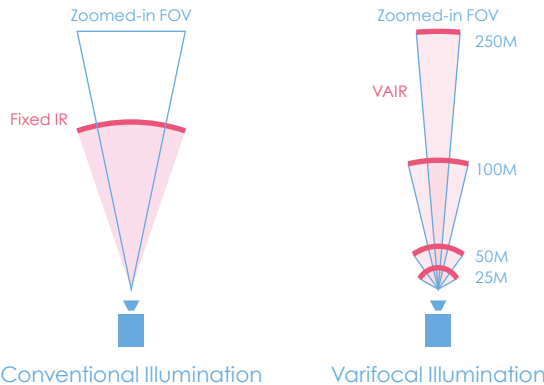


Smart IR II | Highly Uniform, Consistent Brightness and the Clearest Night Views Ever

Vari-Angle IR

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

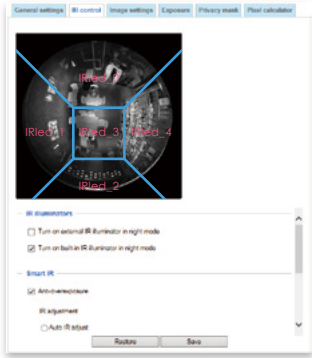
- Effortless IR angle adjustment
- Wide coverage of field of view
- No IR hot-spot issues
- Long-range IR illumination



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-v2**
- 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
- -50°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

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° 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 is instantly adjusted based on light changes in the ambient environment. (CC8371-HV)



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° Solution | One Camera, Maximum Coverage

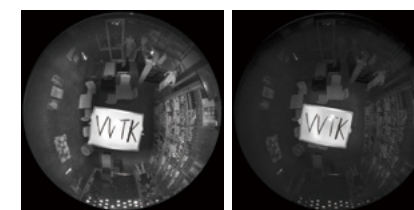
360° Surround View with Various Dewarp Modes

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.



Adaptive IR On

Adaptive IR Off

Intelligent VCA - Security Intelligence

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



Crowd Detection



Intrusion Detection



Loitering Detection

Recommended Products



FE9191

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



FE9391-EV

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



Capture Every Angle Simultaneously

Easy Installation and Management



Outdoor-ready

IP66



IK10

Recommended Products



MS9390-HV

- Dual-sensor
- 8MP Resolution
- 30 fps @ 4512x1728
- 20M IR
- SNV, WDR Pro
- IP66, IK10



MA8391-ETV

- 4 Independent Sensors (2048x1536)
- 12MP Resolution
- SNV
- IP66, IK10



MA9321-EHTV

- 4 Independent Sensors (2560x1920)
- 20MP Resolution
- 30 fps @ 2560x1920
- SNV, WDR Pro
- IP66, IK10



www.vivotek.com



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VIVOTEK Inc.

6F, No.192, Lien-Cheng Rd., Chung-Ho,
New Taipei City, 235, Taiwan
| T: +886-2-82455282 | F: +886-2-82455532
| E: sales@vivotek.com

VIVOTEK Middle East

Room 1802, P.O.Box: 61053, Jafza ONE,
Jebel Ali free zone, Dubai, UAE
| T: +971-4-8815333 | F: +971-4-8815205
| E: salesme@vivotek.com

VIVOTEK USA

2050 Ringwood Avenue,
San Jose, CA 95131
| T: 408-773-8686 | F: 408-773-8298
| E: salesusa@vivotek.com

VIVOTEK India

602, Best Sky Tower, Plot No. F-5, Netaji
Subhash Place, Pitam Pura, Delhi-110 034
| T: +91-11-45137465
| E: salesindia@vivotek.com

VIVOTEK Europe

Randstad 22-133, 1316BW Almere,
The Netherlands
| T: +31(0)36-5298-434
| E: saleseurope@vivotek.com

VIVOTEK México

Ejército Nacional N. 418 Piso 7, Oficina 711 Col. Polanco
V Sección, Delegación Miguel Hidalgo México, D.F.
| T: + 52 55 1101 1793
| E: salesmexico@vivotek.com

VIVOTEK Japan

〒 105-0011 東京都港区芝公園 2-4-1
芝パークビル A館 9階
| E: salesjp@vivotek.com