



IP VIDEO PRODUCT SELECTION

2020 Ver. H1

Network Cameras / PTZ / Thermal / NVR / Display & Control / Transmission / Accessories / Video Management Software / DORI Distance



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IP- AI

Functions

AI

1 Perimeter Protection

Further analysis is performed on detected behaviors or events, classify the human and vehicle target and automatically filter out false alarms introduced by animals, rustling leaves, bright lights, rain or snow, etc., greatly improving alarm accuracy. What's more, PTZ cameras could zoom and track on the target you want to get more details.

Lower maintenance cost, better monitoring efficiency and high accuracy & tracking performance



Animals



Rain or Snow



Bright Lights



Rustling Leaves

...



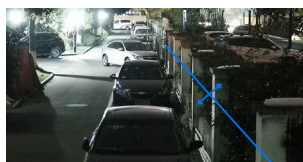
Human



Vehicle



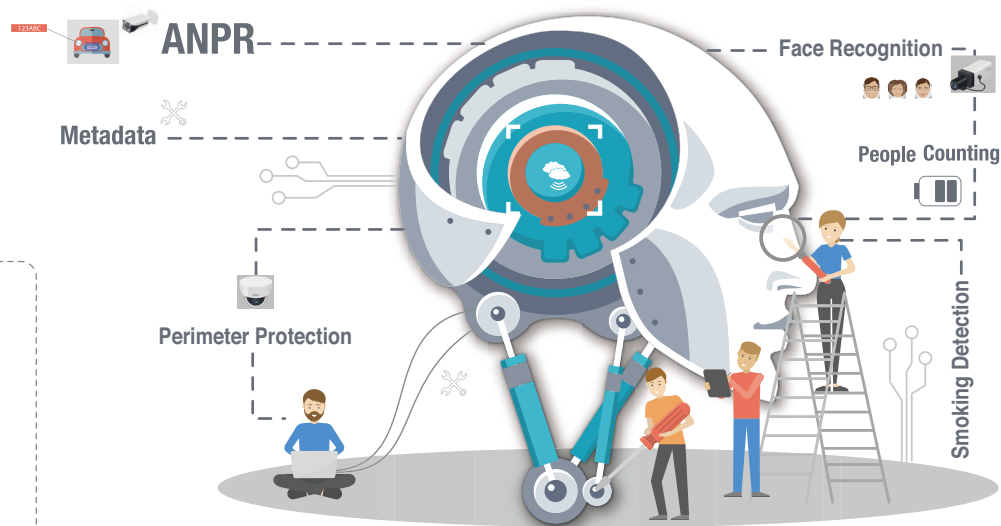
Intrusion Detection
(Visible)



Line crossing Detection
(Visible)



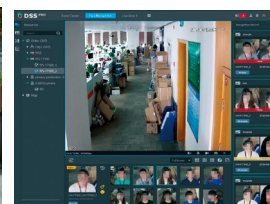
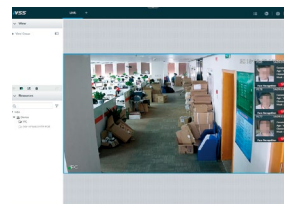
Line crossing Detection
(Thermal)



2 Face Recognition

The face recognition function can be used to determine whether faces are present in the input face image or video. Once facial features are extracted from captured faces, the human face will be modeled. Each face model is compared with face models stored in the known faces database for identification.

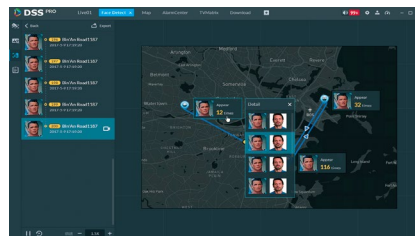
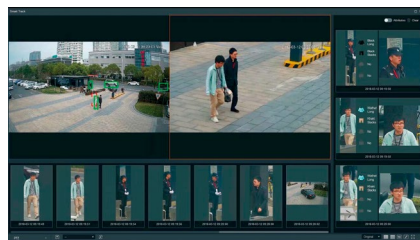
Face recognition can provide business applications such as VIP customer identification, man hunter, attendance, access control, visitor management and others.



3 Metadata

Metadata (Video Structualization) is feature attribute information extracted from a target object which can be used for data retrieval. Currently, there are four main kinds of metadata in the security industry: human face, human body, and motor vehicle and non-motor vehicle metadata. Facial information includes sex, age, glasses, masks, expressions, beards, etc. Human body information includes tops, pants, clothing color, backpacks, etc. Vehicle information includes color, model, etc. Non-motor vehicle information includes color, model, etc.

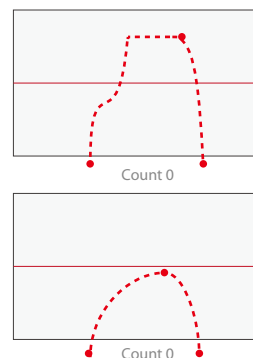
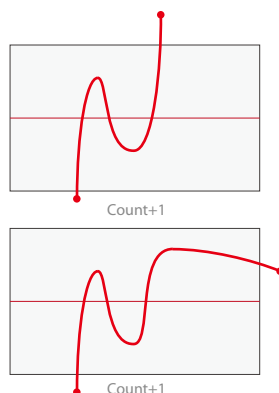
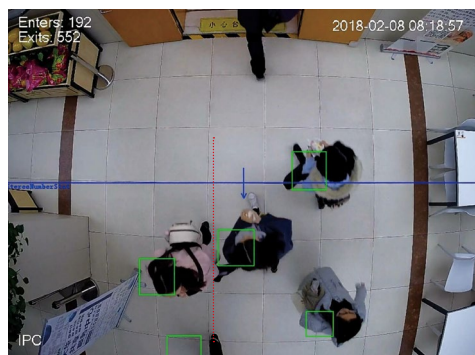
According to structured information of targets, it can output a report for analyzing. That is helpful to security management or traffic control.



4 People Counting

The number of people that enter/leave/pass some specific areas within specific time periods is counted after filtering out non-important targets (shopping carts, wandering personnel, etc.).

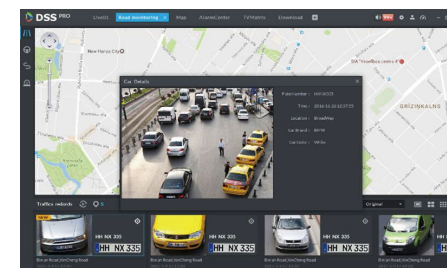
People counting can take into account both population statistics and video surveillance, which can support multi-lines and zones scenario application.



5 ANPR

ANPR (Automatic Number Plate Recognition) is a technology that uses optical character recognition on images to read license plates with high recognition accuracy. ANPR applications include toll collection, traffic monitoring and security, speed and journey time measurement, and parking and access control, etc.

ANPR can support application in gate linkage and vehicle retrieval.



6 Smoking Detection

Smoking detection is a built-in video analytics algorithm that combines with thermal imaging and visible light technology, based on Dahua Deep-learning AI algorithm to automatically detect if there is someone smoking in a detection area and to trigger an alarm.

Dahua thermal camera can provide real - time monitoring, in the use of AI technology, to automatically detect people's smoking behavior and provide intelligent voice and light warning (Loudspeaker and white light, etc.) in an effort to dissuade or correct, and avoid potential risk and loss.



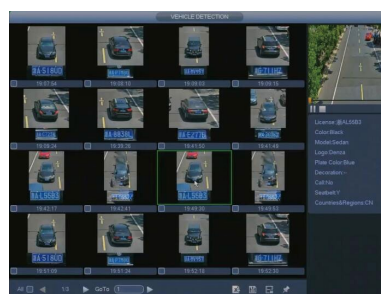
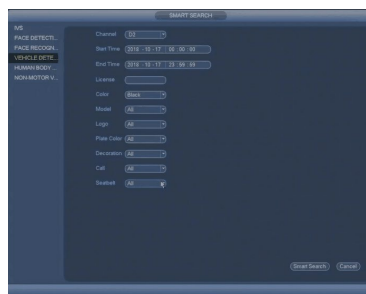
Applications

AI

1 Metadata Search

Metadata is feature attribute information extracted from the target objects, including human face, vehicle, human body, and non-motor vehicle.

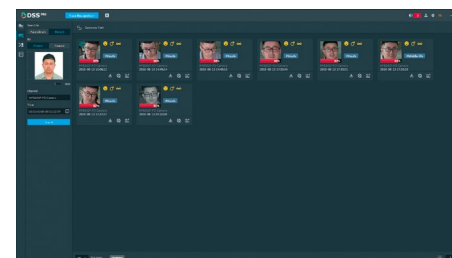
Target search with metadata, enhancing accuracy and efficiency.



2 Face Image Search

Users can upload the face images of targets to AI NVR to compare them with captured faces, so as to retrieve the relevant video and find out the targets.

Quick and handy search for a person of interest can be achieved through multi-channels and which significantly enhances accuracy and efficiency.



NETWORK CAMERAS



Panoramic Series

The panoramic series is designed for applications which require a 360° or 180° view for situational awareness. With its all-in-one design, the series is a perfect solution to replace multiple conventional cameras, reducing complexity and saving on installation and maintenance costs.

⊕ KEY FEATURES

Sensor Integration

Multiple image sensors on 1 IP address

Eyes All Around

4+1 / 8+1 sensors provide 180°/360° high definition panoramic image

Distortion-Free

Seamless splicing technology produces flawless stitched image

One Replaces Many

Replace multiple cameras, saving on installation & maintenance costs

NETWORK CAMERAS

Panoramic Series

Panoramic				
Model	IPC-PSDW81642M-A360		IPC-PSDW8842M-A180	
Appearance	  		  	
	Panoramic	PTZ	Panoramic	PTZ
Image Sensor	Eight 1/1.8" 2MP CMOS	1/1.8" 4MP CMOS	Four 1/1.8" 2MP CMOS	1/1.8" 4MP CMOS
Lens	5.0mm / F2.0	5.6~223mm / F1.3	5.0mm / F2.0	5.6~223mm / F1.3
FOV-H	360°	2°~61°	180°	2°~61°
Min. Illumination	0.01 Lux @ F2.0	0.0008 Lux @ F1.3	0.01 Lux @ F2.0	0.0008 Lux @ F1.3
Max. IR Distance	--	400m(1312ft)	--	400m(1312ft)
Day/Night	ICR		ICR	
WDR	120dB		120dB	
Video Compression	H.265/H.264/H.264B/H.264H/MJPEG		H.265/H.264/H.264B/H.264H/MJPEG	
Resolution	(8192×1800)	4MP(2560×1440)	(4096×1800)	4MP(2560×1440)
Frame Rate	30fps@(8192×1800)	30fps@(2560×1440)	30fps@(4096×1800)	30fps@(2560×1440)
Multi-streaming	3 streams		3 streams	
Pan/Tilt/Rotation	--	Pan: 0°~360°; Tilt: -20°~90° Auto flip 180°	--	Pan: 0°~360°; Tilt: -20°~90° Auto flip 180°
Intelligent Video	Tripwire, Intrusion, Scene Change, Crowd Map		Tripwire, Intrusion, Scene Change, Crowd Map	
Dewarping Mode	--		--	
Compatibility	ONVIF profile S&G, API		ONVIF profile S&G, API	
Audio In/Out	2/2		2/2	
Memory Slot	Micro SD, Max. 512GB		Micro SD, Max. 512GB	
Alarm In/Out	7/3		7/3	
Ingress Protection	IP66		IP66	
Working Temperature	-40°C ~ +70°C (-40°F ~ +158°F)		-40°C ~ +70°C (-40°F ~ +158°F)	
Power	DC36V, Max84.4W		DC36V, Max77.7W	

NETWORK CAMERAS

Panoramic Series

Panoramic

Model	IPC-PSDW5231S-B120		IPC-PSDW5631S-B360	
Appearance				
	Panoramic	PTZ	Panoramic	PTZ
Image Sensor	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	Three 1/2.7" 2MP CMOS	1/2.7" 2MP CMOS
Lens	2.0mm / F2.2	2.7mm~13.5mm / F1.8	2.0mm / F2.2	2.7mm~13.5mm / F1.8
FOV-H	136°	105.9°~33.3°	136°	105.9°~33.3°
Min. Illumination	0.03Lux/F2.2 (Color,1/3s,30IRE) 0.2Lux/F2.2 (Color,1/30s,30IRE) 0.03Lux/F2.2 (B/W,1/3s,30IRE) 0.2Lux/F2.2 (B/W,1/30s,30IRE)	0.02Lux/F1.8 (Color,1/3s,30IRE) 0.1Lux/F1.8 (Color,1/30s,30IRE) 0.02Lux/F1.8 (B/W,1/3s,30IRE) 0.2Lux/F1.8 (B/W,1/30s,30IRE)	0.03Lux/F2.2 (Color,1/3s,30IRE) 0.2Lux/F2.2 (Color,1/30s,30IRE) 0.03Lux/F2.2 (B/W,1/3s,30IRE) 0.2Lux/F2.2 (B/W,1/30s,30IRE)	0.02Lux/F1.8 (Color,1/3s,30IRE) 0.1Lux/F1.8 (Color,1/30s,30IRE) 0.02Lux/F1.8 (B/W,1/3s,30IRE) 0.2Lux/F1.8 (B/W,1/30s,30IRE)
Max. IR Distance	15m (49ft)		15m (49ft)	
Day/Night	ICR		ICR	
WDR	120dB		120dB	
Video Compression	H.265/H.264/H.264B/H.264H/MJPEG		H.265/H.264/H.264B/H.264H/MJPEG	
Resolution	1080P(1920x1080)	1080P(1920x1080)	3x(1920x1080)	1080P(1920x1080)
Frame Rate	25fps@(4096x1800)	25fps@(4096x1800)	25fps@(4096x1800)	25fps@(4096x1800)
Multi-streaming	3 streams		3 streams	
Pan/Tilt/Rotation	--	Pan: 0° ~ 355°; endless Tilt: 0° ~ 80°	--	Pan: 0° ~ 355° endless Tilt: 0° ~ 80°
Intelligent Video	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion
Dewarping Mode	--		--	
Compatibility	ONVIF Profile T, CGI		ONVIF Profile T, CGI	
Audio In/Out	1/1		1/1	
Memory Slot	Micro SD, Max. 256GB		Micro SD, Max. 256GB	
Alarm In/Out	3/2		3/2	
Ingress Protection	--		--	
Working Temperature	-10° C ~ +50° C (14° F ~ +122° F)		-10° C ~ +50° C (14° F ~ +122° F)	
Power	DC12V, Max12.7W		DC12V, Max16.1W	

NETWORK CAMERAS

Panoramic Series

Panoramic

Model	IPC-PFW8802-A180	IPC-PFW8800-A180	IPC-PFW8601-A180	IPC-PDBW8802-A180	IPC-PDBW8800-A180
Appearance	 	 	 	 	 
Image Sensor	Four 1/1.8" 2MP Sony CMOS	Four 1/2.8" 2MP STARVIS™ CMOS	Three 1/2.8" 2MP STARVIS™ CMOS	Four 1/1.8" 2MP Sony CMOS	Four 1/2.8" 2MP STARVIS™ CMOS
Lens	5.0mm/F2.2	3.0mm/F2.0	3.0mm/F2.0	5.0mm/F2.2	3.0mm/F2.0
FOV-H	180°	180°	180°	180°	180°
Min. Illumination	0.005Lux/F2.2(Color,1/3s,30IRE) 0.03Lux/F2.2(Color,1/30s,30IRE) 0Lux/F2.2(IR on)	0.007Lux/F2.0(Color,1/3s,30IRE) 0.05Lux/F2.0 (Color,1/30s,30IRE) 0Lux/F2.0(IR on)	0.007Lux/F1.8 (Color,1/3s,30IRE) 0.05Lux/F1.8(Color,1/30s,30IRE) 0Lux/F2.0(IR on)	0.005Lux/F2.2(Color,1/3s,30IRE) 0.03Lux/F2.2(Color,1/30s,30IRE) 0Lux/F2.2(IR on)	0.007Lux/F2.0(Color,1/3s,30IRE) 0.05Lux/F2.0 (Color,1/30s,30IRE) 0Lux/F2.0(IR on)
Max. IR Distance	30m(98ft)	30m(98ft)	30m(98ft)	30m(98ft)	30m(98ft)
Day/Night	ICR	ICR	ICR	ICR	ICR
WDR	120dB	DWDR	120dB	120dB	DWDR
Video Compression	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264
Resolution	4096×1800	4096×1800	4096×832	4096×1800	4096×1800
Frame Rate	25fps@(4096×1800)	25fps@(4096×1800)	30fps@(4096×832)	25fps@(4096×1800)	25fps@(4096×1800)
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~±20°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~±20°
Intelligent Video	Tripwire, Intrusion Scene Change Abandoned/Missing, Heat Map	Tripwire, Intrusion Scene Change Abandoned/Missing, Heat Map	Tripwire, Intrusion Scene Change Abandoned/Missing, Heat Map	Tripwire, Intrusion Scene Change Abandoned/Missing, Heat Map	Tripwire, Intrusion Scene Change Abandoned/Missing, Heat Map
Dewarping Mode	--	--	--	--	--
Compatibility	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API
Audio In/Out	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB
Alarm In/Out	2/2	2/2	2/1	2/2	2/2
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V PoE+ (802.3at)(Class 4) Max. 25.5W	AC12V PoE+ (802.3at)(Class 4) Max. 25.5W	AC24V PoE+ (802.3at)(Class 4) Max. 23W	AC12V PoE+ (802.3at)(Class 4) Max. 25.5W	AC24V PoE+ (802.3at)(Class 4) Max. 25.5W

Panoramic Series

Panoramic

Model	IPC-PDBW5831-B360	IPC-EBW81242	IPC-EBW8630-IVC	IPC-EB5531
Appearance	 Starlight	 4K Starlight+	 Starlight 8400V	
Image Sensor	Four 1/2.8" 2MP STARVIS™ CMOS	1/1.7" 12MP CMOS	1/1.8" 6MP STARVIS™ CMOS	1/2.7" 5MP CMOS
Lens	2.7~12mm / F1.4	1.85mm / F2.0	1.3mm / F2.8	1.4mm / F1.6
FOV-H	4*(105°~44°)	185°	180°	180°
Min. Illumination	0.005Lux/F1.8 (Color,1/3s,30IRE) 0.06Lux/1.8 (Color,1/30s,30IRE) 0Lux/F1.8 (IR on)	0.001Lux/F2.0 (Color,1/3s,30IRE) 0.01Lux/F2.0 (Color,1/30s,30IRE) 0Lux/F2.0 (IR on)	0.005Lux / F2.8 (Color,1/3s,30IRE) 0.05Lux / F2.8 (Color,1/30s,30IRE) 0Lux / F2.0 (IR on)	0.02Lux/F1.6 (Color,1/3s,30IRE) 0.2Lux/F1.6 (Color,1/30s,30IRE) 0.05Lux/F1.6 (B/W,1/3s,30IRE) 0.5Lux/F1.6 (B/W,1/30s,30IRE)
Max. IR Distance	30m (98ft)	10m(33ft)	10m(33ft)	--
Day/Night	ICR	ICR	ICR	Electronic
WDR	120dB (1 channel)	DWDR	DWDR	120dB
Video Compression	H.265+/H.265 H.264+/H.264	H.265/H.264/H.264B H.264H/MJPEG	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264
Resolution	4x1080P(1920x1080)	12M(4000x3000)	6MP(3072x2048)	5MP(2592x1944)
Frame Rate	30fps@1080P(1920x1080)	30fps@12MP (4000x3000)	30fps@6MP	20fps@5MP, 30fps@3MP
Multi-streaming	4x2 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~80° Rotation: 0°~355°	--	--	--
Intelligent Video	Tripwire, Intrusion, Scene Change Abandoned / Missing	Tripwire, Intrusion Heat map	Tripwire, Intrusion Heat map	Tripwire, Intrusion Heat map
Dewarping Mode	--	1O;2P;1R;1P+3R;2R 1O+2R;1O+3R;4R;1O+4R 1P+6R;1O+8R	1O; 1P+3R; 2R 1O+2R; 1O+3R; 4R 1O+4R; 1P+6R; 1O+8R	1O; 1P+3R; 2R 1O+2R; 1O+3R; 4R 1O+4R; 1P+6R; 1O+8R
Compatibility	ONVIF profile S&G, API	ONVIF profile S&G,API	ONVIF profile S&G, API	ONVIF profile S&G, API
Audio In/Out	1/1	1/1,Built-in Mic	1/1, Built-in Mic	Built-in Mic
Memory Slot	Micro SD, Max. 128GB	Micro SD,Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB
Alarm In/Out	1/1	2/2	2/2	--
Ingress Protection	IP67, IK10	IP67,IK10	IP67, IK10	IP67,IK08
Working Temperature	30°C~+60°C(-40°F ~ +140°F)	-30°C~+45°C (-22°F~+113°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)
Power	AC24V PoE+ (802.3at)(Class 4) Max. 25.5W	DC12V PoE (802.3af)(Class 4) Max. 12.9W	DC12V PoE (802.3af)(Class 0) Max. 12W	DC12V PoE (802.3af)(Class 0) Max. 3.4W

Special Series

Special series of products are rich in variety, pinhole camera, corner camera and anti-oil camera. This series can provide suitable products for special industries.

⊕ KEY FEATURES

Pinhole Camera

Easy installation
optimized image
highly flexible

Corner Camera

IK10+50J protection
No IR exposure
Super wide angle

NETWORK CAMERAS

Special Series

Special Series		
Pinhole Camera		
Model	IPC-HUM8431-E1*	IPC-HUM8431-L1*
Appearance		 
Image Sensor	--	1/2.7" 4MP CMOS
Lens	--	2.8mm / F2.4
FOV-H	--	H:83.4°
Min. Illumination	--	0.02Lux/F2.4 (Color,1/3s,30IRE) 0.08Lux/F2.4 (Color,1/30s,30IRE) 0.01Lux/F2.4 (B/W,1/3s,30IRE) 0.04Lux/F2.4 (B/W,1/30s,30IRE)
Day/Night	Electronic	--
WDR	120dB	--
Max. IR Distance	--	--
Video Compression	H.265+/H.265 H.264+/H.264	--
Max. Resolution	4MP(2688×1520)	--
Frame Rate	30fps@4MP	--
Multi-streaming	3 streams	--
Pan/Tilt/Rotation	--	--
Intelligent Video	Tripwire, Intrusion Scene Change Abandoned/Missing Face Detection	--
Compatibility	ONVIF profile S&G, API	--
Audio In/Out	1/1	--
Memory Slot	Micro SD, Max. 128GB	--
Alarm In/Out	2/2	--
Ingress Protection	--	--
Working Temperature	-30°C~+60°C(-22°F~+140°F)	--
Power	DC12V, PoE (802.3af) (Class 0),Max. 6W	--

*Unit and sensor are separate

*Pinhole will work only the resolution is the same

NETWORK CAMERAS

Special Series

	Pinhole Camera				Corner Camera	Dual-Lens Camera
Model	IPC-HUM8231-E2*	IPC-HUM8231-E1*	IPC-HUM8231-L1*	IPC-HUM4231	IPC-HCBW8442	IPC-HDW8341X-3D
Appearance				 	 	 
Image Sensor	--	--	1/2.8" 2MP STARVIS™ CMOS	1/2.7" 2MP CMOS	1/1.8" 4MP CMOS	Two 1/2.8" 3Mp STARVIS™ CMOS
Lens	--	--	2.8mm / F2.4	2.8mm / F2.4	2.5mm / F2.0	2.8mm fixed lens (3.6mm optional)
FOV-H	--	--	H:104°	H:105°	H:135°	106°/80°
Min. Illumination	--	--	0.02Lux/F2.4 (Color,1/3s,30IRE) 0.08Lux/F2.4 (Color,1/30s,30IRE) 0.01Lux/F2.4 (B/W,1/3s,30IRE) 0.04Lux/F2.4 (B/W,1/30s,30IRE)	0.007Lux/F2.4 (Color,1/3s,30IRE) 0.04Lux/F2.4 (Color,1/30s,30IRE) 0.004Lux/F2.4 (B/W,1/3s,30IRE) 0.02Lux/F2.4 (B/W,1/30s,30IRE)	0.004 Lux/F2.0 (Color, 1/3 s, 30 IRE)	0.009Lux/F1.8 (Color,1/3s,30IRE) 0.08Lux/F1.8 (Color,1/30s,30IRE) 0Lux/F1.8 (IR on)
Day/Night	Electronic	Electronic	--	Electronic	Electronic	ICR
WDR	120dB	120dB	--	120dB	140dB	120dB
Max. IR Distance	--	--	--	--	10 m (32.8 ft)	10m (33ft)
Video Compression	H.265/H.264	H.265+/H.265 H.264+/H.264	--	H.265+/H.265 H.264+/H.264	H.265; H.264; H.264H; H.264B; MJPEG support smart codec	H.265/H.264H/MJPEG
Max. Resolution	1080P(1920×1080)	1080P(1920×1080)	--	1080P(1920×1080)	4MP(2688×1520)	3MP(2048×1536)
Frame Rate	2×30fps@1080P	60fps@1080P	--	25/30fps@1080P	25/30 fps@4MP	25fps@3Mp
Multi-streaming	2×2 streams	3 streams	--	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	--	--	--	--	Vertical:-10°~+10° Rotation: 0°~355°	Tilt: -10°~70°
Intelligent Video	Tripwire, Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire, Intrusion Scene Change Abandoned/Missing Face Detection	--	Tripwire, Intrusion Scene Change Abandoned/Missing Face Detection	Perimeter Protection People Counting Heat Map	People Counting Heat Map
Compatibility	ONVIF profile S&G, API	ONVIF profile S&G, API	--	ONVIF profile S&G, API	ONVIF (Profile S/Profile G),CGI,Milestone, Genetec, P2P	ONVIF Profile S&G, API
Audio In/Out	1/1	1/1	--	1/1	1/1;Built-in MIC	2/1
Memory Slot	Micro SD, Max. 128GB	Micro SD, Max. 128GB	--	--	Micro SD, Max. 256GB	Micro SD, Max. 128GB
Alarm In/Out	2/2	2/2	--	--	1 channel in: 5mA 3V~5V DC 1 channel out: 300mA 12V DC	2 channel In: 5mA 5VDC 2 channel Out: 300mA 12VDC
Ingress Protection	--	--	--	--	IP67; IK10+50J	IP67
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	--	-30°C~+60°C (-22°F~+140°F)	-30°C to +60°C (-22°F to +140°F)	-30°C~+60°C (-22°F ~ +140°F)
Power	DC12V, PoE (802.3af) (Class 0), Max.7W	DC12V, PoE (802.3af) (Class 0), Max. 6W	--	DC12V, Max. 1.5W	DC12V, Max. 11.5W	DC12V, PoE (IEEE 802.3af), Max. 12W

Ultra AI Series

Ultra-AI series network camera supports various intelligent functions and meet users' requirements in different scenes. Adopting excellent image processing technology, this series network camera performs good in WDR and low illuminance environment. The camera provides better solution to image processing and intelligent application.

⊕ KEY FEATURES

Perfect Performance

Adopt the most advanced AI technologies including deep learning algorithms

AI Functions

Face Recognition / Face Detection / People Counting / Video Metadata / ANPR

Smart H.265+

Smart H.265+ improves efficiency more than 70% storage

Excellent Image

Ultra WDR (140 dB) / starlight provides clear image under any conditions

NETWORK CAMERAS

Ultra AI Series

Box Camera

Model	IPC-HF7842F	IPC-HF7442F	IPC-HF7442F-FR
Appearance	   	  	  
Image Sensor	1/1.8" 8MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS
Lens	C/CS	C/CS	C/CS
FOV-H	--	--	--
Min. Illumination	0.005 Lux@F1.5	0.001 Lux@F1.5	0.001 Lux@F1.5
Day/Night	ICR	ICR	ICR
WDR	120dB	140dB	140 dB
Max. IR Distance	--	--	--
Video Compression	H.265, H.264, H.264H, H.264B, MJPEG	H.265, H.264, H.264H, H.264B, MJPEG	H.265, H.264, H.264H, H.264B, MJPEG
Smart Codec	Supported	Supported	Supported
Max. Resolution	8M (3840×2160)	4M (2688×1520)	4MP(2688×1520)
Frame Rate	25/30fps@8Mp	50/60fps@4Mp	50/60fps@4Mp
Multi-streaming	5 streams	5 streams	5 streams
Pan/Tilt/Rotation	--	--	--
Compatibility	ONVIF (Profile S/Profile G/Profile T), CGI, P2P	ONVIF (Profile S/Profile G/Profile T), CGI, P2P	ONVIF (Profile S/Profile G/Profile T), CGI, P2P
Audio In/Out	2/2	2/2	2/2
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	2 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC	2 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC	2 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC
Ingress Protection	--	--	--
Working Temperature	-30°C ~ +60°C (-22°F ~ +140°F)	-30°C ~ +60°C (-22°F ~ +140°F)	-30°C ~ +60°C (-22°F ~ +140°F)
Power	12V DC/24V AC/POE, Max. 14.4W	12V DC/24V AC/POE, Max. 14.4W	12V DC/24V AC/POE, Max. 14.4W
Artificial Intelligence			
Face Detection	Supported	Supported	Supported
Face Recognition	--	--	Supported
Video Metadata	Supported	Supported	Supported
Privacy Protection	--	Supported	Supported
ANPR	Supported*	Supported*	--
Perimeter Protection	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.
People Counting	Line crossing people counting Region people counting	Line crossing people counting Region people counting	Line crossing people counting Region people counting
Behavior Analysis	--	--	--
General Intelligence			
IVS	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing

 • Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.4w
• ePoE only works with ePoE devices

* European Number Plate Recognition Customization in firmware

Ultra AI Series

Vari-Focal Bullet

Model	IPC-HFW7842H-Z	IPC-HFW7442H-Z	IPC-HFW7442H-ZFR	IPC-HFW7442H-Z4	IPC-HFW7442H-Z4FR
Appearance					
Image Sensor	1/1.8" 8MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS
Lens	2.7mm ~12mm motorized lens	2.7mm ~12mm motorized lens	2.7mm ~12mm motorized lens	8mm ~32mm motorized lens	8mm ~32mm motorized lens
FOV-H	111°~47°	114°~47°	114°~47°	43°~15°	43°~15°
Min. Illumination	0.003 Lux@F1.2	0.001 Lux@F1.2	0.001 Lux@F1.2	0.001 Lux@F1.6	0.001 Lux@F1.6
Day/Night	ICR	ICR	ICR	ICR	ICR
WDR	120dB	140dB	140 dB	140dB	140 dB
Max. IR Distance	60m (196.85 ft)	60m (196.85 ft)	60m (196.85 ft)	120 m (393.70 ft)	120 m (393.70 ft)
Video Compression	H.265, H.264, H.264H, H.264B, MJPEG	H.265, H.264, H.264H, H.264B, MJPEG	H.265, H.264, H.264H, H.264B, MJPEG	H.265, H.264, H.264H, H.264B, MJPEG	H.265, H.264, H.264H, H.264B, MJPEG
Smart Codec	Supported	Supported	Supported	Supported	Supported
Max. Resolution	8M (3840 × 2160)	4M (2688 × 1520)	4MP(2688×1520)	4M (2688 × 1520)	4MP(2688×1520)
Frame Rate	25/30fps@8Mp	50/60fps@4Mp	50/60fps@4Mp	50/60fps@4Mp	50/60fps@4Mp
Multi-streaming	5 streams	5 streams	5 streams	5 streams	5 streams
Pan/Tilt/Rotation	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°
Compatibility	ONVIF (Profile S/Profile G/Profile T),CGI,P2P	ONVIF (Profile S/Profile G/Profile T),CGI,P2P	ONVIF (Profile S/Profile G/Profile T),CGI,P2P	ONVIF (Profile S/Profile G/Profile T),CGI,P2P	ONVIF (Profile S/Profile G/Profile T),CGI,P2P
Audio In/Out	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	3 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC	3 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC	3 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC	3 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC	3 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)
Power	12V DC/24V AC/POE, Max. 17.3W	12V DC/24V AC/POE, Max. 17.3W	12V DC/24V AC/POE, Max. 17.3W	12V DC/24V AC/POE, Max. 17.3W	12V DC/24V AC/POE, Max. 17.3W
Artificial Intelligence					
Face Detection	Supported	Supported	Supported	Supported	Supported
Face Recognition	--	--	Supported	--	Supported
Video Metadata	Supported	Supported	Supported	Supported	Supported
Privacy Protection	--	Supported	Supported	Supported	Supported
ANPR	Supported*	Supported*	--	Supported*	--
Perimeter Protection	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.
People Counting	Line crossing people counting Region people counting	Line crossing people counting Region people counting	Line crossing people counting Region people counting	Line crossing people counting Region people counting	Line crossing people counting Region people counting
Behavior Analysis	--	--	--	--	--
General Intelligence					
IVS	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing

NETWORK CAMERAS

Ultra AI Series

Vari-Focal Dome

Model	IPC-HDBW7842H-Z	IPC-HDBW7442H-Z	IPC-HDBW7442H-ZFR	IPC-HDBW7442H-Z4	IPC-HDBW7442H-Z4FR
Appearance					
Image Sensor	1/1.8" 8MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS
Lens	2.7mm ~12mm motorized lens	2.7mm ~12mm motorized lens	2.7mm ~12mm motorized lens	8mm ~32mm motorized lens	8mm ~32mm motorized lens
FOV-H	111°~47.94°	114°~47°	114°~47°	43°~15°	43°~15°
Min. Illumination	0.003 Lux@F1.2	0.001 Lux@F1.2	0.001 Lux@F1.2	0.001 Lux@F1.6	0.001 Lux@F1.6
Day/Night	ICR	ICR	ICR	ICR	ICR
WDR	120dB	140dB	140 dB	140dB	140 dB
Max. IR Distance	40m(131.23 ft)	40m(131.23 ft)	40m(131.23 ft)	80 m (262.5 ft)	80 m (262.5 ft)
Video Compression	H.265, H.264, H.264H, H.264B, MJPEG	H.265, H.264, H.264H, H.264B, MJPEG	H.265, H.264, H.264H, H.264B, MJPEG	H.265, H.264, H.264H, H.264B, MJPEG	H.265, H.264, H.264H, H.264B, MJPEG
Smart Codec	Supported	Supported	Supported	Supported	Supported
Max. Resolution	8M (3840 × 2160)	4M (2688 × 1520)	4MP(2688×1520)	4M (2688 × 1520)	4MP(2688×1520)
Frame Rate	25/30fps@8Mp	50/60fps@4Mp	50/60fps@4Mp	50/60fps@4Mp	50/60fps@4Mp
Multi-streaming	5 streams	5 streams	5 streams	5 streams	5 streams
Pan/Tilt/Rotation	Pan:0°~355°; Tilt:0°~80°; Rotation:0°~355°	Pan:0°~355°; Tilt:0°~80°; Rotation:0°~355°	Pan:0°~355°; Tilt:0°~80°; Rotation:0°~355°	Pan:0°~355°; Tilt:0°~80°; Rotation:0°~355°	Pan:0°~355°; Tilt:0°~80°; Rotation:0°~355°
Compatibility	ONVIF (Profile S/Profile G/Profile T),CGI,P2P	ONVIF (Profile S/Profile G/Profile T),CGI,P2P	ONVIF (Profile S/Profile G/Profile T),CGI,P2P	ONVIF (Profile S/Profile G/Profile T),CGI,P2P	ONVIF (Profile S/Profile G/Profile T),CGI,P2P
Audio In/Out	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	3 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC	3 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC	3 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC	3 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC	3 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C ~ +60°C (-40°F ~ +140°F)
Power	12V DC/24V AC/POE, Max. 16.7W	12V DC/24V AC/POE, Max. 16.7W	12V DC/24V AC/POE, Max. 16.7W	12V DC/24V AC/POE, Max. 16.7W	12V DC/24V AC/POE, Max. 16.7W
Artificial Intelligence					
Face Detection	Supported	Supported	Supported	Supported	Supported
Face Recognition	--	--	Supported	--	Supported
Video Metadata	Supported	Supported	Supported	Supported	Supported
Privacy Protection	--	Supported	Supported	Supported	Supported
ANPR	Supported*	Supported*	--	Supported*	--
Perimeter Protection	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection, and people gathering.
People Counting	Line crossing people counting Region people counting	Line crossing people counting Region people counting	Line crossing people counting Region people counting	Line crossing people counting Region people counting	Line crossing people counting Region people counting
Behavior Analysis	--	--	--	--	--
General Intelligence					
IVS	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing

 • Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.4w
• ePoE only works with ePoE devices

* European Number Plate Recognition Customization in firmware

NETWORK CAMERAS

Pro AI Series

Pro AI series contains Face Capture, Perimeter Protection, People Counting and face metadata functions. Powered by deep-learning Artificial Intelligence algorithms, It significantly improved accuracy. Meanwhile, the series features starlight and smart IR technology.

⊕ KEY FEATURES

Face Detection

Detect high quality faces from video

Perimeter Protection

Significantly improves accuracy, reduces false alarms

People Counting

Provides statistics for separate line or area with up to 95% counting accuracy

Face Metadata

Extracts six facial attributes and output the metadata for retrieval and analysis

Pro AI Series

Box Camera

Model	IPC-HF5541E-E	IPC-HF5442E-E	IPC-HF5241E-E
Appearance	  	  	  
Image Sensor	1/2.7" 5MP CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	C/CS	C/CS	C/CS
FOV-H	--	--	--
Min. Illumination	0.005 Lux@F1.7	0.002 Lux@F1.5	0.002 Lux@F1.5
Day/Night	ICR	ICR	ICR
WDR	120dB	140dB	120dB
Max. IR Distance	--	--	--
Video Compression	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H
Smart Codec	Supported	Supported	Supported
Max. Resolution	5Mp(2592×1944)	4Mp(2688×1520)	1080P(1920×1080)
Frame Rate	20fps@5Mp	25/30fps@4Mp	25/30fps@1080P
Multi-streaming	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	--	--	--
Compatibility	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI
Audio In/Out	1/1, Built-in MIC	1/1, Built-in MIC	1/1, Built-in MIC
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	2 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC	2 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC	2 channel In: 5mA 5VDC 1 channel Out: 1A 30VDC / 0.5A 50VAC
Ingress Protection	--	--	--
Working Temperature	-30°C~-60°C(-22°F ~ +140°F)	-30°C~-60°C(-22°F ~ +140°F)	-30°C~-60°C(-22°F ~ +140°F)
Power	DC12V/AC24V, PoE (802.3af), Max. 9.2W	DC12V/AC24V, PoE (802.3af), Max. 9.2W	DC12V/AC24V, PoE (802.3af), Max. 9.5W
Artificial Intelligence			
Face Detection	Supported	Supported	Supported
Face Attributes	Support 6 kinds of face attributes extraction: Age, Gender, Expression (Jolly, Surprise, Normal, Rage, Sad, Disgusted, Confused, Frightened), Glasses, Mouth Mask, Moustache & Beard	Support 6 kinds of face attributes extraction: Age, Gender, Expression (Jolly, Surprise, Normal, Rage, Sad, Disgusted, Confused, Frightened), Glasses, Mouth Mask, Moustache & Beard	Support 6 kinds of face attributes extraction: Age, Gender, Expression (Jolly, Surprise, Normal, Rage, Sad, Disgusted, Confused, Frightened), Glasses, Mouth Mask, Moustache & Beard
Perimeter Protection	Tripwire, Intrusion(Recognition of vehicle and people), Fast moving, Loitering detection, parking detection and people gathering.		
People Counting	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection		
General Intelligence			
IVS	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map

 • Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.4w
• ePoE only works with ePoE devices

NETWORK CAMERAS

Pro AI Series

Vari-Focal Bullet

Model	IPC-HFW5842H-ZHE	IPC-HFW5541E-ZE	IPC-HFW5541E-Z5E	IPC-HFW5442E-ZE
Appearance	  	  	  	  
Image Sensor	1/1.8" 8Mp CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/1.8" 4MP CMOS
Lens	2.7~12mm motorized lens	2.7mm ~13.5mm motorized lens	7mm ~35mm motorized lens	2.7mm ~12mm motorized lens
FOV-H	114°~47°	100°~28°(2592×1944) 104°~29°(2688×1520)	31°~9°(2592×1944) 32°~9°(2688×1520)	114°~47°
Min. Illumination	0.003 Lux@F1.2	0.005 Lux@F1.5	0.003 Lux@F1.3	0.003 Lux@F1.8
Day/Night	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	140dB
Max. IR Distance	60m (196.85 ft)	50m (164ft)	120 m (394 ft)	50m (164ft)
Video Compression	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H
Smart Codec	Supported	Supported	Supported	Supported
Max. Resolution	8MP (3840×2160)	5Mp(2592×1944)	5Mp(2592×1944)	4Mp(2688×1520)
Frame Rate	25/30fps@8Mp	20fps@5Mp	20fps@5Mp	25/30fps@4Mp
Multi-streaming	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°
Compatibility	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI
Audio In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	3 channel In: 5mA 5VDC 2 channel Out: 1A 30VDC / 0.5A 50VAC	2 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	2 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	2 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-40°C~+60°C(-40°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)
Power	12V DC/24V AC/POE, Max. 17.3W	DC12V, PoE (802.3af), Max. 10.9W	DC12V, PoE (802.3af), Max. 10.9W	DC12V, PoE (802.3af), Max. 10.9W
Artificial Intelligence				
Face Detection	Supported	Supported	Supported	Supported
Face Attributes	Support 6 kinds of face attributes extraction: Age, Gender Expression, Glasses, Mouth Mask Moustache & Beard	Support 6 kinds of face attributes extraction: Age, Gender Expression, Glasses, Mouth Mask Moustache & Beard	Support 6 kinds of face attributes extraction: Age, Gender Expression, Glasses, Mouth Mask Moustache & Beard	Support 6 kinds of face attributes extraction: Age, Gender Expression, Glasses, Mouth Mask Moustache & Beard
Perimeter Protection	Tripwire, Intrusion, Fast moving (the three functions support the classification and accurate detection of vehicle and human), Parking Detection, Loitering Detection, and People Gathering.	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering
People Counting	People counting (count the entry number, exit number and pass number), display and output daily/monthly/annual statistics, No. in area	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection
General Intelligence				
IVS	Object Abandoned/Missing	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map

 • Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.4w
• ePoE only works with ePoE devices

Pro AI Series

Vari-Focal Bullet

Model	IPC-HFW5442E-Z4E	IPC-HFW5241E-ZE	IPC-HFW5241E-ZE-BLACK	IPC-HFW5241E-Z5E	IPC-HFW5241E-Z12E
Appearance					
Image Sensor	1/1.8" 4Mp CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	8 mm~32 mm motorized lens	2.7mm ~13.5mm motorized lens	2.7mm ~13.5mm motorized lens	7mm ~35mm motorized lens	5.3 mm~64.0 mm motorized lens
FOV-H	43°~15°	109°~30°	109°~30°	33°~10°	58°~4°
Min. Illumination	0.002 Lux@F1.6	0.002 Lux@F1.5	0.002 Lux@F1.5	0.0015 Lux@F1.3	0.002 Lux@F1.5
Day/Night	ICR	ICR	ICR	ICR	ICR
WDR	140dB	120dB	120dB	120dB	120dB
Max. IR Distance	120 m (394 ft)	50m (164ft)	50m (164ft)	120 m (394 ft)	150 m (492 ft)
Video Compression	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H
Smart Codec	Supported	Supported	Supported	Supported	Supported
Max. Resolution	4Mp(2688×1520)	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)
Frame Rate	25/30fps@4Mp	25/30fps@1080P	25/30fps@1080P	25/30fps@1080P	25/30fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°
Compatibility	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI
Audio In/Out	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	2 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	2 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	2 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	2 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	2 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)
Power	DC12V, PoE (802.3af), Max. 10.9W	DC12V, PoE (802.3af),Max. 10.3W	DC12V, PoE (802.3af),Max. 10.3W	DC12V, PoE (802.3af), Max. 10.3W	DC12V, PoE (802.3af), Max. 10.3W
Artificial Intelligence					
Face Detection	Supported	Supported	Supported	Supported	Supported
Face Attributes	Support 6 kinds of face attributes extraction: Age, GenderExpression, Glasses, Mouth Mask Moustache & Beard	Support 6 kinds of face attributes extraction: Age, GenderExpression, Glasses, Mouth Mask Moustache & Beard	Support 6 kinds of face attributes extraction: Age, GenderExpression, Glasses, Mouth Mask Moustache & Beard	Support 6 kinds of face attributes extraction: Age, GenderExpression, Glasses, Mouth Mask Moustache & Beard	Support 6 kinds of face attributes extraction: Age, GenderExpression, Glasses, Mouth Mask Moustache & Beard
Perimeter Protection	Tripwire, Intrusion (Human & Vehicle classification), Fast MovingLoitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast MovingLoitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast MovingLoitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast MovingLoitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast MovingLoitering Detection Parking Detection and People Gathering
People Counting	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection
General Intelligence					
IVS	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map

NETWORK CAMERAS

Pro AI Series

Vari-Focal Dome

Model	IPC-HDBW5842H-ZHE	IPC-HDBW5541E-ZE	IPC-HDBW5541E-ZSE	IPC-HDBW5442E-ZE
Appearance	    	   	   	   
Image Sensor	1/1.8" 8Mp CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/1.8" 4MP CMOS
Lens	2.7 mm~12.0mm motorized lens	2.7mm ~13.5mm motorized lens	7mm ~35mm motorized lens	2.7mm ~12mm motorized lens
FOV-H	114°~47°	100°~28°(2592×1944) ; 104°~29°(2688×1520)	31°~9°(2592×1944) ; 32°~9°(2688×1520)	114°~47°
Min. Illumination	0.003 Lux@F1.2	0.005 Lux@F1.5	0.003 Lux@F1.3	0.003 Lux@F1.8
Day/Night	ICR	ICR	ICR	ICR
WDR	120 dB	120dB	120dB	140dB
Max. IR Distance	40 m (131.23 ft)	40m (131ft)	80 m (262 ft)	40 m (131 ft)
Video Compression	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H
Smart Codec	Supported	Supported	Supported	Supported
Max. Resolution	8MP (3840×2160)	5Mp(2592×1944)	5Mp(2592×1944)	4Mp(2688×1520)
Frame Rate	25 fps/30 fps@8Mp	20fps@5Mp	20fps@5Mp	25/30fps@4Mp
Multi-streaming	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan:0°~355°; Tilt:0°~80° Rotation:0°~355°	Pan:0°~355°; Tilt:0°~65° Rotation:0°~355°	Pan:0°~355°; Tilt:0°~65° Rotation:0°~355°	Pan:0°~355°; Tilt:0°~65° Rotation:0°~355°
Compatibility	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI
Audio In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	3 channel In: 5mA 5VDC 2 channel Out: 1A 30VDC / 0.5A 50VAC	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-40°C~-60°C(-40°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)
Power	12V DC/24V AC/PoE, Max. 15.7W	DC12V/AC24V, PoE (802.3af) Max. 12.4W	DC12V/AC24V, PoE (802.3af) Max. 12.4W	DC12V/AC24V, PoE (802.3af), Max. 12.4W
Artificial Intelligence				
Face Detection	Supported	Supported	Supported	Supported
Face Attributes	Support 6 kinds of face attributes extraction: Age, Gender Expression, Glasses, Mouth Mask Moustache & Beard	Support 6 kinds of face attributes extraction: Age, Gender Expression, Glasses, Mouth Mask Moustache & Beard	Support 6 kinds of face attributes extraction: Age, Gender Expression, Glasses, Mouth Mask Moustache & Beard	Support 6 kinds of face attributes extraction: Age, Gender Expression, Glasses, Mouth Mask Moustache & Beard
Perimeter Protection	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human), parking detection, loitering detection, and People Gathering.	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering
People Counting	People counting (count the entry number, exit number and pass number), display and output daily/monthly/annual statistics, No. in area	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection
General Intelligence				
IVS	Object Abandoned/Missing	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map

-  Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.4w
- ePoE only works with ePoE devices

Pro AI Series

Vari-Focal Dome

Model	IPC-HDBW5442E-Z4E	IPC-HDBW5241E-ZE	IPC-HDBW5241E-ZE-BLACK	IPC-HDBW5241E-Z5E
Appearance	   	   	   	   
Image Sensor	1/1.8" 4Mp CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	8mm ~32mm motorized lens	2.7mm ~13.5mm motorized lens	2.7mm ~13.5mm motorized lens	7mm ~35mm motorized lens
FOV-H	43°~15°	109°~30°	109°~30°	33°~10°
Min. Illumination	0.002 Lux@F1.6	0.002 Lux@F1.5	0.002 Lux@F1.5	0.0015 Lux@F1.3
Day/Night	ICR	ICR	ICR	ICR
WDR	140dB	120dB	120dB	120dB
Max. IR Distance	80 m (262 ft)	40m (131ft)	40m (131ft)	80 m (262 ft)
Video Compression	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H
Smart Codec	Supported	Supported	Supported	Supported
Max. Resolution	4Mp(2688×1520)	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)
Frame Rate	25/30 fps@4Mp	25/30fps@1080P	25/30fps@1080P	25/30fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°	Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°	Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°	Pan:0°~355°; Tilt:0°~65°; Rotation:0°~355°
Compatibility	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI
Audio In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-30°C~-60°C(-22°F ~ +140°F)	-30°C~-60°C(-22°F ~ +140°F)	-30°C~-60°C(-22°F ~ +140°F)	-30°C~-60°C(-22°F ~ +140°F)
Power	DC12V/AC24V, PoE (802.3af), Max. 12.4W	DC12V/AC24V, PoE (802.3af),Max. 11.8W	DC12V/AC24V, PoE (802.3af),Max. 11.8W	DC12V/AC24V, PoE (802.3af), Max. 11.8W
Artificial Intelligence				
Face Detection	Supported	Supported	Supported	Supported
Face Attributes	Support 6 kinds of face attributes extraction: Age, GenderExpression, Glasses, Mouth Mask Moustache & Beard	Support 6 kinds of face attributes extraction: Age, GenderExpression, Glasses, Mouth Mask Moustache & Beard	Support 6 kinds of face attributes extraction: Age, GenderExpression, Glasses, Mouth Mask Moustache & Beard	Support 6 kinds of face attributes extraction: Age, GenderExpression, Glasses, Mouth Mask Moustache & Beard
Perimeter Protection	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering
People Counting	Support Line crossing/Region/ Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/ Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/ Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/ Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection
General Intelligence				
IVS	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map

NETWORK CAMERAS

Pro AI Series

Fixed Mini-Bullet

Model	IPC-HFW5541E-SE	IPC-HFW5442E-SE	IPC-HFW5241E-SE	IPC-HFW5541T-ASE
Appearance	 Starlight	 Starlight+	 Starlight+	 Starlight
Image Sensor	1/2.7" 5MP CMOS	1/1.8" 4MP CMOS	1/2.8" 2Mp STARVIS™ CMOS	1/2.7" 5Mp CMOS
Lens	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm, 6mm, 8mm, 12mm optional)
FOV-H	102°/84°/51°	113°/89°/56°	106°/87°/53°	102°/84°/51°/38°/25°
Min. Illumination	0.005 Lux@F1.6	0.002 Lux@F1.6	0.002 Lux@F1.6	0.005 Lux@F1.6
Day/Night	ICR	ICR	ICR	ICR
WDR	120dB	140dB	120dB	120dB
Max. IR Distance	50 m (164 ft)	50 m (164 ft)	50 m (164 ft)	80 m (262 ft)
Video Compression	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H
Smart Codec	Supported	Supported	Supported	Supported
Max. Resolution	5Mp(2592×1944)	4Mp(2688×1520)	1080P(1920×1080)	5Mp(2592×1944)
Frame Rate	20fps@5Mp	25/30fps@4Mp	25/30fps@1080P	20fps@5Mp
Multi-streaming	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan:0°~360°; Tilt:0°~90° Rotation:0°~360°	Pan:0°~360°; Tilt:0°~90° Rotation:0°~360°	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°
Compatibility	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI
Audio In/Out	--	--	--	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	--	--	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Ingress Protection	IP67	IP67	IP67	IP67, IK10
Working Temperature	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)
Power	DC12V, PoE (802.3af), Max. 6.8W	DC12V, PoE (802.3af), Max. 6.8W	DC12V, PoE (802.3af), Max. 6.8W	DC12V, PoE (802.3af), Max. 9.5W
Artificial Intelligence				
Face Detection	Supported	Supported	Supported	Supported
Face Attributes	--	--	--	--
Perimeter Protection	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering
People Counting	Support Line crossing/Region/Queueing people counting; 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting; 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting; 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting; 4 accesses independent detection, 4 areas independent detection
General Intelligence				
IVS	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map

 • Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.4w
• ePoE only works with ePoE devices

Pro AI Series

Fixed Mini-Bullet

Model	IPC-HFW5442T-ASE	IPC-HFW5241T-ASE	IPC-HFW5241T-ASE-BLACK
Appearance	 	 	 
Image Sensor	1/1.8" 4Mp CMOS	1/2.8" 2Mp STARVIS™ CMOS	1/2.8" 2Mp STARVIS™ CMOS
Lens	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm, 6mm, 8mm, 12mm optional)	2.8mm fixed lens
FOV-H	113°/89°/56°	106°/87°/53°/41°/26°	106°
Min. Illumination	0.002 Lux@F1.6	0.002 Lux@F1.6	0.002 Lux@F1.6
Day/Night	ICR	ICR	ICR
WDR	140dB	120dB	120dB
Max. IR Distance	50 m (164 ft)	80 m (262 ft)	80 m (262 ft)
Video Compression	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H
Smart Codec	Supported	Supported	Supported
Max. Resolution	4Mp(2688×1520)	1080P(1920×1080)	1080P(1920×1080)
Frame Rate	25/30fps@4Mp	25/30fps@1080P	25/30fps@1080P
Multi-streaming	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°
Compatibility	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI
Audio In/Out	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)
Power	DC12V, PoE (802.3af), Max. 9.5W	DC12V, PoE (802.3af), Max. 8.7W	DC12V, PoE (802.3af), Max. 8.7W
Artificial Intelligence			
Face Detection	Supported	Supported	Supported
Face Attributes	--	--	--
Perimeter Protection	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering
People Counting	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection
General Intelligence			
IVS	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map

NETWORK CAMERAS

Pro AI Series

Fixed Dome

Model	IPC-HDBW5541R-ASE	IPC-HDBW5442R-ASE	IPC-HDBW5241R-ASE	IPC-HDBW5241R-ASE-BLACK
Appearance	  	  	  	  
Image Sensor	1/2.7" 5Mp CMOS	1/1.8" 4Mp CMOS	1/2.8" 2Mp STARVIS™ CMOS	1/2.8" 2Mp STARVIS™ CMOS
Lens	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens
FOV-H	102°/84°/51°	113°/89°/56°	106°/87°/53°	106°
Min. Illumination	0.005 Lux@F1.6	0.002 Lux@F1.6	0.002 Lux@F1.6	0.002 Lux@F1.6
Day/Night	ICR	ICR	ICR	ICR
WDR	120dB	140dB	120dB	120dB
Max. IR Distance	50 m (164 ft)	50 m (164 ft)	50 m (164 ft)	50 m (164 ft)
Video Compression	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H
Smart Codec	Supported	Supported	Supported	Supported
Max. Resolution	5Mp(2592×1944)	4Mp(2688×1520)	1080P(1920×1080)	1080P(1920×1080)
Frame Rate	20fps@5Mp	25/30fps@4Mp	25/30fps@1080P	25/30fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan:0°~355°; Tilt:0°~75°; Rotation:0°~355°	Pan:0°~355°; Tilt:0°~75°; Rotation:0°~355°	Pan:0°~355°; Tilt:0°~75°; Rotation:0°~355°	Pan:0°~355°; Tilt:0°~75°; Rotation:0°~355°
Compatibility	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI
Audio In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)
Power	DC12V, PoE (802.3af) Max. 6W	DC12V, PoE (802.3af) Max. 6.1W	DC12V, PoE (802.3af) Max. 5.5W	DC12V, PoE (802.3af) Max. 5.5W
Artificial Intelligence				
Face Detection	Supported	Supported	Supported	Supported
Face Attributes	--	--	--	--
Perimeter Protection	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering
People Counting	Support Line crossing/Region/Queueing people counting Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting Support 4 accesses independent detection, 4 areas independent detection
General Intelligence				
IVS	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map

 • Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.4w
• ePoE only works with ePoE devices

Pro AI Series

Fixed Eyeball

Model	IPC-HDW5541TM-ASE	IPC-HDW5442TM-ASE	IPC-HDW5241TM-ASE
Appearance	  	  	  
Image Sensor	1/2.7" 5Mp CMOS	1/1.8" 4Mp CMOS	1/2.8" 2Mp STARVIS™ CMOS
Lens	2.8mm fixed lens (3.6mm, 6mm optional)	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm, 6mm optional)
FOV-H	102°/84°/51°	113°/89°/56°	106°/87°/53°
Min. Illumination	0.005 Lux@F1.6	0.002 Lux@F1.6	0.002 Lux@F1.6
Day/Night	ICR	ICR	ICR
WDR	120dB	140dB	120dB
Max. IR Distance	50 m (164 ft)	50 m (164 ft)	50 m (164 ft)
Video Compression	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H
Smart Codec	Supported	Supported	Supported
Max. Resolution	5Mp(2592x1944)	4Mp(2688x1520)	1080P(1920x1080)
Frame Rate	20fps@5Mp	25/30fps@4Mp	25/30fps@1080P
Multi-streaming	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360°	Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360°	Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360°
Compatibility	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI
Audio In/Out	Built-in MIC	Built-in MIC	Built-in MIC
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	--	--
Ingress Protection	IP67	IP67	IP67
Working Temperature	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)
Power	DC12V, PoE (802.3af), Max. 7.2W	DC12V, PoE (802.3af), Max. 7.2W	DC12V, PoE (802.3af), Max. 6.8W
Artificial Intelligence			
Face Detection	Supported	Supported	Supported
Face Attributes	--	--	--
Perimeter Protection	Tripwire, Intrusion(Recognition of Vehicle and People), Fast Moving, Loitering Detection, Parking Detection and People Gathering.	Tripwire, Intrusion(Recognition of Vehicle and People), Fast Moving, Loitering Detection, Parking Detection and People Gathering.	Tripwire, Intrusion(Recognition of Vehicle and People), Fast Moving, Loitering Detection, Parking Detection and People Gathering.
People Counting	Support Line crossing/Region/Queueing people counting Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting Support 4 accesses independent detection, 4 areas independent detection
General Intelligence			
IVS	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map

NETWORK CAMERAS

Pro AI Series

Full-color

Model	IPC-HDBW5449R-ASE-NI	IPC-HDBW5249R-ASE-NI	IPC-HFW5449T-ASE-NI	IPC-HFW5249T-ASE-NI
Appearance	 Full-color	 Full-color	 Full-color	 Full-color
Image Sensor	1/1.8" 4Mp CMOS	1/2.8" 2Mp CMOS	1/1.8" 4Mp CMOS	1/2.8" 2Mp CMOS
Lens	3.6mm fixed lens	3.6mm fixed lens	3.6mm fixed lens	3.6mm fixed lens
FOV-H	93°	88°	93°	88°
Min. Illumination	0.001Lux@ F1.0	0.001Lux@ F1.0	0.001Lux@ F1.0	0.001Lux@ F1.0
Day/Night	Electronic	Color/B/W	Electronic Color	Color/B/W
WDR	140dB	120dB	140dB	120dB
Max. IR Distance	--	--	--	--
Video Compression	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H
Smart Codec	Supported	Supported	Supported	Supported
Max. Resolution	4Mp(2688x1520)	1080P (1920 × 1080)	4Mp(2688x1520)	1080P (1920 × 1080)
Frame Rate	25/30fps@4Mp	25/30fps@2Mp	25/30fps@4Mp	25/30fps@2Mp
Multi-streaming	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan:0°~355°; Tilt:0°~75°; Rotation:0°~355°	Pan:0°~355°; Tilt:0°~75°; Rotation:0°~355°	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°
Compatibility	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI	ONVIF Profile S, G&T, CGI
Audio In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Ingress Protection	IP67, IK10	IP67, IK10	IP67	IP67
Working Temperature	-30°C~+60°C(-22°F ~ +140°F)	-40°C~+60°C(-40°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)	-40°C~+60°C(-40°F ~ +140°F)
Power	DC12V, PoE (802.3af), Max. 4.4W	DC12V, PoE (802.3af), Max. 3.8W	DC12V, PoE (802.3af), Max. 4.4W	DC12V, PoE (802.3af), Max. 3.8W
Artificial Intelligence				
Face Detection	Supported	Supported	Supported	Supported
Face Attributes	--	--	--	--
Perimeter Protection	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering	Tripwire, Intrusion (Human & Vehicle classification), Fast Moving Loitering Detection Parking Detection and People Gathering
People Counting	Support Line crossing/Region/Queueing people counting Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting Support 4 accesses independent detection, 4 areas independent detection	Support Line crossing/Region/Queueing people counting Support 4 accesses independent detection, 4 areas independent detection
General Intelligence				
IVS	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map

-  Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.4w
- ePoE only works with ePoE devices

NETWORK CAMERAS

Pro Series

Pro is the perfect choice for users who require a great balance of innovation and quality with cost. With ePoE technology for long-range transmission, a wide-range of models, and easy plug & play installation, the Eco-Savvy 3.0 series can meet the needs of diverse applications with challenging conditions.

⊕ KEY FEATURES

Extended PoE

Up to 800m transmission distance @10Mbps & 13W or 300m @100Mbps & 25.4W

Carefree Installation

Automatic setup with plug & play makes installation easy

Wide Selection

Rich selection of IP cameras, NVRs, and network switches

Easy Analog to IP

Migrate analog system to IP with Ethernet-to-coax converter and PoC

Pro Series

	Vari-Focal Bullet	Vari-Focal Dome		Vari-Focal Eyeball
Model	IPC-HFW5831E-ZE/Z5E	IPC-HDBW5831E-ZE/Z5E	IPC-HDBW5831R-ZE	IPC-HDW5831R-ZE
Appearance	 4K	 4K	 4K	 4K
Image Sensor	1/2.5" 8MP STARVIS™ CMOS	1/2.5" 8MP STARVIS™ CMOS	1/2.5" 8MP STARVIS™ CMOS	1/2.5" 8MP CMOS
Lens	2.7~12mm/F1.4, Motorized 7~35mm/F1.4, Motorized(Z5)	2.7~12mm/F1.4, Motorized 7~35mm/F1.4, Motorized(Z5E)	2.7mm ~12mm motorized lens	2.7~12mm/F1.8, Motorized
FOV-H	110°~40° 38°~14°(Z5)	110°~40° 38°~14°(Z5)	110°~40°	110°~40°
Min. Illumination	0.05Lux/F1.4(Color,1/3s,30IRE) 0.2Lux/F1.4(Color,1/30s,30IRE) 0Lux/F1.4(IR on)	0.05Lux/F1.4(Color,1/3s,30IRE) 0.2Lux/F1.4(Color,1/30s,30IRE) 0Lux/F1.4(IR on)	0.05Lux/F1.4 (Color,1/3s,30IRE) 0.2Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on)	0.05Lux/F1.8 (Color,1/3s,30IRE) 0.2Lux/F1.8 (Color,1/30s,30IRE) 0Lux/F1.8(IR on)
Day/Night	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB
Max. IR Distance	50m(164ft) 100m(328ft)(Z5E)	50m(164ft) 100m(328ft)(Z5E)	50m (164ft)	50m(164ft)
Video CoMPression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Max. Resolution	4K(3840×2160)	4K(3840×2160)	4K(3840×2160)	4K(3840×2160)
Frame Rate	15fps@4K, 30fps@3MP	15fps@4K, 30fps@3MP	15fps@4K, 30fps@3M	15fps@4K, 30fps@3MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°	Pan:0°~355°; Tilt:0°~75° Rotation:0°~355°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°
Intelligent Video	Tripwire, Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire, Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire, Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire, Intrusion Scene Change Abandoned/Missing Face Detection
CoMPatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI
Audio In/Out	1/1	1/1	1/1	Built-in Mic
Memory Slot	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB
Alarm In/Out	2(5V 5mA)/1(12V 300mA)	1(5V 5mA)/1(12V 300mA)	1(5V 5mA)/1(12V 300mA)	--
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67
Working Temperature	-30°C~-60°C(-22°F~+140°F)	-30°C~-60°C(-22°F~+140°F)	-30°C~-60°C(-22°F ~ +140°F)	-30°C~-60°C(-22°F~+140°F)
Power	DC12V PoE (802.3af)(Class 0) Max. 12.95W	DC12V/AC24V PoE+(802.3at)(Class 4) Max. 15W	DC12V PoE(802.3af)(Class 0) Max. 8.5W	DC12V PoE(802.3af)(Class 0) Max. 8.5W

NETWORK CAMERAS

Eco-Savvy 3.0 ePoE Series (Pro Series)

	Fixed Mini-Bullet		Fixed Mini-Dome	Fixed Eyeball	Wedge Dome		Full-color	
Model	IPC-HFW4831E-SE	IPC-HFW4831T-ASE	IPC-HDBW4831E-ASE	IPC-HDW4831EM-ASE	IPC-HDBW4231F-AS	IPC-HDBW4431F-AS	IPC-HFW4239T-ASE-NI	IPC-HDBW4239R-ASE-NI
Appearance								
Image Sensor	1/2.5" 8MP STARVIS™ CMOS	1/2.5" 8MP STARVIS™ CMOS	1/2.5" 8MP STARVIS™ CMOS	1/2.5" 8MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/3" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	2.8mm/F1.6 4mm/F1.6	2.8mm/F1.6 4mm/F1.6	2.8mm/F2.5 4mm/F2.2	2.8mm/F2.5 4mm/F2.2	2.8mm/F2.0, 3.6mm/F2.0 6mm/F2.0	2.8mm/F2.0, 3.6mm/F2.0 6mm/F2.0	3.6mm/F1.0 6mm/F1.0	3.6mm/F1.0 6mm/F1.0
FOV-H	112°/88°	112°/88°	122°/88°	112°/88°	110°/87°/51°	104°/87°/55°	87°/47°	87°/47°
Min. Illumination	0.06Lux/F1.6 (Color, 1/3s, 30IRE) 0.3Lux/F1.6 (Color, 1/30s, 30IRE) 0Lux/F1.6 (IR on)	0.06Lux/F1.6 (Color, 1/3s, 30IRE) 0.3Lux/F1.6 (Color, 1/30s, 30IRE) 0Lux/F1.6 (IR on)	0.03Lux/F2.5 (Color, 1/3s, 30IRE) 0.3Lux/F2.5 (Color, 1/30s, 30IRE) 0Lux/F2.5 (IR on)	0.03Lux/F2.5 (Color, 1/3s, 30IRE) 0.3Lux/F2.5 (Color, 1/30s, 30IRE) 0Lux/F2.5 (IR on)	0.009Lux/F2.0 (Color, 1/3s, 30IRE) 0.07Lux/F2.0 (Color, 1/30s, 30IRE) 0Lux/F2.0 (IR on)	0.08Lux/F2.0 (Color, 1/3s, 30IRE) 0.3Lux/F2.0 (Color, 1/30s, 30IRE) 0Lux/F2.0 (IR on)	0.001Lux/F1.0 (Color, 1/3s, 30IRE) 0.006Lux/F1.0 (Color, 1/30s, 30IRE)	0.001Lux/F1.0 (Color, 1/3s, 30IRE) 0.006Lux/F1.0 (Color, 1/30s, 30IRE)
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	40m(131.2ft)	80m(262ft)	30m(98ft)	50m(164ft)	20m(66ft)	20m(66ft)	--	--
Video CoMPression	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264
Max. Resolution	4K(3840×2160)	4K(3840×2160)	4K(3840×2160)	4K(3840×2160)	1080P(1920×1080)	4MP(2688×1520)	1080P(1920×1080)	1080P(1920×1080)
Frame Rate	15fps@4K, 30fps@3MP	15fps@4K, 30fps@3MP	15fps@4K, 30fps@3MP	15fps@4K, 30fps@3MP	60fps@1080P	30fps@4MP	25/30fps@1080P	25/30fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~64° Rotation: 0°~355°	Pan: 0°~360°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~60°; Tilt: 0°~80° Rotation: 0°~360°	Pan: 0°~60°; Tilt: 0°~80° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~80° Rotation: 0°~360°
Intelligent Video	Tripwire, Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire, Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire, Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire, Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire, Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire, Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire, Intrusion Scene Change Abandoned/Missing Face Detection	Tripwire, Intrusion Scene Change Abandoned/Missing Face Detection
CoMPatibility	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF, PSIA, CGI	ONVIF profile S&G, API	ONVIF profile S&G, API
Audio In/Out	--	1/1	1/1	Built-in Mic	Built-in Mic	Built-in Mic	1/1	1/1
Memory Slot	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB
Alarm In/Out	--	1(5V 5mA)/1(12V 300mA)	1(5V 5mA)/1(12V 300mA)	--	--	--	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Ingress Protection	IP67	IP67, IK10	IP67, IK10	IP67	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-30°C~-60°C (-22°F~-140°F)	-30°C~-60°C (-22°F~-140°F)	-40°C~-60°C (-40°F~-140°F)	-30°C~-60°C (-22°F~-140°F)	-30°C~-60°C (-22°F~-140°F)	-30°C~-60°C (-22°F~-140°F)	-30°C~-60°C (-22°F~-140°F)	-30°C~-60°C (-22°F~-140°F)
Power	DC12V PoE (802.3af)(Class 0) Max. 6.5W	DC12V PoE (802.3af)(Class 0) Max. 11W	DC12V PoE (802.3af)(Class 0) Max. 5.5W	DC12V PoE (802.3af)(Class 0) Max 6W	DC12V PoE (802.3af)(Class 0) Max. 4.5W	DC12V PoE (802.3af)(Class 0) Max. 4.5W	DC12V PoE (802.3af) Max 4W	DC12V PoE (802.3af) Max 4W

 • Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.4w
• ePoE only works with ePoE devices

Lite AI Series

Lite AI Series as entry level AI products featured SMD Plus and Perimeter Protection functions based on Deep-Learning Algorithm which greatly improves alarm accuracy and recognize human/vehicle. Adopting Smart H.265+ encoding technology, Lite AI series realizes higher efficiency than H.265 & H.264, it helps to reduce storage cost markedly. Powered by Starlight and True WDR technology, Lite AI provides better quality image.

⊕ KEY FEATURES

SMD Plus

False Alarm filter
Focus on Human and Vehicle

Smart codec

Smart Code
Lower Bite Rate, Less Storage

Perimeter Protection

Tripwire, Intrusion
Powered By AI

Better Quality Image

Starlight
True WDR

Lite AI Series

Vari-Focal Bullet			
Model	IPC-HFW3541T-ZAS	IPC-HFW3441T-ZAS	IPC-HFW3241T-ZAS
Appearance	 	 	 
Image Sensor	1/2.7" 5Mp CMOS	1/3" 4Mp CMOS	1/2.8" 2Mp CMOS
Lens	2.7mm ~13.5mm motorized lens	2.7mm ~13.5mm motorized lens	2.7mm ~13.5mm motorized lens
FOV-H	99°~26°	104°~27°	108°~28°
Min. Illumination	0.005 Lux@F1.5	0.005 Lux@F1.5	0.002 Lux@F1.5
Day/Night	ICR	ICR	ICR
WDR	120dB	120dB	120dB
Max. IR Distance	60 m (197.0 ft)	60 m (197.0 ft)	60 m (197.0 ft)
Video Compression	H.265/H.264/H.264H/H.264B/MJPEG	H.265/H.264/H.264H/H.264B/MJPEG	H.265/H.264/H.264H/H.264B/MJPEG
Smart Codec	Supported	Supported	Supported
Max. Resolution	5M (2592 × 1944)	4M (2688 × 1520)	1080p (1920 × 1080)
Frame Rate	2592 × 1944@1~20 fps	2688 × 1520@1~25/30 fps	1920 × 1080@1~25/30 fps
Multi-streaming	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Horizontal: 0°~ 360° Vertical: 0°~ 90° Rotation: 0° ~ 360°	Horizontal: 0°~ 360° Vertical: 0°~ 90° Rotation: 0° ~ 360°	Horizontal: 0°~ 360° Vertical: 0°~ 90° Rotation: 0° ~ 360°
Compatibility	ONVIF (profile S&G), CGI, P2P Milestone, Genetec	ONVIF (profile S&G), CGI, P2P Milestone, Genetec	ONVIF (profile S&G), CGI, P2P Milestone, Genetec
Audio In/Out	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC
Ingress Protection	IP67	IP67, IK10(optional)	IP67, IK10(optional)
Working Temperature	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)
Power	12V DC/POE (802.3af), Max. 9.8W	12V DC/POE (802.3af), Max. 9.8W	12V DC/POE (802.3af), Max. 9.4W
Artificial Intelligence			
Perimeter Protection	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire; intrusion (Recognition of human and vehicle)
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
SMD	Supported	Supported	Supported

NETWORK CAMERAS

Lite AI Series

	Vari-Focal Dome			Vari-Focal Eyeball		
Model	IPC-HDBW3541R-ZAS	IPC-HDBW3441R-ZAS	IPC-HDBW3241R-ZAS	IPC-HDW3541T-ZAS	IPC-HDW3441T-ZAS	IPC-HDW3241T-ZAS
Appearance	 AI Starlight	 AI Starlight	 AI Starlight+	 AI Starlight	 AI Starlight+	 AI Starlight+
Image Sensor	1/2.7" 5Mp CMOS	1/3" 4Mp CMOS	1/2.8" 2Mp CMOS	1/2.7" 5Mp CMOS	1/3" 4Mp CMOS	1/2.8" 2Mp CMOS
Lens	2.7mm~13.5mm motorized lens	2.7mm~13.5mm motorized lens	2.7mm~13.5mm motorized lens	2.7mm~13.5mm motorized lens	2.7mm~13.5mm motorized lens	2.7mm~13.5mm motorized lens
FOV-H	99°~26°	104°~27°	108°~28°	99°~26°	104°~27°	108°~28°
Min. Illumination	0.005 Lux@F1.5	0.005 Lux@F1.5	0.002 Lux@F1.5	0.005 Lux@F1.5	0.005 Lux@F1.5	0.002 Lux@F1.5
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	40 m (131.2 ft)	40 m (131.2 ft)	40 m (131.23 ft)	40 m (131.2 ft)	40 m (131.2 ft)	40 m (131.2 ft)
Video Compression	H.265/H.264/H.264H/H.264B/MJPEG	H.265/H.264/H.264H/H.264B/MJPEG	H.265/H.264/H.264H/H.264B/MJPEG	H.265/H.264/H.264H/H.264B/MJPEG	H.265/H.264/H.264H/H.264B/MJPEG	H.265/H.264/H.264H/H.264B/MJPEG
Smart Codec	Supported	Supported	Supported	Supported	Supported	Supported
Max. Resolution	5M (2592 × 1944)	4Mp(2688×1520)	1080p (1920 × 1080)	5Mp(2592×1944)	4Mp(2688×1520)	1080P(1920×1080)
Frame Rate	2592 × 1944@1~20 fps	2688 × 1520@1~25/30 fps	1920 × 1080@1~25/30 fps	2592 × 1944@1~20 fps	2688 × 1520@1~25/30 fps	1920 × 1080@1~25/30 fps
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan:0°~355° Verticle:0°~75° Rotation:0°~355°	Pan:0°~355° Verticle:0°~75° Rotation:0°~355°	Pan:0°~355° Verticle:0°~75° Rotation:0°~355°	Pan:0°~360° Tilt:0°~78° Rotation:0°~360°	Pan:0°~360° Tilt:0°~78° Rotation:0°~360°	Pan:0°~360° Tilt:0°~78° Rotation:0°~360°
Compatibility	ONVIF (profile S&G), CGI, P2P Milestone, Genetec	ONVIF (profile S&G), CGI, P2P Milestone, Genetec	ONVIF (profile S&G), CGI, P2P Milestone, Genetec	ONVIF (profile S&G), CGI, P2P Milestone, Genetec	ONVIF (profile S&G), CGI, P2P Milestone, Genetec	ONVIF (profile S&G), CGI, P2P Milestone, Genetec
Audio In/Out	1/1	1/1	1/1	Built-in MIC	Built-in MIC	Built-in MIC
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	--	--	--
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67	IP67	IP67
Working Temperature	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)	-30° C ~ +60° C (-22° F ~ +140° F)	-30° C ~ +60° C (-22° F ~ +140° F)
Power	12V DC/POE (802.3af), Max. 8.5W	12V DC/POE (802.3af), Max. 8.5W	12V DC/POE (802.3af), Max. 8W	12V DC/POE (802.3af), Max. 8W	12V DC/POE (802.3af), Max. 8.3W	12V DC/POE (802.3af), Max. 7.8W
Artificial Intelligence						
Perimeter Protection	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire; intrusion (Recognition of human and vehicle)
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
SMD	Supported	Supported	Supported	Supported	Supported	Supported

NETWORK CAMERAS

Lite AI Series

	Fixed Bullet			Fixed Dome		
Model	IPC-HFW3541E-AS	IPC-HFW3441E-AS	IPC-HFW3241E-AS	IPC-HDBW3541E-AS	IPC-HDBW3441E-AS	IPC-HDBW3241E-AS
Appearance	  	  	  	  	  	  
Image Sensor	1/2.7" 5Mp CMOS	1/3" 4Mp CMOS	1/2.8" 2Mp CMOS	1/2.7" 5Mp CMOS	1/3" 4Mp CMOS	1/2.8" 2Mp CMOS
Lens	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm/6mm optional)
FOV-H	0°~98°(2.8mm) 0°~80°(3.6mm) 0°~50°(6mm)	0°~103°(2.8mm) 0°~84°(3.6mm) 0°~52°(6mm)	0°~106°(2.8mm) 0°~87°(3.6mm) 0°~54°(6mm)	0°~98°(2.8mm) 0°~80°(3.6mm) 0°~50°(6mm)	0°~103°(2.8mm) 0°~84°(3.6mm) 0°~52°(6mm)	0°~106°(2.8mm) 0°~87°(3.6mm) 0°~54°(6mm)
Min. Illumination	0.005 Lux@F1.6	0.005 Lux@F1.6	0.002 Lux@F1.6	0.005 Lux@F1.6	0.005 Lux@F1.6	0.002 Lux@F1.6
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	50 m (164.0 ft)	50 m (164.0 ft)	50 m (164.0 ft)	50 m (164.0 ft)	50 m (164.0 ft)	50 m (164.0 ft)
Video Compression	H.265/H.264/H.264H/H.264B/MJPEG	H.265/H.264/H.264H/H.264B/MJPEG	H.265/H.264/H.264H/H.264B/MJPEG	H.265/H.264/H.264H/H.264B/MJPEG	H.265/H.264/H.264H/H.264B/MJPEG	H.265/H.264/H.264H/H.264B/MJPEG
Smart Codec	Supported	Supported	Supported	Supported	Supported	Supported
Max. Resolution	5Mp(2592×1944)	4M (2688 × 1520)	1080P(1920×1080)	5M (2592 × 1944)	4M (2688 × 1520)	1080P(1920×1080)
Frame Rate	2592 × 1944@1~20 fps	2688 × 1520@1~25/30 fps	1920 × 1080@1~25/30 fps	2592 × 1944@1~20 fps	2688 × 1520@1~25/30 fps	1920 × 1080@1~25/30 fps
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Horizontal: 0°~360° Vertical: 0°~90° Rotation: 0°~360°	Horizontal: 0°~360° Vertical: 0°~90° Rotation: 0°~360°	Horizontal: 0°~360° Vertical: 0°~90° Rotation: 0°~360°	Pan:0°~355° Vertical:0°~65° Rotation:0°~355°	Pan:0°~355° Vertical:0°~65° Rotation:0°~355°	Pan:0°~355° Vertical:0°~65° Rotation:0°~355°
Compatibility	ONVIF (profile S&G), CGI, P2P Milestone, Genetec	ONVIF (profile S&G), CGI, P2P Milestone, Genetec	ONVIF (profile S&G), CGI, P2P Milestone, Genetec	ONVIF (profile S&G), CGI, P2P Milestone, Genetec	ONVIF (profile S&G), CGI, P2P Milestone, Genetec	ONVIF (profile S&G), CGI, P2P Milestone, Genetec
Audio In/Out	1/1, Built-in MIC	1/1, Built-in MIC	1/1, Built-in MIC	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC
Ingress Protection	IP67	IP67	IP67	IP67; IK10	IP67; IK10	IP67; IK10
Working Temperature	-40°C~+60°C(-40°F ~ +140°F)	-40°C~+60°C(-40°F ~ +140°F)	-40°C~+60°C(-40°F ~ +140°F)	-40°C~+60°C(-40°F ~ +140°F)	-40°C~+60°C(-40°F ~ +140°F)	-40°C~+60°C(-40°F ~ +140°F)
Power	12V DC/POE (802.3af), Max.5.4W	12V DC/POE (802.3af), Max.5.4W	12V DC/POE (802.3af), Max.5.2W	12V DC/POE (802.3af), Max.7.3W	12V DC/POE(802.3af), Max.7.3W	12V DC/POE(802.3af), Max.6.9W
Artificial Intelligence						
Perimeter Protection	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire; intrusion (Recognition of human and vehicle)
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	Work together with Smart NVR to perform refine intelligent search, event extractionand merging to event videos	Work together with Smart NVR to perform refine intelligent search, event extractionand merging to event videos	Work together with Smart NVR to perform refine intelligent search, event extractionand merging to event videos
SMD	Supported	Supported	Supported	Supported	Supported	Supported

NETWORK CAMERAS

Lite AI Series

	Fixed Eyeball			Wedge Dome		
Model	IPC-HDW3541TM-AS	IPC-HDW3441TM-AS	IPC-HDW3241TM-AS	IPC-HDBW3541F-AS-M	IPC-HDBW3441F-AS-M	IPC-HDBW3241F-AS-M
Appearance	 Starlight	 Starlight	 Starlight+	 Starlight	 Starlight	 Starlight+
Image Sensor	1/2.7" 5Mp CMOS	1/3" 4Mp CMOS	1/2.8" 2Mp CMOS	1/2.7" 5Mp CMOS	1/3" 4Mp CMOS	1/2.8" 2Mp CMOS
Lens	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm/6mm optional)
FOV-H	0°~98°(2.8mm) 0°~80°(3.6mm) 0°~50°(6mm)	0°~103°(2.8mm) 0°~84°(3.6mm) 0°~52°(6mm)	0°~106°(2.8mm) 0°~87°(3.6mm) 0°~54°(6mm)	0°~98°(2.8mm) 0°~80°(3.6mm) 0°~50°(6mm)	0°~103°(2.8mm) 0°~84°(3.6mm) 0°~52°(6mm)	0°~106°(2.8mm) 0°~87°(3.6mm) 0°~54°(6mm)
Min. Illumination	0.005 Lux@F1.6	0.005 Lux@F1.6	0.002 Lux@F1.6	0.005 Lux@F1.6	0.005 Lux@F1.6	0.002 Lux@F1.6
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	50 m (164.0 ft)	50 m (164.0 ft)	50 m (164.0 ft)	50 m (164.0 ft)	50 m (164.0 ft)	50 m (164.0 ft)
Video Compression	H.265/H.264/H.264H/H.264B/MJPEG	H.265/H.264/H.264H/H.264B/MJPEG	H.265/H.264/H.264H/H.264B/MJPEG	H.265/H.264/H.264H/H.264B/MJPEG	H.265/H.264/H.264H/H.264B/MJPEG	H.265/H.264/H.264H/H.264B/MJPEG
Smart Codec	Supported	Supported	Supported	Supported	Supported	Supported
Max. Resolution	5Mp(2592×1944)	4M (2688 × 1520)	1080p (1920 × 1080)	5M (2592 × 1944)	4Mp(2688×1520)	1080p (1920 × 1080)
Frame Rate	2592 × 1944@1~20 fps	2688 × 1520@1~25/30 fps	1920 × 1080@1~25/30 fps	2592 × 1944@1~20 fps	2688 × 1520@1~25/30 fps	1920 × 1080@1~25/30 fps
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Horizontal: 0° ~ 360° Vertical: 0° ~ 78° Rotation: 0°~ 360°	Horizontal: 0° ~ 360° Vertical: 0° ~ 78° Rotation: 0°~ 360°	Horizontal: 0° ~ 360° Vertical: 0° ~ 78° Rotation: 0°~ 360°	Horizontal: -30° ~ 30° Vertical: 0° ~ 80° Rotation: 0°~ 360°	Horizontal: -30° ~ 30° Vertical: 0° ~ 80° Rotation: 0°~ 360°	Horizontal: -30° ~ 30° Vertical: 0° ~ 80° Rotation: 0°~ 360°
Compatibility	ONVIF (profile S&G), CGI, P2P Milestone, Genetec	ONVIF (profile S&G), CGI, P2P Milestone, Genetec	ONVIF (profile S&G), CGI, P2P Milestone, Genetec	ONVIF (profile S&G), CGI, P2P Milestone, Genetec	ONVIF (profile S&G), CGI, P2P Milestone, Genetec	ONVIF (profile S&G), CGI, P2P Milestone, Genetec
Audio In/Out	Built-in MIC	Built-in MIC	Built-in MIC	Built-in MIC	Built-in MIC	Built-in MIC
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	--	--	--	--	--
Ingress Protection	IP67	IP67	IP67	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-40°C~+60°C(-40°F ~ +140°F)	-40°C~+60°C(-40°F ~ +140°F)	-40°C~+60°C(-40°F ~ +140°F)	-40°C~+60°C(-40°F ~ +140°F)	-40°C~+60°C(-40°F ~ +140°F)	-40°C~+60°C(-40°F ~ +140°F)
Power	12V DC/POE (802.3af), Max. 8.1W	12V DC/POE (802.3af), Max. 7.7W	12V DC/POE (802.3af), Max. 7.7W	12V DC/POE (802.3af), Max. 5.7W	12V DC/POE (802.3af), Max. 5.7W	12V DC/POE (802.3af), Max. 5.7W
Artificial Intelligence						
Perimeter Protection	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire; intrusion (Recognition of human and vehicle)
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
SMD	Supported	Supported	Supported	Supported	Supported	Supported

Lite Series

The Lite Series is suitable for users who want quality product but have tight budget. Superior cost/performance, easy installation, and Dahua quality standards and assurance make it a good choice for residential and small-medium business applications.

⊕ KEY FEATURES

H.265+

Advanced encoding saves up to 70% bandwidth and storage

Easy & Reliable

Simple setup and high quality cameras for stable surveillance

Cost-Effective

Performance and quality are combined at an affordable price

Lite Series

Vari-Focal Bullet

Model	IPC-HFW2531T-ZS-S2	IPC-HFW2431T-ZS-S2	IPC-HFW2231T-ZS-S2
Appearance	 	 	 
Image Sensor	1/2.7" 5MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS
Lens	2.7 mm~13.5 mm/F1.5	2.7 mm~13.5 mm/F1.5	2.7 mm~13.5 mm/F1.5
FOV-H	100°~26°	104°~27°	109°~28°
Min. Illumination	0.008 Lux@F1.5	0.008 Lux@F1.5	0.002 Lux@F1.5
Day/Night	ICR	ICR	ICR
WDR	120dB	120dB	120dB
Max. IR Distance	60 m (196.85 ft)	60 m (196.85 ft)	60m(197ft)
Video Compression	H.265/H.264/H.264B/MJPEG	H.265/H.264/H.264B/MJPEG	H.265/H.264/H.264B/MJPEG
Smart Codec	Supported	Supported	Supported
Max. Resolution	5MP(2592x1944)	4MP(2560x1440)	1080P(1920x1080)
Frame Rate	20fps@5MP	25/30fps@4MP	25/30fps@2MP
Multi-streaming	2 streams	2 streams	2 streams
Pan/Tilt/Rotation	Pan: 0°~360° Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360° Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360° Tilt: 0°~90° Rotation: 0°~360°
Intelligent Video	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion
Compatibility	ONVIF (Profile S/Profile G), CGI, Milestone, Genetec	ONVIF (Profile S/Profile G), CGI, Milestone, Genetec	ONVIF (Profile S/Profile G), CGI, Milestone, Genetec
Audio In/Out	--	--	--
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	--	--
Ingress Protection	IP67	IP67;IK10(optional)	IP67;IK10(optional)
Working Temperature	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)
Power	DC12V, PoE, Max. 10W	DC12V, PoE, Max. 9.6W	DC12V, PoE, Max. 9.6W

NETWORK CAMERAS

Lite Series

	Vari-Focal Dome			Vari-Focal Eyeball		
Model	IPC-HDBW2531R-ZS-S2	IPC-HDBW2431R-ZS-S2	IPC-HDBW2231R-ZS-S2	IPC-HDW2531T-ZS-S2	IPC-HDW2431T-ZS-S2	IPC-HDW2231T-ZS-S2
Appearance	 Starlight	 Starlight	 Starlight+	 Starlight	 Starlight	 Starlight+
Image Sensor	1/2.7" 5MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.7" 5MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS
Lens	2.7 mm~13.5 mm/F1.5	2.7 mm~13.5 mm/F1.5	2.7 mm~13.5 mm/F1.5	2.7 mm~13.5 mm/F1.5	2.7 mm~13.5 mm/F1.5	2.7 mm~13.5 mm/F1.5
FOV-H	100°~26°	104°~27°	109°~28°	100°~26°	104°~27°	109°~28°
Min. Illumination	0.008 Lux@F1.5	0.008 Lux@F1.5	0.002 Lux@F1.5	0.008 Lux@F1.5	0.008 Lux@F1.5	0.002 Lux@F1.5
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	40m(131.2ft)	40m(131.2ft)	40m(131.2ft)	40m(131.2ft)	40m(131.2ft)	40m(131.2ft)
Video Compression	H.265/H.264/H.264B/MJPEG	H.265/H.264/H.264B/MJPEG	H.265/H.264/H.264B/MJPEG	H.265/H.264/H.264B/MJPEG	H.265/H.264/H.264B/MJPEG	H.265/H.264/H.264B/MJPEG
Smart Codec	Supported	Supported	Supported	Supported	Supported	Supported
Max. Resolution	5MP(2592x1944)	4MP(2560x1440)	1080P(1920x1080)	5MP(2592x1944)	4MP(2560x1440)	1080P(1920x1080)
Frame Rate	20fps@5MP	25/30fps@4MP	25/30fps@2MP	20fps@5MP	25/30fps@4MP	25/30fps@2MP
Multi-streaming	2 streams	2 streams	2 streams	2 streams	2 streams	2 streams
Pan/Tilt/Rotation	Pan: 0°~355°; Tilt: 0°~67° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~67° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~78° Rotation: 0°~360°
Intelligent Video	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion
Compatibility	ONVIF (Profile S/Profile G), CGI, Milestone, Genetec	ONVIF (Profile S/Profile G), CGI, Milestone, Genetec	ONVIF (Profile S/Profile G), CGI, Milestone, Genetec	ONVIF (Profile S/Profile G), CGI, Milestone, Genetec	ONVIF (Profile S/Profile G), CGI, Milestone, Genetec	ONVIF (Profile S/Profile G), CGI, Milestone, Genetec
Audio In/Out	--	--	--	--	--	--
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	--	--	--	--	--
Ingress Protection	IP67;IK10	IP67;IK10	IP67;IK10	IP67	IP67	IP67
Working Temperature	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F)
Power	DC12V,PoE Max. 7.9W	DC12V,PoE Max. 6.5W	DC12V,PoE Max. 6.4W	DC12V,PoE Max. 7.3W	DC12V,PoE Max. 6.4W	DC12V,PoE Max. 6.4W

NETWORK CAMERAS

Lite Series

Fixed Bullet

Model	IPC-HFW2531T-AS-S2	IPC-HFW2431T-AS-S2	IPC-HFW2231T-AS-S2	IPC-HFW2531S-S-S2	IPC-HFW2431S-S-S2	IPC-HFW2231S-S-S2
Appearance	 Starlight	 Starlight	 Starlight+	 Starlight	 Starlight	 Starlight+
Image Sensor	1/2.7" 5MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.7" 5MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS
Lens	3.6 mm/F1.6 6 mm/F1.6 8 mm/F1.6	3.6 mm/F1.6 6 mm/F1.6 8 mm/F1.6	3.6 mm/F1.6 6 mm/F1.6 8 mm/F1.6	2.8mm/F1.6, 3.6mm/F1.6	2.8mm/F1.6, 3.6mm/F1.6	2.8mm/F1.6, 3.6mm/F1.6
FOV-H	84°/ 51°/ 40°	84°/ 52°/ 40°	87°/ 54°/ 41°	103°/ 84°	102°/ 84°	106°/ 87°
Min. Illumination	0.008 Lux@F1.6	0.008 Lux@F1.6	0.002 Lux@F1.6	0.008 Lux@F1.6	0.008 Lux@F1.6	0.002 Lux@F1.6
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	60 m (196.85 ft)	60 m (196.85 ft)	60 m (196.85 ft)	30m(98ft)	30m(98ft)	30m(98ft)
Video Compression	H.265/H.264/H.264B/MJPEG	H.265/H.264/H.264B/MJPEG	H.265/H.264/H.264B/MJPEG	H.265/H.264/H.264B/MJPEG	H.265/H.264/H.264B/MJPEG	H.265/H.264/H.264B/MJPEG
Smart Codec	Supported	Supported	Supported	Supported	Supported	Supported
Max. Resolution	5MP(2592x1944)	4MP(2560x1440)	1080P(1920x1080)	5MP(2592x1944)	4MP(2560x1440)	1080P(1920x1080)
Frame Rate	20fps@5MP	25/30fps@4MP	25/30fps@2MP	20fps@5MP	25/30fps@4MP	25/30fps@2MP
Multi-streaming	2 streams	2 streams	2 streams	2 streams	2 streams	2 streams
Pan/Tilt/Rotation	Pan: 0°~360°; Tilt: 0°~90°; Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90°; Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90°; Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90° Rotation: 0°~360°
Intelligent Video	Tripwire; Intrusion	Tripwire; Intrusion	Tripwire; Intrusion	Tripwire; Intrusion	Tripwire; Intrusion	Tripwire; Intrusion
Compatibility	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P	ONVIF (Profile S/Profile G), CGI, Milestone, Genetec	ONVIF (Profile S/Profile G), CGI, Milestone, Genetec	ONVIF (Profile S/Profile G), CGI, Milestone, Genetec
Audio In/Out	1/1	1/1	1/1	--	--	--
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC	1 channel In: 5mA 5V DC 1 channel Out: 300mA 12V DC	--	--	--
Ingress Protection	IP67;IK10(optional)	IP67;IK10(optional)	IP67;IK10(optional)	IP67	IP67	IP67
Working Temperature	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)
Power	DC12V,PoE Max. 9.9W	DC12V,PoE Max. 9.6W	DC12V,PoE Max. 9.6W	DC12V,PoE Max. 5.6W	DC12V,PoE Max. 5W	DC12V,PoE Max. 4.9W

NETWORK CAMERAS

Lite Series

	Fixed Dome			Fixed Eyeball		
Model	IPC-HDBW2531E-S-S2	IPC-HDBW2431E-S-S2	IPC-HDBW2231E-S-S2	IPC-HDW2531T-AS-S2	IPC-HDW2431T-AS-S2	IPC-HDW2231T-AS-S2
Appearance	 	 	 	 	 	 
Image Sensor	1/2.7" 5MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.7" 5MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS
Lens	2.8mm/F1.6, 3.6mm/F1.6	2.8mm/F1.6, 3.6mm/F1.6	2.8mm/F1.6, 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6
FOV-H	103°/ 84°	102°/ 84°	106°/ 87°	103°/ 84°	102°/ 84°	106°/ 87°
Min. Illumination	0.008 Lux@F1.6	0.008 Lux@F1.6	0.002 Lux @F1.6	0.008 Lux@F1.6	0.008 Lux@F1.6	0.002 Lux @F1.6
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	30m(98ft)	30m(98ft)	30m(98ft)	30m(98ft)	30m(98ft)	30m(98ft)
Video Compression	H.265/H.264/H.264B/MJPEG	H.265/H.264/H.264B/MJPEG	H.265/H.264/H.264B/MJPEG	H.265/H.264/H.264B/MJPEG	H.265/H.264/H.264B/MJPEG	H.265/H.264/H.264B/MJPEG
Smart Codec	Supported	Supported	Supported	Supported	Supported	Supported
Max. Resolution	5MP(2592x1944)	4MP(2560x1440)	1080P(1920x1080)	5MP (2592x1944)	4MP (2560x1440)	1080P (1920x1080)
Frame Rate	20fps@5MP	25/30fps@4MP	25/30fps@2MP	20fps@5MP	25/30fps@4MP	15fps@8MP
Multi-streaming	2 streams	2 streams	2 streams	2 streams	2 streams	2 streams
Pan/Tilt/Rotation	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~65° Rotation: 0°~355°	Pan: 0°~360° Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360° Tilt: 0°~78° Rotation: 0°~360°	Pan: 0°~360° Tilt: 0°~78° Rotation: 0°~360°
Intelligent Video	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion
Compatibility	ONVIF (Profile S/Profile G), CGI, Milestone, Genetec	ONVIF (Profile S/Profile G), CGI, Milestone, Genetec	ONVIF (Profile S/Profile G), CGI, Milestone, Genetec	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec
Audio In/Out	--	--	--	Built-in MIC	Built-in MIC	Built-in MIC
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	--	--	--	--	--
Ingress Protection	IP67;IK10	IP67;IK10	IP67;IK10	IP67	IP67	IP67
Working Temperature	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)	-40°C to +60°C (-40°F to +140°F)
Power	DC12V,PoE Max. 6.1W	DC12V,PoE Max. 5.2W	DC12V,PoE Max. 5.4W	DC12V,PoE Max. 7.2W	DC12V,PoE Max. 6.6W	DC12V,PoE Max. 6.5W

NETWORK CAMERAS

Access ANPR Cameras

Access ANPR cameras are designed for license plate monitoring in low-speed scenarios, such as parking lots, gas stations, campus streets, etc. It is suitable for vehicle entrance & exit management as it has a whitelist function and the ability to control barrier gates. With embedded ANPR algorithms and true WDR, the Access ANPR camera can accurately detect and recognize vehicle license plates in all environments.

⊕ KEY FEATURES

Easy & Stable

Simple wizard-guided setup. True WDR and auto ICR suits all environments

Advanced Management

Embedded white/black list; Relay out port to control barriers

Cost-Effective

Embedded ANPR algorithm saves on the cost of maintaining smart servers

Well-Designed Solutions

Work with NVR Pro series for lite solution; EMS / PMS / DSS platforms for professional solutions

* Compatible with NVR Pro series (NVR5X)

Access ANPR Cameras

	Short-Focus			Long-Focus
Model	ITC215-PW4I-(IR)LZF27135			DHI-ITC237-PW6M-(IR)LZF1050
Appearance				
Bracket	Without	With Bracket	With Pole Mount	With Bracket
Image Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/1.8" CMOS
Max. Resolution	2MP (1920×1080)	2MP (1920×1080)	2MP (1920×1080)	2MP (1920 × 1080)
Speed Range for LPR	0~70km/h	0~70km/h	0~70km/h	0~80km/h
License Plate Recognition (LPR)	Support (Global)	Support (Global)	Support (Global)	Support (Global)
LPR Monitor Distance	Up to 12M	Up to 12M	Up to 12M	Up to 25m
Detection Mode	Loop& Video trigger	Loop& Video trigger	Loop& Video trigger	Video detection; I/O coil; video detection and I/O coil
Electronic Shutter Speed	1/50~1/10000s	1/50~1/10000s	1/50~1/10000s	1/50~1/10000s
Video Compression	H.265/H.264M/ H.264H/H.264B	H.265/H.264M/ H.264H/H.264B	H.265/H.264M/ H.264H/H.264B	H.264B/H.264M/ H.264H/H.265/MJPEG
Video Frame	Main Stream: 1080P(1-25/30fps) Sub Stream: 720P (1-25/30fps)	Main Stream: 1080P(1-25/30fps) Sub Stream: 720P (1-25/30fps)	Main Stream: 1080P(1-25/30fps) Sub Stream: 720P (1-25/30fps)	Main stream: (1280 × 960@25fps, 1280 × 720@25fps) sub stream: (1280 × 720@25fps, 704 × 576@25fps, 352 × 288@25fps)
Day/Night	IR : Auto(ICR) / Color / B/W White: -	IR : Auto(ICR) / Color / B/W White: -	IR : Auto(ICR) / Color / B/W White: -	IR : Auto(ICR) / Color / B/W White:-
Lamp	Built-in IR/White light	Built-in IR/White light	Built-in IR/White light	Built-in IR/White light
Lens	2.7mm~13.5mm Motorized/ Auto Iris(DC)	2.7mm~13.5mm Motorized/ Auto Iris(DC)	2.7mm~13.5mm Motorized/ Auto Iris(DC)	2.8mm~13.5mm Motorized/ Auto Iris(DC)
Ingress Protection	IP67	IP67	IP67	IP67
Interface	1 ×100/1000M Ethernet, 2 I/O inputs, 2 RS485 3/3 channel Alarm In/Out	1 ×100/1000M Ethernet, 2 I/O inputs, 2 RS485 3/3 channel Alarm In/Out	1 ×100/1000M Ethernet, 2 I/O inputs, 2 RS485 3/3 channel Alarm In/Out	1 ×100/1000M Ethernet, 2 I/O inputs, 1 RS485 1/2 channel Alarm In/Out
Working Temperature	-30°C~+65°C (-22°F~+149°F)	-30°C~+65°C (-22°F~+149°F)	-30°C~+65°C (-22°F~+149°F)	-30°C~+65°C (-22°F~+149°F)
Power	DC12V, PoE +(802.3at)	DC12V, PoE +(802.3at)	DC12V, PoE +(802.3at)	12V DC, 24V AC, PoE

NETWORK PTZ CAMERAS



Ultra AI Series

The Ultra AI Series PTZ is designed for projects with the highest quality and performance requirements. With high performance Sony camera sensors, IP67 & IK10, and extra-long distance IR, this range is capable of handling any type of scenarios.

⊕ KEY FEATURES

Advanced Sensors

High sensitivity & low noise with back-illuminated pixel technology

Superior Image

Starlight / Ultra 140dB WDR provides clear image under any light conditions

Automated Surveillance

Intelligent auto-tracking PTZ tracks suspicious objects

Powerful Protection

IP67 / IK10 ratings ensure cameras can withstand tough conditions

Super IR Range

Cameras provide up to 550m IR range for performance in dark environments

Powerful Zoom

30x/40x/45x/48x optical zoom easily covers large areas

PFA

Improve focusing performance to a new level

NETWORK PTZ CAMERAS

Ultra AI Series

Outdoor IR PTZ Camera

Model	SDT5X405-4F-WA		SDT5X225-2F-WA-0600	
Appearance	 H.265+ Starlight+		 H.265+ Starlight+	
	Panoramic	Detail	Panoramic	Detail
Image Sensor	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	6 mm	10 mm~50 mm (5x Optical zoom)	6 mm	4.8 mm~120 mm (25x Optical zoom)
FOV-H	57°	45°~10°	54°	62.8° ~ 2.6°
Min. Illumination	0.001Lux/F1.0(Color) 0.0001Lux/F1.0 (B/W)	0.001Lux/F1.35(Color) 0Lux/F1.35 (IR on)	0.005Lux/F1.6(Color) 0.0005Lux/F1.6 (B/W)	0.005Lux/F1.6(Color) 0Lux/F1.6 (IR on)
WDR	120dB	120dB	120dB	120dB
Max. IR Distance	--	100 m (328.08 ft)	--	100 m (328.08 ft)
Video Compression	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H
Max. Resolution	4MP(2688×1520)	4MP(2688×1520)	2MP(1920×1080)	2MP(1920×1080)
Frame Rate	30fps@4MP	30fps@4MP	30fps@2MP	30fps@2MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless Tilt: 0°~30°	Pan: 0°~250° Tilt:-10°~90°	Pan: 0°~360° endless Tilt: 0°~30°	Pan: 0°~250° Tilt:-10°~90°
Preset Speed	Pan: 100°/s; Tilt: 25°/s	Pan: 120° /s; Tilt: 50° /s	Pan: 100°/s; Tilt: 25°/s	Pan: 120° /s; Tilt: 50° /s
Compatibility	ONVIF profileS&G, API		ONVIF profileS&G, API	
Audio In/Out	1/1		1/1	
Memory Slot	Micro SD, Max. 256GB		Micro SD, Max. 256GB	
Alarm In/Out	2/1		2/1	
Ingress Protection	IP67		IP67	
WorkingTemperature	-40°C~+70°C (-40°F ~ +158°F)		-40°C~+70°C (-40°F ~ +158°F)	
Power	DC36V,POE+(802.3at), Max.40W		DC36V,POE+(802.3at), Max.40W	
Artificial Intelligence				
Perimeter Protection	Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing		Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing	
Auto Tracking	Supported		Supported	
Video Structuralization	Supported		Supported	
Face Recognition	Supported		--	
Face Detection	Supported		--	

NETWORK PTZ CAMERAS

Ultra AI Series

Outdoor IR PTZ Camera

Model	SD10A848WA-HNF	SD10A260WA-HNF	SD8A840WA-HNF	SD8A820WA-HNF	SD8A440WA-HNF	SD8A250WA-HNF	SD8A240WA-HNF
Appearance	 H.265+ Starlight+	 H.265+ Starlight+	 4K H.265+ Polarlight	 4K H.265+ Polarlight	 H.265+ Starlight+	 H.265+ OIS	 H.265+ Starlight+
Image Sensor	1/1.8" 8MP STARVIS™ CMOS	1/1.8" STARVIS™ CMOS	1/1.8" 4K STARVIS™ CMOS	4/3" STARVIS™ CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP CMOS	1/1.8" 2MP CMOS
Lens	5.7 mm ~ 275 mm (48x Optical zoom)	5.6mm~336mm (60x Optical zoom)	5.6~223mm (40x Optical zoom)	16 mm~320 mm (20x Optical zoom)	5.6~223mm (40x Optical zoom)	6.6mm~330mm (50x Optical zoom)	5.6~223mm (40x Optical zoom)
FOV-H	64.9°~1.4°	64.9°~1.4°	63.9° ~ 2.0°	58.1°~3.2°	63.9° ~ 2.0°	41.3° ~ 1.1°	70.3° ~ 1.8°
Min. Illumination	0.001Lux/F1.4(Color) 0Lux/F1.4 (IR on)	0.001Lux/F1.4(Color) 0Lux/F1.4 (IR on)	0.002Lux/F1.4(Color) 0Lux/F1.4(IR on)	0.0005Lux/F1.6(Color) 0Lux/F1.6 (IR on)	0.001Lux/F1.4(Color) 0Lux/F1.4(IR on)	0.05Lux@F1.8(Color) 0Lux@F1.8(IR on)	0.001Lux/F1.4(Color) 0Lux/F1.4(IR on)
WDR	120dB	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	450 m (1476 ft)	450 m (1476 ft)	500m (1640ft)	500 m (1640 ft)	500m (1640ft)	500m (1640ft)	500m (1640ft)
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Max. Resolution	4K (3840×2160)	1080P (1920×1080)	4K (3840×2160)	4K (3840×2160)	4MP (2560×1440)	1080P (2560×1440)	1080P (1920×1080)
Frame Rate	30fps@4K	30fps@1080P	30fps@4K	30fps@4K	30fps@4MP	60fps@1080P	60fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless Tilt: -30°~90°	Pan: 0°~360° endless Tilt: -30°~90°	Pan: 0° ~ 360° endless Tilt: -30° ~ 90°	Pan: 0°~360° endless Tilt: -30°~90°	Pan: 0° ~ 360° endless Tilt: -30° ~ 90°	Pan: 0° ~ 360° endless Tilt: -30° ~ 90°	Pan: 0° ~ 360° endless Tilt: -30° ~ 90°
Preset Speed	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 120° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 120° /s	Pan: 240° /s; Tilt: 120° /s	Pan: 240° /s; Tilt: 120° /s
Compatibility	ONVIF profileS&G, API	ONVIF profileS&G, API	ONVIF profileS&G, API	ONVIF profileS&G, API	ONVIF profileS&G, API	ONVIF profileS&G, API	ONVIF profileS&G, API
Audio In/Out	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	7/2	7/2	7/2	7/2	7/2	7/2	7/2
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67	IP67
WorkingTemperature	-40°C~-70°C (-40°F~+158°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)	-40°C ~ +70°C(-40°F~+158°F)	-40°C ~ +70°C(-40°F~+158°F)	-40°C ~ +70°C(-40°F~+158°F)
Power	DC36V, Hi-POE, Max.42W	DC36V, Hi-POE, Max.42W	AC24V, Hi-PoE, Max. 42W	DC36V, Hi-POE, Max.42W	AC24V, Hi-PoE, Max. 42W	AC24V, Hi-PoE, Max. 38W	AC24V, Hi-PoE, Max. 38W
Artificial Intelligence							
Perimeter Protection	Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing	Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing	Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing	Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing	Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing	Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing	Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing
Auto Tracking	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Video Structuralization	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Face Recognition	--	--	Supported	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported	Supported	Supported	Supported

NETWORK PTZ CAMERAS

Ultra AI Series

Outdoor Laser PTZ Camera			Outdoor IR PTZ Camera			
Model	SD6AL445XA-HNR	SD6AL233XA-HNR	SD6AL445XA-HNR-IR	SD6AL233XA-HNR-IR	SD6AE233XA-HNR	SD65F233XA-HNR
Appearance	 AI H.265+ Starlight	 AI H.265+ Starlight+	 AI H.265+ Starlight	 AI H.265+ Starlight+	 AI H.265+ Starlight	 AI H.265+ Starlight
Image Sensor	1/2.8" 4MP STARVIS™ CMOS	1/1.8" 2M CMOS	1/2.8" 4MP STARVIS™ CMOS	1/1.8" 2MP CMOS	1/1.8" 2MP CMOS	1/1.8" 2MP CMOS
Lens	3.9~177.7 mm (45x Optical zoom)	5.8mm~191.4mm (33x Optical zoom)	3.9~177.7 mm (45x Optical zoom)	5.8mm~191.4mm (33x Optical zoom)	5.8~191.4mm (33x Optical zoom)	5.8mm~191.4mm (33x Optical zoom)
FOV-H	70.3°~1.8°	60.1° ~ 3.2°	70.3°~1.8°	60.1° ~ 3.2°	60.1° ~ 3.2°	60.1° ~ 3.2°
Min. Illumination	0.005Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.001Lux/F1.8(Color) 0Lux/F1.8 (IR on)	0.005Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.001Lux/F1.8(Color) 0Lux/F1.8 (IR on)	0.001Lux/F1.5 (Color) 0Lux/F1.5 (IR on)	0.001Lux/F1.5(Color) 0Lux/F1.5(IR on)
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	550m (1804ft)	550m (1804ft)	300m (984ft)	300m (984ft)	200m (656f)	--
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Max. Resolution	4MP(2560 x 1440)	1080P(1920 x 1080)	4MP(2560 x 1440)	1080P(1920 x 1080)	1080P(1920x1080)	1080P(1920x1080)
Frame Rate	30fps@4MP	60fps@1080P	30fps@4MP	60fps@1080P	60fps@1080P	60fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°
Preset Speed	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 240° /s; Tilt: 200° /s	Pan: 600° /s; Tilt: 500° /s
Compatibility	ONVIF profileS&G, API	ONVIF profileS&G, API	ONVIF profileS&G, API	ONVIF profileS&G, API	ONVIF profileS&G, API	ONVIF profileS&G, API
Audio In/Out	1/1	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	7/2	7/2	7/2	7/2	7/2	7/2
Ingress Protection	IP67	IP67	IP67	IP67	IP67, IK10	IP67, IK10
WorkingTemperature	-40°C ~ +70°C(-40°F~+158°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)	-40°C ~ +70°C(-40°F~+158°F)	-40°C ~ +70°C(-40°F~+158°F)
Power	DC36V, Hi-PoE, Max. 36W	AC24V, Hi-PoE, Max. 33W	DC36V, Hi-PoE, Max. 36W	AC24V, Hi-PoE, Max. 32W	AC24V, Hi-PoE, Max. 32W	AC24V, PoE~(802.3at), Max. 34W
Artificial Intelligence						
Perimeter Protection	Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing	Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing	Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing	Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing	Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing	Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing
Auto Tracking	Supported	Supported	Supported	Supported	Supported	Supported
Video Structuralization	Supported	Supported	Supported	Supported	Supported	Supported
Face Recognition	--	--	--	--	--	--
Face Detection	Supported	Supported	Supported	Supported	Supported	Supported

NETWORK PTZ CAMERAS

Ultra Series

	Outdoor Laser PTZ Camera	Outdoor IR PTZ Camera
Model	SD6AL245U-HNI	SD6AL245U-HNI-IR
Appearance	 	 
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	3.95~177.7mm (45x Optical zoom)	3.95~177.7mm (45x Optical zoom)
FOV-H	70.3°~1.8°	70.3°~1.8°
Min. Illumination	0.005Lux/F1.6(Color) 0Lux/1.6(IR on)	0.005Lux/F1.6(Color) 0Lux/1.6(IR on)
WDR	120dB	120dB
Max. IR Distance	550m(1804ft)	300m(984ft)
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Max. Resolution	1080P(1920×1080)	1080P(1920×1080)
Frame Rate	60fp@1080P	60fp@1080P
Multi-streaming	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless; Tilt: -20°~90°	Pan: 0°~360° endless; Tilt: -20°~90°
Preset Speed	Pan: 240°/s; Tilt: 200°/s	Pan: 240°/s; Tilt: 200°/s
Intelligent Video	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection
Compatibility	ONVIF profile S&G, API	ONVIF profile S&G, API
Audio In/Out	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	7/2	7/2
Ingress Protection	IP67	IP67
Working Temperature	-40°C~+60°C(-40°F~+140°F)	-40°C~+60°C(-40°F~+140°F)
Power	AC24V, Hi-PoE Max. 38W	AC24V, Hi-PoE Max. 38W

Pro AI Series

The Pro AI Series PTZ is designed to meet high image quality and low-light surveillance requirements with the help of Starlight technology. Rich housing and model selections are available to meet diverse application needs.

⊕ KEY FEATURES

Great Selection

Wide range of housings and models to suit all requirements

Advanced Intelligence

IVS, auto-tracking, and face detection ensure efficient surveillance

H.265

Advanced encoding saves up to 50% bandwidth and storage

Powerful Protection

IP67 / IK10 ratings ensure cameras can withstand tough conditions

Optimized Image

High quality image with Starlight technology

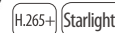
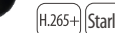
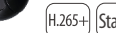
PFA

Improve focusing performance to a new level

NETWORK PTZ CAMERAS

Pro AI Series

Outdoor IR PTZ Camera

Model	SD6CE445XA-HNR	SD5A445XA-HNR	SD5A425XA-HNR	SD59432XA-HNR	SD59232XA-HNR
Appearance	  	  	  	  	  
Image Sensor	1/2.8" 4MP STARVIS™ CMOS	1/2.8" 4MP STARVIS™ CMOS	1/1.8" 4MP CMOS	1/2.8" 4MP STARVIS™ CMOS	1/2.8" 2MP CMOS
Lens	3.9~177.7 mm (45x Optical zoom)	3.9mm~177.7mm (45x Optical zoom)	5.8mm~145mm (25x Optical zoom)	4.9mm~156mm (32x Optical zoom)	5.1mm~162mm (32x Optical zoom)
FOV-H	70.3° ~ 1.8°	70.3°~1.8°	59.8°~2.8°	68.28°~2.24°	68.28°~2.24°
Min. Illumination	0.005Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.005Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.001Lux/F1.6(Color) 0Lux/F1.6 (IR on)	0.005Lux/F1.35(Color) 0Lux/F1.35(IR on)	0.005Lux/F1.35(Color) 0Lux/F1.35(IR on)
WDR	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	250m(820ft)	150m(492ft)	150 m (492.13 ft)	150m(492ft)	150m(492ft)
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Max. Resolution	4MP(2560x1440)	4MP(2560x1440)	4MP(2560x1440)	4MP(2560 x 1440)	1080P(1920 x 1080)
Frame Rate	30fps@4MP	30fps@4MP	30fps@4MP	30fps@ 4MP	60fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	Pan: 0°~360° endless Tilt: -15°~90°	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	Pan: 0° ~ 360° endless Tilt: -15° ~ 90°
Preset Speed	Pan: 400°/s; Tilt: 300°/s	Pan: 400°/s; Tilt: 300°/s	Pan: 400°/s; Tilt: 300°/s	Pan: 400°/s; Tilt: 300°/s	Pan: 400°/s; Tilt: 300°/s
Compatibility	ONVIF profile S&G, CGI	ONVIF profile S&G, CGI	ONVIF profileS&G, API	ONVIF profile S&G, CGI	ONVIF profile S&G, CGI
Audio In/Out	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	7/2	2/1	2/1	2/1	2/1
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP66	IP66
WorkingTemperature	-40°C ~ +70°C(-40°F~+158°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)	-40°C ~ +70°C(-40°F~+158°F)
Power	AC24V, PoE+(802.3at) Max. 20W	AC24V, PoE+(802.3at), Max. 20W	AC24V,POE+(802.3at) Max.20W	AC24V, PoE+(802.3at) Max. 24W	AC24V, PoE+ (802.3at) Max. 24W
Artificial Intelligence					
Perimeter Protection	Tripwire, Intrusion (Human & Vehicle classification)	Tripwire, Intrusion (Human & Vehicle classification)	Tripwire, Intrusion (Human & Vehicle classification)	Tripwire, Intrusion (Human & Vehicle classification)	Tripwire, Intrusion (Human & Vehicle classification)
SMD	Supported	Supported	Supported	Supported	Supported
Auto Tracking	Supported	Supported	Supported	Supported	Supported
Smart Capture	Supported	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported	Supported

NETWORK PTZ CAMERAS

Pro Series

	Outdoor IR PTZ Camera			Outdoor PTZ Camera		
Model	SD6CE245U-HNI	SD6CE230U-HNI	SD6CE225U-HNI	SD60430U-HNI	SD60230U-HNI	SD60225U-HNI
Appearance	 H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight	 H.265+	 H.265+ Starlight	 H.265+ Starlight
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/3" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	3.95~177.7mm (45x Optical zoom)	4.5~135mm (30x Optical zoom)	4.8~120mm (25x Optical zoom)	4.5~135mm (30x Optical zoom)	4.5~135mm (30x Optical zoom)	4.8~120mm (25x Optical zoom)
FOV-H	70.3°~1.8°	67.8°~2.4°	62.8°~2.6°	60°~2.2°	67.8°~2.4°	62.8°~2.6°
Min. Illumination	0.005Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.005Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.005Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.05Lux/F1.6(Color) 0.005Lux/F1.6(B/W)	0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W)	0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W)
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	250m(820ft)	200m(656ft)	200m(656ft)	--	--	--
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Max. Resolution	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)	4MP(2592×1520)	1080P(1920×1080)	1080P(1920×1080)
Frame Rate	60fp@1080P	60fp@1080P	60fp@1080P	30fps@4MP/3MP 60fps@1080P	60fps@1080P	60fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless; Tilt: -20°~90°	Pan: 0°~360° endless; Tilt: -20°~90°	Pan: 0°~360° endless; Tilt: -20°~90°	Pan: 0°~360° endless; Tilt: -20°~90°	Pan: 0°~360° endless; Tilt: -20°~90°	Pan: 0°~360° endless; Tilt: -20°~90°
Preset Speed	Pan: 300°/s; Tilt: 200°/s	Pan: 300°/s; Tilt: 200°/s	Pan: 300°/s; Tilt: 200°/s	Pan: 600°/s; Tilt: 500°/s	Pan: 600°/s; Tilt: 500°/s	Pan: 600°/s; Tilt: 500°/s
Intelligent Video	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection
Compatibility	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API
Audio In/Out	1/1	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	7/2	7/2	7/2	7/2	7/2	7/2
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-40°C~+70°C(-40°F~+158°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)	-40°C~+70°C(-40°F~+158°F)	-40°C~+70°C(-40°F~+158°F)
Power	AC24V, PoE+(802.3at) Max. 25W	AC24V, PoE+(802.3at) Max. 25W	AC24V, PoE+(802.3at) Max. 25W	AC24V, PoE+(802.3at) Max. 20W	AC24V, PoE+(802.3at) Max. 20W	AC24V, PoE+(802.3at) Max. 20W

NETWORK PTZ CAMERAS

Pro Series

Outdoor IR PTZ Camera

Outdoor PTZ Camera

Model	SD59430U-HNI	SD59230U-HNI	SD59225U-HNI	SD50430U-HNI	SD50230U-HNI
Appearance	 H.265+	 H.265+ Starlight	 H.265+ Starlight	 H.265+	 H.265+ Starlight
Image Sensor	1/3" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/3" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	4.5~135mm (30x Optical zoom)	4.5~135mm (30x Optical zoom)	4.8~120mm (25x Optical zoom)	4.5~135mm (30x Optical zoom)	4.5~135mm (30x Optical zoom)
FOV-H	60°~2.2°	67.8°~2.4°	62.8°~2.6°	60°~2.2°	67.8°~2.4°
Min. Illumination	0.05Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.005Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.005Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.05Lux/F1.6(Color) 0.005Lux/F1.6(B/W)	0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W)
WDR	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	100m(328ft)	150m(492ft)	150m(492ft)	--	--
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Max. Resolution	4MP(2592×1520)	1080P(1920×1080)	1080P(1920×1080)	4MP(2592×1520)	1080P(1920×1080)
Frame Rate	30fps@4MP/3MP 60fps@1080P	60fps@1080P	60fps@1080P	30fps@4MP/3MP 60fps@1080P	60fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless Tilt: -15°~90°	Pan: 0°~360° endless Tilt: -15°~90°	Pan: 0°~360° endless Tilt: -15°~90°	Pan: 0°~360° endless Tilt: 0°~90°	Pan: 0°~360° endless Tilt: 0°~90°
Preset Speed	Pan: 400°/s; Tilt: 300°/s	Pan: 400°/s; Tilt: 300°/s	Pan: 400°/s; Tilt: 300°/s	Pan: 500°/s; Tilt: 500°/s	Pan: 500°/s; Tilt: 500°/s
Intelligent Video	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection
Compatibility	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API
Audio In/Out	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	2/1	2/1	2/1	2/1	2/1
Ingress Protection	IP66	IP66	IP66	IP67, IK10	IP67, IK10
Working Temperature	-40°C~+70°C(-40°F~+158°F)	-40°C~+70°C(-40°F~+158°F)	-40°C~+70°C(-40°F~+158°F)	-40°C~+60°C(-40°F~+140°F)	-40°C~+60°C(-40°F~+140°F)
Power	AC24V, PoE+(802.3at) Max. 23W	AC24V, PoE+(802.3at) Max. 23W	AC24V, PoE+(802.3at) Max. 23W	AC24V, PoE+(802.3at) Max. 23W	AC24V, PoE+(802.3at) Max. 23W

NETWORK PTZ CAMERAS

Pro Series

	Outdoor PTZ Camera	In-ceiling PTZ Camera			Zoom Camera
Model	SD50225U-HNI	SD52C430U-HNI	SD52C230U-HNI	SD52C225U-HNI	SDZ2030S-N
Appearance	 H.265+ Starlight	 H.265+	 H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/3" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	4.8~120mm (25x Optical zoom)	4.5~135mm (30x Optical zoom)	4.5~135mm (30x Optical zoom)	4.8~120mm (25x Optical zoom)	4.5~135mm (30x Optical zoom)
FOV-H	62.8°~2.6°	60°~2.2°	67.8°~2.4°	62.8°~2.6°	67.8°~2.4°
Min. Illumination	0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W)	0.05Lux/F1.6(Color) 0.005Lux/F1.6(B/W)	0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W)	0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W)	0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W)
WDR	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	--	--	--	--	--
Video Compression	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264
Max. Resolution	1080P(1920×1080)	4MP(2592×1520)	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)
Frame Rate	60fps@1080P	30fps@4MP/3MP 60fps@1080P	60fps@1080P	60fps@1080P	60fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless Tilt: 0°~90°	Pan: 0°~360° endless Tilt: 0°~90°	Pan: 0°~360° endless Tilt: 0°~90°	Pan: 0°~360° endless Tilt: 0°~90°	--
Preset Speed	Pan: 500°/s; Tilt: 500°/s	Pan: 500°/s; Tilt: 500°/s	Pan: 500°/s; Tilt: 500°/s	Pan: 500°/s; Tilt: 500°/s	--
Intelligent Video	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection
Compatibility	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API
Audio In/Out	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	2/1	2/1	2/1	2/1	2/1
Ingress Protection	IP67, IK10	IK10	IK10	IK10	--
Working Temperature	-40°C~+60°C(-40°F~+140°F)	-30°C~+60°C(-22°F~+140°F)	-30°C~+60°C(-22°F~+140°F)	-30°C~+60°C(-22°F~+140°F)	-40°C~+70°C(-40°F~+158°F)
Power	AC24V, PoE+(802.3at) Max. 23W	AC24V, PoE+(802.3at) Max. 13W	AC24V, PoE+(802.3at) Max. 13W	AC24V, PoE+(802.3at) Max. 13W	DC12V, PoE(802.3af) Max. 10W

Lite AI Series

The Lite AI Series PTZ offers a cost/performance solution suitable for a range of applications. Its compact design built with Dahua quality standards and assurance enables the entire range to meet your requirements.

⊕ KEY FEATURES

Compact Design

Small PTZ cameras;
Can fit in a number
of places

Mini IR PTZ

Pan / tilt / zoom and IR
functionality in compact
housing

Advanced Intelligence

IVS and Face Detection
ensure efficient
surveillance

Powerful Zoom

Up to 25x optical zoom
easily covers large areas

Cost-Effective

Performance and quality
are combined at an
affordable price

PFA

Improve focusing
performance to a new
level

NETWORK PTZ CAMERAS

Lite AI Series

	Outdoor IR PTZ Camera		Mini IR PTZ Camera	Outdoor 4G PTZ Camera
Model	SD49425XB-HNR	SD49225XA-HNR	SD1A404XB-GNR	SD49425XB-HNR-G
Appearance	 AI H.265+ Starlight	 AI H.265+ Starlight	 AI H.265+ Starlight	 AI H.265+ Starlight
Image Sensor	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS	1/2.8" STARVIS™ CMOS
Lens	4.8 mm~120 mm (25x Optical zoom)	4.8 mm~120 mm (25x Optical zoom)	2.8 mm~12 mm (4x Optical zoom)	4.8 mm~120 mm (25x Optical zoom)
FOV-H	60.0°~2.5°	62.8°~2.6°	31.6°~96.9°	60.0°~2.5°
Min. Illumination	0.005Lux/F1.6(Color) 0Lux/F1.6 (IR on)	0.005Lux/F1.6(Color) 0Lux/F1.6 (IR on)	0.005Lux/F1.8(Color) 0Lux/F1.8 (IR on)	0.005Lux/F1.6(Color) 0Lux/F1.6 (IR on)
WDR	120dB	120dB	120dB	120dB
Max. IR Distance	100 m (328.08 ft)	100 m (328.08 ft)	15 m (49.21 ft)	100 m (328.08 ft)
Video Compression	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264
Max. Resolution	4MP (2560 × 1440)	1080P (1920 × 1080)	4MP (2560 × 1440)	4MP (2560 × 1440)
Frame Rate	30fps@4MP	30fps@1080P	30fps@4MP	30fps@4MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless Tilt: -15°~90°	Pan: 0°~360° endless Tilt: -15°~90°	Pan: 0°~355° Tilt: 5°~90°	Pan: 0°~360° endless Tilt: -15°~90°
Preset Speed	Pan: 240°/s; Tilt: 200°/s	Pan: 240°/s; Tilt: 200°/s	Pan: 80°/s; Tilt: 40°/s	Pan: 240°/s; Tilt: 200°/s
Compatibility	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API
Audio In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	2/1	2/1	--	2/1
Ingress Protection	IP66	IP66	IP66, IK08	IP66
Working Temperature	-40°C ~ +70°C (-40°F ~ +158°F)	-40°C ~ +70°C (-40°F ~ +158°F)	-30°C ~ +60°C (-22°F ~ 140°F)	-40°C ~ +70°C (-40°F ~ +158°F)
Power	DC12V, POE+ (802.3at) Max. 22W	DC12V, POE+ (802.3at) Max. 22W	DC12V, POE (802.3af) Max. 8.5W	DC12V, POE+ (802.3at) Max. 22W
Artificial Intelligence				
Perimeter Protection	Tripwire, Intrusion(Human & Vehicle classification)	Tripwire, Intrusion(Human & Vehicle classification)	Tripwire, Intrusion(Human & Vehicle classification)	Tripwire, Intrusion(Human & Vehicle classification)
SMD	Supported	Supported	Supported	Supported
Auto Tracking	--	--	--	--
Smart Capture	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported

NETWORK PTZ CAMERAS

Lite Series

	Outdoor IR PTZ Camera			Outdoor PTZ Camera	Indoor PTZ Camera	In-ceiling PTZ Camera
Model	SD49412T-HN	SD49225T-HN	SD49212T-HN	SD40212T-HN (-S2)	SD42212T-HN (-S2)	SD42C212T-HN (-S2)
Appearance	 H.265	 H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight red dot award 2015 Winner	 H.265+ Starlight
Image Sensor	1/3" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	5.3~64mm (12x Optical zoom)	4.8~120mm (25x Optical zoom)	5.3~64mm (12x Optical zoom)	5.3~64mm (12x Optical zoom)	5.3~64mm (12x Optical zoom)	5.3~64mm (12x Optical zoom)
FOV-H	58.2°~4.8°	62.8°~2.6°	58.2°~4.8°	58.2°~4.8°	58.2°~4.8°	58.2°~4.8°
Min. Illumination	0.05Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.005Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.005Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.005Lux/F1.6(Color) 0.0005Lux/F1.6 (B/W)	0.005Lux/F1.6(Color) 0.0005Lux/F1.6 (B/W)	0.005Lux/F1.6(Color) 0.0005Lux/F1.6 (B/W)
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	100m(328ft)	100m(328ft)	100m(328ft)	--	--	--
Video Compression	H.265/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264
Max. Resolution	4MP(2592×1520)	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)
Frame Rate	30fps@4MP/3MP	30fps@1080P	30fps@1080P	30fp@1080P	30fp@1080P	30fp@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless Tilt: -15°~90°	Pan: 0°~360° endless Tilt: -15°~90°	Pan: 0°~360° endless Tilt: -15°~90°	Pan: 0°~360° endless Tilt: -2°~90°	Pan: 0°~360° endless Tilt: -2°~90°	Pan: 0°~360° endless Tilt: -2°~90°
Preset Speed	Pan: 240°/s, Tilt: 200°/s	Pan: 240°/s, Tilt: 200°/s	Pan: 240°/s, Tilt: 200°/s	Pan: 300°/s, Tilt: 200°/s	Pan: 300°/s; Tilt: 200°/s	Pan: 300°/s; Tilt: 200°/s
Intelligent Video	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection
Compatibility	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API
Audio In/Out	1/1	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	2/1	2/1	2/1	2/1	2/1	2/1
Ingress Protection	IP66	IP66	IP66	IP66, IK10	IP66, IK10	IK10
Working Temperature	-40°C~-70°C(-40°F~+158°F)	-40°C~-70°C(-40°F~+158°F)	-40°C~-70°C(-40°F~+158°F)	-40°C~-60°C (-40°F~+140°F)	-30°C~-60°C (-22°F~+140°F)	-30°C~-60°C (-22°F~+140°F)
Power	DC12V, PoE+(802.3at) Max. 22W	DC12V, PoE+(802.3at) Max. 22W	DC12V, PoE+(802.3at) Max. 22W	AC24V, PoE+(802.3at) Max. 22W	AC24V, PoE+(802.3at) Max. 12W	AC24V, PoE+(802.3at) Max. 12W

NETWORK PTZ CAMERAS

Lite Series

	Mini IR PTZ Camera	Mini PTZ Camera		Mini IR PTZ Camera	
Model	SD29204UE-GN	SD22404T-GN	SD22204UE-GN	SD1A203T-GN	PTZ1C203UE-GN
Appearance	 H.265+ Starlight	 H.265	 H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/3" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	2.7~11mm (4x Optical zoom)	2.7~11mm (4x Optical zoom)	2.7~11mm (4x Optical zoom)	2.7~8.1mm (3x optical zoom)	2.7~8.1mm (3x Optical zoom)
FOV-H	112.5°~30°	112.5°~30°	112.5°~30°	105.6° ~ 35.2°	105.6° ~ 35.2°
Min. Illumination	0.005Lux/F1.6(Color) 0Lux/F1.6(IR on)	0.05Lux/F1.6(Color) 0.005Lux/F1.6(B/W)	0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W)	0.005Lux/F1.8(Color) 0Lux/F1.8 (IR on)	0.005Lux/F1.6(Color) 0Lux@F1.6(IR on)
WDR	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	30m(98ft)	--	--	15m(49ft)	20m (65.6ft)
Video Compression	H.265+/H.265 H.264+/H.264	H.265/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264
Max. Resolution	1080P(1920×1080)	4MP(2592×1520)	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)
Frame Rate	30fps@1080P	30fps@4MP/3MP	30fps@1080P	30fps@1080P	30fps@1080P 60fps@720P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° limited Tilt: 0°~90°	Pan: 0°~355° Tilt: 0°~90°	Pan: 0°~355° Tilt: 0°~90°	Pan: 0° ~ 355° Tilt: 5° ~ 90°	Pan: 0° ~ 180° Tilt: -5° ~ 55°
Preset Speed	Pan: 100°/s; Tilt: 60°/s	Pan: 100°/s; Tilt: 60°/s	Pan: 100°/s; Tilt: 60°/s	Pan: 80° /s; Tilt: 40° /s	--
Intelligent Video	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection
Compatibility	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G,API
Audio In/Out	Built-in Mic	--	--	1(Mic in/Line in)/1	1(Mic in/Line in)/1
Memory Slot	Micro SD, Max. 128GB	Micro SD, Max. 256GB	Micro SD, Max. 128GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	--	--	--	--
Ingress Protection	--	IP66, IK10	IP66, IK10	IP66, IK08	IP66
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C ~ +60°C (-22°F~+140°F)	-30°C ~ +60°C (-22°F~ +140°F)
Power	DC12V, PoE(802.3af) Max. 13W	DC12V, PoE(802.3af) Max. 10W	DC12V, PoE(802.3af) Max. 10W	DC12V, PoE(802.3af) Max. 10.5W	DC12V, PoE(802.3af) Max. 11W

Wi-Fi Series

The Wi-Fi Series PTZ offers an alternative solution with Wi-Fi technology to reduce cabling and maintenance costs. The series is suitable for indoor or near-building outdoor applications.

⊕ KEY FEATURES

Compact Design

Small PTZ cameras;
Can fit in a number
of places

Wire-Free

Wi-Fi technology
provides easy
installation without
cables

Powerful Zoom

Up to 25x optical
zoom easily covers
large areas

PFA

Improve focusing
performance to a new
level

NETWORK PTZ CAMERAS

Wi-Fi Series

	Outdoor IR PTZ Camera	Mini IR PTZ Camera
Model	SD49225T-HN-W	SD29204UE-GN-W
Appearance	 H.265+ Starlight 	 H.265+ Starlight
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	4.8~120mm (25x Optical zoom)	2.7~11mm (4x Optical zoom)
FOV-H	62.8°~2.6°	112.5°~30°
Min. Illumination	0.005Lux/F1.6(Color) 0Lux@F1.6(IR on)	0.005Lux/F1.6(Color) 0Lux@F1.6(IR on)
WDR	120dB	120dB
Max. IR Distance	100m(328ft)	30m(98ft)
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Max. Resolution	1080P(1920×1080)	1080P(1920×1080)
Frame Rate	30fps@1080P	30fps@1080P
Multi-streaming	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless Tilt: -15°~90°	Pan: 0°~360° limited Tilt: 0°~90°
Preset Speed	Pan: 240°/s, Tilt: 200°/s	Pan: 100°/s, Tilt: 60°/s
Intelligent Video	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection
Compatibility	ONVIF profile S&G, API	ONVIF profile S&G, API
Audio In/Out	1/1	Built-in Mic
Memory Slot	Micro SD Max. 256GB	Micro SD Max. 128GB
Alarm In/Out	2/1	--
Wi-Fi	Wi-Fi (IEEE802.11a/b/g/n/ac) Dual-Band Wi-Fi	Wi-Fi (IEEE802.11b/g/n)
Ingress Protection	IP66	--
Working Temperature	-40°C~+70°C (-40°F~+158°F)	-30°C~+60°C (-22°F~+140°F)
Power	DC12V, Max. 22W	DC12V, Max. 13W

NETWORK PTZ CAMERAS

Wi-Fi Series

Mini IR PTZ Camera

Model	SD22404T-GN-W	SD22204UE-GN-W	SD1A203T-GN-W	PTZ1C203UE-GN-W
Appearance	 	  	  	  
Image Sensor	1/3" 2MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	2.7~11mm (4x Optical zoom)	2.7~11mm (4x Optical zoom)	2.7~8.1mm (3x optical zoom)	2.7~8.1mm (3x Optical zoom)
FOV-H	112.5° ~ 30°	112.5°~30°	105.6° ~ 35.2°	105.6° ~ 35.2°
Min. Illumination	0.05Lux/F1.6(Color) 0.005Lux/F1.6(B/W)	0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W)	0.005Lux/F1.8(Color) 0Lux/F1.8(IR on)	0.005Lux/F1.6(Color) 0Lux@F1.6(IR on)
WDR	120dB	120dB	120dB	120dB
Max. IR Distance	--	--	15m(49ft)	20m (65.6ft)
Video Compression	H.265/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Max. Resolution	4M(2592×1520)	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)
Frame Rate	30fps@1080P	30fps@1080P	30fps@1080P	30fps@1080P, 60fps@720P
Multi-streaming	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~355° Tilt: 0°~90°	Pan: 0°~355° Tilt: 0°~90°	Pan: 0° ~ 355° , Tilt: 5° ~ 90°	Pan: 0° ~ 180°, Tilt:-5° ~ 55°
Preset Speed	Pan: 100°/s, Tilt: 60°/s	Pan: 100°/s, Tilt: 60°/s	Pan: 80° /s, Tilt: 40° /s	--
Intelligent Video	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection
Compatibility	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G,API
Audio In/Out	--	--	1(Mic in/Line in)/1	1(Mic in/Line in)/1
Memory Slot	Micro SD Max. 256GB	Micro SD Max. 128GB	Micro SD Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	--	--	--
Wi-Fi	Wi-Fi (IEEE802.11b/g/n)	Wi-Fi (IEEE802.11b/g/n)	Wi-Fi (IEEE802.11a/b/g/n/ac) Dual-Band Wi-Fi	Wi-Fi (IEEE802.11a/b/g/n/ac) Dual-Band Wi-Fi
Ingress Protection	IP66,IK10	IP66, IK10	IP66,IK08	IP66
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C ~ +60°C (-22°F~+140°F)	-30°C ~ +60°C, (-22°F~+140°F)
Power	DC12V, Max. 10W	DC12V, Max. 10W	DC12V, Max. 10.5W	DC12V, Max. 11W

All-environment Series

All-environment series is designed for projects with the highest performance requirements and special requirements such as explosive and corrosive environment surveillance. Most of these models can be mounted upright(some of them can be mounted both upright and inverted).

⊕ KEY FEATURES

Automated Surveillance

Intelligent auto-tracking PTZ tracks suspicious objects

Superior Image

Starlight / Ultra WDR provides clear image under any light conditions

Powerful Zoom

25x / 30x / 40x / 48x optical zoom easily covers large areas

Super IR Range

Cameras provide up to 1200m IR range for performance even in dark environments

PFA

Improve focusing performance to a new level

NETWORK PTZ CAMERAS

All-environment

Ultra AI Series IR Positioning System

Model	PTZ85848-HNF-WA	PTZ85260-HNF-WA
Appearance	   	   
Image Sensor	1/1.8" 2MP CMOS	1/1.8" 2MP CMOS
Lens	6.25 mm ~ 300 mm(48x Optical zoom)	5.6 mm ~ 336 mm(60x Optical zoom)
FOV-H	64.9° ~ 1.8°	64.9° ~ 1.4°
Min. Illumination	0.005Lux/F1.4(Color) 0Lux/F1.4 (IR on)	0.005Lux/F1.4(Color) 0Lux/F1.4 (IR on)
WDR	120dB	120dB
Max. IR Distance	400 m (1312.34 ft)	400 m (1312.34 ft)
Video Compression	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264
Max. Resolution	4k (3840 x 2160)	1080P (1920 x 1080)
Frame Rate	30fps@4K	30fps@1080P
Multi-streaming	3 streams	3 streams
Pan/Tilt	Pan: 0° ~ 360° endless Tilt: -90°~45°	Pan: 0° ~ 360° endless Tilt: -90°~45°
Preset Speed	Pan: 160°/s; Tilt: 60°/s	Pan: 160°/s; Tilt: 60°/s
Compatibility	ONVIF profile S&G, API	ONVIF profile S&G, API
Audio In/Out	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	7/2	7/2
Ingress Protection	IP67	IP67
Working Temperature	-40°C~+70°C(-40°F~+158°F)	-40°C~+70°C(-40°F~+158°F)
Power	DC36V, Max. 61.6W	DC36V, Max. 61.6W
Artificial Intelligence		
Perimeter Protection	Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing	Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing
Auto Tracking	Supported	Supported
Metadata	Supported	Supported
Face Recognition	--	--
Face Detection	Supported	Supported

NETWORK PTZ CAMERAS

All-environment

	Ultra AI Series IR Positioning System		Ultra AI Series IR Positioning System	Pro AI Series IR Positioning System
Model	PTZ83840-HNF-WA	PTZ83440-HNF-WA	PTZ83240-HNF-WA	PTZ1A225XA-HNR
Appearance	    	   	   	   
Image Sensor	1/1.8" 8MP STARVIS™ CMOS	1/1.8" 4MP CMOS	1/1.8" 2MP CMOS	1/2.8" STARVIS™ CMOS
Lens	5.6 mm~223 mm (40x Optical zoom)	5.6mm~223mm (40x Optical zoom)	5.6 mm~223 mm (40x Optical zoom)	4.8 mm~120 mm (25x Optical zoom)
FOV-H	63.9°~2.0°	63.9° ~ 2.0°	70.3° ~ 1.8°	62.8°~2.6°
Min. Illumination	0.002Lux/F1.4(Color) 0Lux/ (IR on)	0.001Lux/F1.4(Color) 0Lux/ (IR on)	0.001Lux/F1.4(Color) 0Lux/ (IR on)	0.005Lux/F1.6(Color) 0Lux/F1.6 (IR on)
WDR	120dB	120dB	120dB	120dB
Max. IR Distance	400 m (1312.24 ft)	400 m (1312.24 ft)	400 m (1312.24 ft)	150 m (492.13 ft)
Video Compression	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264
Max. Resolution	4K(3840×2160)	4M(2560×1440)	1080P(1920×1080)	1080P(1920×1080)
Frame Rate	30fps@4K	30fps@4M	60fps@2M	30fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0° ~ 360° endless Tilt: -90°~45°	Pan: 0° ~ 360° endless Tilt: -90°~45°	Pan: 0° ~ 360° endless Tilt: -90°~45°	Pan: 0°~360° endless Tilt: -90°~90° (Effective angle: -51°~+90°)
Preset Speed	Pan: 160°/s; Tilt: 60°/s	Pan: 160°/s; Tilt: 60°/s	Pan: 160°/s; Tilt: 60°/s	Pan: 180° /s; Tilt: 120° /s
Compatibility	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API
Audio In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	7/2	7/2	7/2	2/1
Ingress Protection	IP67	IP67	IP67	IP67, IK10
WorkingTemperature	-40°C ~ +70°C(-40°F~+158°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)
Power	DC36V, Max.61.35W	DC36V, Max.61.35W	DC36V, Max.61.35W	AC12V,POE+(802.3at), Max.22W
Artificial Intelligence				
Perimeter Protection	Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing	Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing	Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing	Tripwire, Intrusion(Human & Vehicle classification) , Object Abandoned, Object Missing
Auto Tracking	Supported	Supported	Supported	Supported
Metadata	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	--
Face Detection	Supported	Supported	Supported	Supported

NETWORK PTZ CAMERAS

All-environment

	IR Positioning System	RoboPTZ Series IR Positioning System		Anti-corrosion PTZ Camera		
Model	PTZ12248V-LR8-N	PTZ1A225U-IRA-N	PTZ19245U-IRB-N(-B)	SD60230U-HNI-SL	SDZW2030U-SL	SDZW2000T-SL
Appearance	 H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight
Image Sensor	1/1.8" 2MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	5.7~275mm (48x Optical zoom)	4.8~120mm (25x Optical zoom)	3.95~177.7mm (45x Optical zoom)	4.5~135mm (30x Optical zoom)	4.5~135mm (30x Optical zoom)	3.6mm/F2.1 6mm/F2.0
FOV-H	64.6°~1.5°	62.8°~2.6°	70.3°~1.8°	67.8° ~ 2.4°	67.8° ~ 2.4°	87° / 51°
Min. Illumination	0.001Lux/F1.4(Color) 0Lux/F1.4 (IR on)	0.005Lux/F1.6(Color) 0Lux/F1.6 (IR on)	0.005Lux/F1.6(Color) 0Lux/F1.6 (IR on)	0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W)	0.005Lux/F1.6(Color) 0Lux/F1.6 (IR on)	0.005Lux/F2.1(Color) 0Lux/F2.1 (IR on)
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	1200 m (3937ft)	150m(492ft)	350m(1148ft)	--	100m (328ft)	30m (98ft)
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Max. Resolution	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)
Frame Rate	60fps@1080P	60fps@1080P	60fps@1080P	60fp@1080P	60fp@1080P	60fp@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless Tilt: -90°~45°	Pan: 0°~360° endless Tilt: -90°~90° (Effective angle: -51°~+90°)	Pan: 0° ~ 360° endless Tilt: 0° ~ 360° endless (Effective angle: -55°~+223°)	Pan: 0° ~ 360° endless Tilt: -20° ~ 90°	--	--
Preset Speed	Pan: 160°/s; Tilt: 60°/s	Pan: 180°/s, Tilt: 120°/s	Pan: 200° /s; Tilt: 120° /s	Pan: 600° /s; Tilt: 500° /s	--	--
Intelligent Video	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face Detection	Tripwire, Intrusion Abandoned/Missing Face detection	Tripwire, Intrusion Abandoned/Missing Face detection	Tripwire, Intrusion Abandoned/Missing Face detection
Compatibility	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API	ONVIF profile S&G, API
Audio In/Out	1/1	1/1	1/1	1/1	1/1	--
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	--
Alarm In/Out	7/2	2/1	7/2	7/2	2/2	--
Ingress Protection	IP66	IP67, IK10	IP68	IP68, IK10	IP68	IP68, IK10
Working Temperature	-40°C~+70°C(-40°F~+158°F)	-40°C~+70°C(-40°F~+158°F)	-50°C~+70°C(-58°F~+158°F) -40°C~+70°C(-40°F~+158°F) (-B Model)	-40°C ~ +70°C(-40°F~+158°F)	-40°C ~ +70°C(-40°F~+158°F)	-40°C ~ +60°C(-40°F~+140°F)
Power	AC24V Max. 90W	DC12V, PoE+(802.3at) Max. 22W	AC24V: Max. 80W AC24V(-B Model), Hi-PoE: Max. 40W	AC24V, PoE+(802.3at) Max. 20W	AC24V, DC12V, PoE+(802.3at) Max. 25W	DC12V, PoE(802.3af) Max. 5W

NETWORK PTZ CAMERAS

All-environment

Explosion-proof Camera

Model	EPC230U	EPC245U-PTZ	EPC245U-PTZ-IR	EPC230U-PTZ	EPC230U-PTZ-IR
Appearance	 H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	4.5~135mm (30x Optical zoom)	3.95~177.7mm (45x Optical zoom)	3.95~177.7mm (45x Optical zoom)	4.5~135mm (30x Optical zoom)	4.5~135mm (30x Optical zoom)
FOV-H	67.8° ~ 2.4°	70.3° ~ 1.8°	70.3° ~ 1.8°	67.8° ~ 2.4°	67.8° ~ 2.4°
Min. Illumination	0.005Lux/F1.6(Color) 0Lux/F1.6 (IR on)	0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W)	0.005Lux/F1.6(Color) 0Lux/F1.6 (IR on)	0.005Lux/F1.6(Color) 0.0005Lux/F1.6(B/W)	0.005Lux/F1.6(Color) 0Lux/F1.6 (IR on)
WDR	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	100m (328ft)	--	200m (656ft)	--	100m (328ft)
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Max. Resolution	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)	1080P(1920×1080)
Frame Rate	60fp@1080P	60fps@1080P	60fps@1080P	60fp@1080P	60fp@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	--	Pan: 0° ~ 360° endless Tilt: -90° ~ 90°	Pan: 0° ~ 360° endless Tilt: -90° ~ 90°	Pan: 0° ~ 360° endless Tilt: -90° ~ 90°	Pan: 0° ~ 360° endless Tilt: -90° ~ 90°
Preset Speed	--	Pan: 40° /s; Tilt: 40° /s	Pan: 40° /s; Tilt: 40° /s	Pan: 40° /s; Tilt: 40° /s	Pan: 40° /s; Tilt: 40° /s
Intelligent Video	Tripwire, Intrusion Abandoned/Missing Face detection	Tripwire, Intrusion Abandoned/Missing Face detection	Tripwire, Intrusion Abandoned/Missing Face detection	--	--
Compatibility	ONVIF profile S&G, API	ONVIF profile S&G,API	ONVIF profile S&G,API	ONVIF profile S&G, API	ONVIF profile S&G, API
Audio In/Out	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	2/1	2/1	2/1	2/1	2/1
Ingress Protection	IP68	IP68	IP68	IP68	IP68
Working Temperature	-40°C ~ +60°C(-40°F~+140°F)	-40°C ~ +60°C(-40°F ~ +140°F)	-40°C ~ +60°C(-40°F ~ +140°F)	-40°C ~ +60°C(-40°F~+140°F)	-40°C ~ +60°C(-40°F~+140°F)
Power	AC220V(AC100V~240V), Hi-PoE Max. 25W	AC220V(AC100V ~ 240V) Max. 60W	AC220V(AC100V ~ 240V) Max. 75W	AC220V(AC100V ~ 240V) Max. 60W	AC220V(AC100V ~ 240V) Max. 75W

NETWORK THERMAL CAMERAS



NETWORK THERMAL CAMERAS

Ultra Series

The Ultra Series is designed for projects with the highest quality and performance requirements. Together with thermal and starlight technology, a rich selection of various resolutions and lens configurations, this series provides an all-in-one solution that is especially beneficial for long - distance video surveillance in any outdoor applications.

⊕ KEY FEATURES

Advanced Sensors

Uncooled Vox Microbolometer, High thermal sensitivity (<40mK)

Superior Image

Together with Thermal and Starlight technology for monitoring in total darkness

Great Selection

Wide range of housings and models to suit all requirements

Powerful Lens

Various lens configurations, powerful optical zoom (thermal and visible)

Advanced Intelligence

High accuracy IVS, long- distance fire detection & alarm

Temperature Measurement

Wide temperature measurement range -20°C ~ +550°C(T model)

Ultra Series

	Model	TPC-PT8621C	TPC-PT8421C	TPC-PT8621B	TPC-PT8421B
Appearance					
Thermal	Image Sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
	Effective Pixels	640(H) × 512(V)	400(H) × 300(V)	640(H) × 512(V)	400(H) × 300(V)
	Sensitivity	<40mK	<40mK	<40mK	<40mK
Thermal	Lens	100mm 20mm ~ 100mm (Optional) 30mm ~ 150mm (Optional) 38mm ~ 190mm (Optional)	100mm 20mm ~ 100mm (Optional) 30mm ~ 150mm (Optional) 38mm ~ 190mm (Optional)	100mm 20mm ~ 100mm (Optional) 30mm ~ 150mm (Optional) 38mm ~ 190mm (Optional)	100mm 20mm ~ 100mm (Optional) 30mm ~ 150mm (Optional) 38mm ~ 190mm (Optional)
	FOV-H	H: 6.2° H: 31.6° ~ 6.2° (Optional) H: 20.6° ~ 4.2° (Optional) H: 16.7° ~ 3.5° (Optional)	H: 3.9° H: 19.3° ~ 3.9° (Optional) H: 12.9° ~ 2.6° (Optional) H: 10.2° ~ 2.1° (Optional)	H: 6.2° H: 31.6° ~ 6.2° (Optional) H: 20.6° ~ 4.2° (Optional) H: 16.7° ~ 3.5° (Optional)	H: 3.9° H: 19.3° ~ 3.9° (Optional) H: 12.9° ~ 2.6° (Optional) H: 10.2° ~ 2.1° (Optional)
Visible	Image Sensor	2M CMOS	2M CMOS	2M CMOS	2M CMOS
	Lens	6.6mm ~ 330mm 21mm ~ 500mm (Optional) 12.5mm ~ 750mm (Optional) 16.7mm ~ 1000mm (Optional)	6.6mm ~ 330mm 21mm ~ 500mm (Optional) 12.5mm ~ 750mm (Optional) 16.7mm ~ 1000mm (Optional)	6.6mm ~ 330mm 21mm ~ 500mm (Optional) 12.5mm ~ 750mm (Optional) 16.7mm ~ 1000mm (Optional)	6.6mm ~ 330mm 21mm ~ 500mm (Optional) 12.5mm ~ 750mm (Optional) 16.7mm ~ 1000mm (Optional)
	FOV-H	H: 42.34° ~ 1.1° H: 23.5° ~ 1.0° (Optional) H: 35.1° ~ 0.6° (Optional) H: 20.51° ~ 0.22° (Optional)	H: 42.34° ~ 1.1° H: 23.5° ~ 1.0° (Optional) H: 35.1° ~ 0.6° (Optional) H: 20.51° ~ 0.22° (Optional)	H: 42.34° ~ 1.1° H: 23.5° ~ 1.0° (Optional) H: 35.1° ~ 0.6° (Optional) H: 20.51° ~ 0.22° (Optional)	H: 42.34° ~ 1.1° H: 23.5° ~ 1.0° (Optional) H: 35.1° ~ 0.6° (Optional) H: 20.51° ~ 0.22° (Optional)
Laser Range Finder(Optional)	Wavelength	1.57μm (Eye safe)	1.57μm (Eye safe)	--	--
	Effective Distance	50 ~ 5000m (164ft ~ 16404ft)	50 ~ 5000m (164ft ~ 16404ft)	--	--
	Accuracy	±2m	±2m	--	--
Laser Illuminator (Optional)	Wavelength	808±5nm	808±5nm	--	--
	Effective Distance	1000m (3281ft)	1000m (3281ft)	--	--
	Angle of Laser Beam	1° ~ 30°	1° ~ 30°	--	--
General	Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
	Frame Rate	Thermal: 1280 × 1024 (default)/720P@1~25/30fps Visible: 1080P (default)/720P@1~25/30fps	Thermal: 1280 × 1024 (default)/720P@1~25/30fps Visible: 1080P (default)/720P@1~25/30fps	Thermal: 1280 × 1024 (default)/720P@1~25/30fps Visible: 1080P (default)/720P@1~25/30fps	Thermal: 1280 × 1024 (default)/720P@1~25/30fps Visible: 1080P (default)/720P@1~25/30fps
	Pan/Tilt Range	300 presets, Pan: 0° ~ 360° endless, Tilt: -60° ~ 45°, Tilt: -60° ~ 60° (Optional)	300 presets, Pan: 0° ~ 360° endless, Tilt: -60° ~ 45°, Tilt: -60° ~ 60° (Optional)	300 presets, Pan: 0° ~ 360° endless, Tilt: -60° ~ 45°, Tilt: -60° ~ 60° (Optional)	300 presets, Pan: 0° ~ 360° endless, Tilt: -60° ~ 45°, Tilt: -60° ~ 60° (Optional)
	Intelligent Video	IVS, Human/Vehicle classification Fire detection & alarm	IVS, Human/Vehicle classification Fire detection & alarm	IVS, Human/Vehicle classification Fire detection & alarm	IVS, Human/Vehicle classification Fire detection & alarm
	Compatibility	ONVIF Profile S&G, API	ONVIF Profile S&G, API	ONVIF Profile S&G, API	ONVIF Profile S&G, API
	Ingress Protection	IP66	IP66	IP66	IP66
	Working Temperature	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C
	Power	AC100V ~ 300V, <100W	AC100V ~ 300V, <100W	AC100V ~ 300V, <100W	AC100V ~ 300V, <100W

NETWORK THERMAL CAMERAS

Ultra Series

	Model	TPC-PT8621A	TPC-PT8421A	TPC-SD8621-T	TPC-SD8621	TPC-SD8421-T	TPC-SD8421
Appearance							
Thermal	Image Sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
	Effective Pixels	640(H) x 512(V)	400(H) x 300(V)	640(H) x 512(V)	640(H) x 512(V)	400(H) x 300(V)	400(H) x 300(V)
	Sensitivity	<40mK	<40mK	<40mK	<40mK	<40mK	<40mK
	Lens	35mm/50mm/75mm/100mm	35mm/50mm/75mm/100mm	7.5mm/13mm/25mm	25mm/35mm/50mm	7.5mm/13mm/25mm	25mm/35mm/50mm
	FOV-H	H: 17.6°/12.4°/8.3°/6.2°	H: 11.1°/7.8°/5.2°/3.9°	H: 24.6°/17.6°/12.4°	H: 24.6°/17.6°/12.4°	H: 15.5°/10.9°/7.7°	H: 15.5°/10.9°/7.7°
	Temperature Range & Accuracy	--	--	Low Temperature: -20°C ~ +150°C High Temperature: 0°C ~ +550°C Max (±2°C, ±2%)/Operating Temperature(-10°C ~ 50°C)	--	Low Temperature: -20°C ~ +150°C High Temperature: 0°C ~ +550°C Max (±2°C, ±2%)/Operating Temperature(-10°C ~ 50°C)	--
	Measurement Rule	--	--	Spot: 12/Line: 12/Area: 12 Support 12 rules per preset simultaneously	--	Spot: 12/Line: 12/Area: 12 Support 12 rules per preset simultaneously	--
	Temperature Alarm	--	--	Support	--	Support	--
Visible	Image Sensor	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS
	Lens	6.6mm ~ 330mm	6.6mm ~ 330mm	3.95mm ~ 177.7mm	3.95mm ~ 177.7mm	3.95mm ~ 177.7mm	3.95mm ~ 177.7mm
	FOV-H	H: 42.34° ~ 1.10°	H: 42.34° ~ 1.10°	H: 70.3° ~ 1.8°	H: 70.3° ~ 1.8°	H: 70.3° ~ 1.8°	H: 70.3° ~ 1.8°
	Min. Illumination	0.016Lux@F1.5 (Color) 0.0175Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.016Lux@F1.5 (Color) 0.0175Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.005Lux@F1.6 (Color) 0.0005Lux@F1.6 (B/W) 0Lux@F1.6 (IR On)	0.005Lux@F1.6 (Color) 0.0005Lux@F1.6 (B/W) 0Lux@F1.6 (IR On)	0.005Lux@F1.6 (Color) 0.0005Lux@F1.6 (B/W) 0Lux@F1.6 (IR On)	0.005Lux@F1.6 (Color) 0.0005Lux@F1.6 (B/W) 0Lux@F1.6 (IR On)
	IR Distance	100m (328ft)	100m (328ft)	100m (328ft)	100m (328ft)	100m (328ft)	100m (328ft)
General	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	H.265/H.264/MJPEG
	Frame Rate	Thermal: 1280 × 1024 (default)/720P@1~25/30fps Visible: 1080P (default)/720P@1~25/30fps	Thermal: 1280 × 1024 (default)/720P@1~25/30fps Visible: 1080P (default)/720P@1~25/30fps	Thermal: 1280 × 1024/720P/640 × 512 @25/30fps Visible: 1080P/720P/D1@25/30fps	Thermal: 1280 × 1024/720P/640 × 512 @25/30fps Visible: 1080P/720P/D1@25/30fps	Thermal: 1280 × 1024/720P/400 × 300 @25/30fps Visible: 1080P/720P/D1@25/30fps	Thermal: 1280 × 1024/720P/400 × 300 @25/30fps Visible: 1080P/720P/D1@25/30fps
	Pan/Tilt Range	300 presets, Pan: 0° ~ 360° endless Tilt: -90° ~ 40°	300 presets, Pan: 0° ~ 360° endless Tilt: -90° ~ 40°	300 presets, Pan: 0° ~ 360° endless Tilt: -10° ~ 90°	300 presets, Pan: 0° ~ 360° endless Tilt: -10° ~ 90°	300 presets, Pan: 0° ~ 360° endless Tilt: -10° ~ 90°	300 presets, Pan: 0° ~ 360° endless Tilt: -10° ~ 90°
	Intelligent Video	IVS, Human/Vehicle classification Fire detection & alarm	IVS, Human/Vehicle classification Fire detection & alarm	IVS, Human/Vehicle classification Fire detection & alarm, Cold/Hot spot trace, Auto Tracking	IVS, Human/Vehicle classification Fire detection & alarm, Cold/Hot spot trace, Auto Tracking	IVS, Human/Vehicle classification Fire detection & alarm, Cold/Hot spot trace, Auto Tracking	IVS, Human/Vehicle classification Fire detection & alarm, Cold/Hot spot trace, Auto Tracking
	Compatibility	ONVIF Profile S&G, API	ONVIF Profile S&G, API	ONVIF Profile S&G, API	ONVIF Profile S&G, API	ONVIF Profile S&G, API	ONVIF Profile S&G, API
	Ingress Protection	IP66	IP66	IP66	IP66	IP66	IP66
	Working Temperature	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +60°C	-40°C ~ +60°C	-40°C ~ +60°C	-40°C ~ +60°C
	Power	AC24V, <65W	AC24V, <65W	AC24V, <38W	AC24V, <38W	AC24V, <38W	AC24V, <38W

NETWORK THERMAL CAMERAS

Ultra Series

	Model	TPC-BF8621	TPC-BF8421	TPC-PT8620A-T	TPC-PT8420A-T	TPC-PT8620M-T	TPC-PT8420M-T
Appearance							
Thermal	Image Sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
	Effective Pixels	640(H) x 512(V)	400(H) x 300(V)	640(H) x 512(V)	400(H) x 300(V)	640(H) x 512(V)	400(H) x 300(V)
	Sensitivity	<40mK	<40mK	<40mK	<40mK	<40mK	<40mK
	Lens	25mm/35mm/50mm 75mm/100mm	25mm/35mm/50mm 75mm/100mm	35mm/60mm/100mm	35mm/60mm/100mm	19mm/25mm	19mm/25mm
	FOV-H	H: 24.6°/17.6°/12.4°/8.3°/6.2°	H: 15.5°/11.1°/7.8°/5.2°/3.9°	H: 17.2°/10.3°/6.2°	H: 10.9°/6.5°/3.9°	H: 31.6°/24.6°	H: 20.4°/15.5°
	Temperature Range & Accuracy	--	--	Low Temperature: -20°C ~ +150°C High Temperature: 0°C ~ +550°C Max (±2°C, ±2%)/Operating Temperature (-10°C ~ 50°C)	Low Temperature: -20°C ~ +150°C High Temperature: 0°C ~ +550°C Max (±2°C, ±2%)/Operating Temperature (-10°C ~ 50°C)	Low Temperature: -20°C ~ +150°C High Temperature: 0°C ~ +550°C Max (±2°C, ±2%)/Operating Temperature (-10°C ~ 50°C)	Low Temperature: -20°C ~ +150°C High Temperature: 0°C ~ +550°C Max (±2°C, ±2%)/Operating Temperature (-10°C ~ 50°C)
	Measurement Rule	--	--	Spot: 12/Line: 12/Area: 12 Support 12 rules per preset simultaneously	Spot: 12/Line: 12/Area: 12 Support 12 rules per preset simultaneously	Spot: 12/Line: 12/Area: 12 Support 12 rules per preset simultaneously	Spot: 12/Line: 12/Area: 12 Support 12 rules per preset simultaneously
	Temperature Alarm	--	--	Support	Support	Support	Support
Visible	Image Sensor	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS
	Lens	3.95mm ~ 177.7mm	3.95mm ~ 177.7mm	6mm ~ 180mm	6mm ~ 180mm	6mm ~ 180mm	6mm ~ 180mm
	FOV-H	H: 70.3° ~ 1.8°	H: 70.3° ~ 1.8°	H: 42.34° ~ 1.10°	H: 42.34° ~ 1.10°	H: 59° ~ 2.4°	H: 59° ~ 2.4°
	Min. Illumination	0.005Lux@F1.6 (Color) 0.0005Lux@F1.6 (B/W) 0Lux@F1.6 (IR On)	0.005Lux@F1.6 (Color) 0.0005Lux@F1.6 (B/W) 0Lux@F1.6 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)
General	IR Distance	100m (328ft)	100m (328ft)	150m (492ft)	150m (492ft)	150m (492ft)	150m (492ft)
	Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
	Frame Rate	Thermal: 1280 × 960/XVGA/ VGA/256 × 192 @25/30fps Visible: 1080P/720P/D1/CIF @25/30fps	Thermal: 1280 × 960/XVGA/ VGA/256 × 192 @25/30fps Visible: 1080P/720P/D1/CIF @25/30fps	Thermal: 1280 × 1024 (default)/720P@1~25/30fps Visible: 1080P (default)/720P@1~25/30fps	Thermal: 1280 × 1024 (default)/720P@1~25/30fps Visible: 1080P (default)/720P@1~25/30fps	Thermal: 1280 × 1024 (default)/720P@1~25/30fps Visible: 1080P (default)/720P@1~25/30fps	Thermal: 1280 × 1024 (default)/720P@1~25/30fps Visible: 1080P (default)/720P@1~25/30fps
	Pan/Tilt Range	--	--	300 presets Pan: 0° ~ 360° endless Tilt: -90° ~ 40°	300 presets Pan: 0° ~ 360° endless Tilt: -90° ~ 40°	300 presets Pan: 0° ~ 360° endless Tilt: -90° ~ 90°	300 presets Pan: 0° ~ 360° endless Tilt: -90° ~ 90°
	Intelligent Video	IVS, Human/Vehicle classification, Fire detection & alarm, Cold/Hot spot trace, Auto Tracking	IVS, Human/Vehicle classification, Fire detection & alarm, Cold/Hot spot trace, Auto Tracking	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm
	Compatibility	ONVIF Profile S&G, API	ONVIF Profile S&G, API	ONVIF Profile S&G, API	ONVIF Profile S&G, API	ONVIF Profile S&G, API	ONVIF Profile S&G, API
	Ingress Protection	IP67	IP67	IP66	IP66	IP66	IP66
	Working Temperature	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +60°C	-40°C ~ +60°C	-40°C ~ +60°C	-40°C ~ +60°C
	Power	AC12V/PoE+, <16W	AC12V/PoE+, <16W	AC24V, <70W	AC24V, <70W	DC9V ~ 36V, <50W	DC9V ~ 36V, <50W

Pro Series

The Pro Series is suitable for applications which require high performance and reliability. It can provide a 24h x 7days monitoring solution. Using uncooled Vox sensor technology, their small size and better performance make them easy to install and the best solution for thermal security.

⊕ KEY FEATURES

Advanced Sensor

Uncooled Vox Microbolometer, High thermal sensitivity (<40mK)

Superior Image

High thermal technology for monitoring in total darkness

Powerful Lens

Various lens configurations, athermalized lens, focus-free

Advanced Intelligence

High accuracy IVS, fire detection & alarm

Temperature Measurement

Wide temperature measurement range -20°C ~ +550°C (T model)

NETWORK THERMAL CAMERAS

Pro Series

	Model	TPC-BF5601-T	TPC-BF5601	TPC-BF5401-T	TPC-BF5401
Appearance					
Thermal	Image Sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
	Effective Pixels	640(H) x 512(V)	640(H) x 512(V)	400(H) x 300(V)	400(H) x 300(V)
	Sensitivity	<40mK	<40mK	<40mK	<40mK
	Lens	7.5mm/13mm/25mm	7.5mm/13mm/25mm/35mm	7.5mm/13mm/25mm	7.5mm/13mm/25mm/35mm
	FOV-H	H: 91.2°/48.9°/24.6°	H: 91.2°/48.9°/24.6°/17.6°	H: 53.7°/30.2°/15.5°	H: 53.7°/30.2°/15.5°/11.1°
	Digital Zoom	4x	4x	4x	4x
	Temperature Range & Accuracy	Low Temperature: -20°C ~ +150°C High Temperature: 0°C ~ +550°C Max (±2°C, ±2%)/Operating Temperature (-10°C ~ 50°C)	--	Low Temperature: -20°C ~ +150°C High Temperature: 0°C ~ +550°C Max (±2°C, ±2%)/Operating Temperature (-10°C ~ 50°C)	--
	Measurement Rule	Spot: 12/Line: 12/Area: 12 Support 12 rules simultaneously	--	Spot: 12/Line: 12/Area: 12 Support 12 rules simultaneously	--
General	Temperature Alarm	Support	--	Support	--
	Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
	Frame Rate	1280 × 1024/720P/640 × 512 @25/30fps	1280 × 1024/720P/640 × 512 @25/30fps	1280 × 1024/720P/400 × 300 @25/30fps	1280 × 1024/720P/400 × 300 @25/30fps
	Intelligent Video	IVS, Human/Vehicle classification, Fire detection & alarm, Cold/Hot spot trace	IVS, Human/Vehicle classification, Fire detection & alarm, Cold/Hot spot trace	IVS, Human/Vehicle classification, Fire detection & alarm, Cold/Hot spot trace	IVS, Human/Vehicle classification, Fire detection & alarm, Cold/Hot spot trace
	Compatibility	ONVIF Profile S&G, API	ONVIF Profile S&G, API	ONVIF Profile S&G, API	ONVIF Profile S&G, API
	Ingress Protection	IP67	IP67	IP67	IP67
	Working Temperature	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C
	Power	DC12V/PoE/ePoE, <13W	DC12V/PoE/ePoE, <13W	DC12V/PoE/ePoE, <13W	DC12V/PoE/ePoE, <13W

 • Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.4w
• ePoE only works with ePoE devices

NETWORK THERMAL CAMERAS

Lite Series

The Lite Series is a good choice for users who want high performance for surveillance but have budget constraints. A small size, dual-channel spectrum, and the powerful combination of visible light and thermal imaging, this series integrates advanced Dahua image analysis and intelligent algorithms, providing a one-stop solution for small or medium sized monitoring applications.

⊕ KEY FEATURES

Advanced Sensors

Uncooled Vox Microbolometer, Sony 1/2.8" 2M CMOS

Compact Design

Featuring a small size, and powerful combination of visible light and thermal imaging

Advanced Intelligence

High accuracy IVS, fire detection & alarm

Temperature Measurement

Wide temperature measurement range -20°C ~+ 550°C (T model)

Cost-Effective

Performance and quality are combined at an affordable price

Lite Series

	Model	TPC-SD2221-T	TPC-SD2221	TPC-BF2221-T	TPC-BF2221
Appearance					
Thermal	Image Sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
	Effective Pixels	256(H) x 192(V)	256(H) x 192(V)	256(H) x 192(V)	256(H) x 192(V)
	Sensitivity	≤50mK	≤50mK	≤50mK	≤50mK
	Lens	3.5mm/7mm	3.5mm/7mm	3.5mm/7mm	3.5mm/7mm
	Angle of View	H: 50.6°/24°	H: 50.6°/24°	H: 50.6°/24°	H: 50.6°/24°
	Temperature Range & Accuracy	Low temperature mode: -20°C ~ +150°C High temperature mode: 0°C ~ +550°C Max (±5°C, ±5%) Operating temperature: -10°C ~ +50°C	--	Low temperature mode: -20°C ~ +150°C High temperature mode: 0°C ~ +550°C Max (±5°C, ±5%) Operating temperature: -10°C ~ +50°C	--
Visible	Measurement Rule	Support 12 rules simultaneously	--	Support 12 rules simultaneously	--
	Temperature Alarm	Supported	--	Supported	--
	Image Sensor	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS	1/2.8" 2M CMOS
	Lens	4mm/8mm	4mm/8mm	4mm/8mm	4mm/8mm
	Angle of View	H: 84°/40°	H: 84°/40°	H: 84°/40°	H: 84°/40°
	Min. Illumination	0.005Lux (Color) 0.0005Lux (B/W) 0Lux (IR On)	0.005Lux (Color) 0.0005Lux (B/W) 0Lux (IR On)	0.005Lux (Color) 0.0005Lux (B/W) 0Lux (IR On)	0.005Lux (Color) 0.0005Lux (B/W) 0Lux (IR On)
General	IR Distance	35m/50m	35m/50m	35m/50m	35m/50m
	Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
	Frame Rate	Thermal: 1280 × 960/XVGA/ VGA/256 × 192 @25/30fps Visible: 1080P/720P/D1/CIF @25/30fps	Thermal: 1280 × 960/XVGA/ VGA/256 × 192 @25/30fps Visible: 1080P/720P/D1/CIF @25/30fps	Thermal: 1280 × 960/XVGA/ VGA/256 × 192 @25/30fps Visible: 1080P/720P/D1/CIF @25/30fps	Thermal: 1280 × 960/XVGA/ VGA/256 × 192 @25/30fps Visible: 1080P/720P/D1/CIF @25/30fps
	Pan/Tilt Range	300 presets Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	300 presets Pan: 0° ~ 360° endless Tilt: -15° ~ 90°	--	--
	Intelligent Video	IVS, Human/Vehicle classification, Fire detection & alarm, Cold/ Hot spot trace, Auto Tracking, Smoking Detection	IVS, Human/Vehicle classification, Fire detection & alarm, Cold/ Hot spot trace, Auto Tracking, Smoking Detection	IVS, Human/Vehicle classification, Fire detection & alarm, Cold/Hot spot trace, Smoking Detection	IVS, Human/Vehicle classification, Fire detection & alarm, Cold/Hot spot trace, Smoking Detection
	Compatibility	ONVIF Profile S&G, API	ONVIF Profile S&G, API	ONVIF Profile S&G, API	ONVIF Profile S&G, API
	Ingress Protection	IP66	IP66	IP67	IP67
	Working Environment	-30°C ~ +60°C	-30°C ~ +60°C	-30°C ~ +60°C	-30°C ~ +60°C
	Power	DC12V/PoE+, <24W	DC12V/PoE+, <24W	DC12V/PoE/ePoE, <12W	DC12V/PoE/ePoE, <12W

 Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.4w
• ePoE only works with ePoE devices

Anti - corrosion Series

The Anti-corrosion Series is designed for projects with the long-lasting performance requirements in harsh environments. With anti-corrosion coating technology, and all products of this series have passed NEMA 4X test standard and can provide a high performance surveillance solution for highly corrosive environments such as saltwater and salt - spray conditions.

⊕ KEY FEATURES

Advanced Sensors

Uncooled Vox Microbolometer, Sony 1/1.9" 2M CMOS

Superior Image

Together with Thermal and Starlight technology for monitoring in total darkness

Powerful Lens

Various lens configurations, powerful optical zoom (thermal and visible)

Advanced Intelligence

High accuracy IVS, long distance fire detection & alarm

NEMA 4X Report

NEMA 4X-rated anti-corrosion for long-lasting performance in corrosive environments

NETWORK THERMAL CAMERAS

Anti-corrosion Series

	Model	TPC-ACPT8620C	TPC-ACPT8420C	TPC-ACPT8620B	TPC-ACPT8420B
Appearance					
Thermal	Image Sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
	Effective Pixels	640(H) x 512(V)	400(H) x 300(V)	640(H) x 512(V)	400(H) x 300(V)
	Sensitivity	<40mK	<40mK	<40mK	<40mK
	Lens	20mm ~ 100mm 30mm ~ 150mm (Optional)	20mm ~ 100mm 30mm ~ 150mm (Optional)	20mm ~ 100mm 30mm ~ 150mm (Optional)	20mm ~ 100mm 30mm ~ 150mm (Optional)
	FOV-H	H: 31.6° ~ 6.2° H: 21.0° ~ 4.1° (Optional)	H: 19.3° ~ 3.9° H: 12.9° ~ 2.6° (Optional)	H: 31.6° ~ 6.2° H: 21.0° ~ 4.1° (Optional)	H: 19.3° ~ 3.9° H: 12.9° ~ 2.6° (Optional)
Visible	Image Sensor	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS
	Lens	15.6mm ~ 500mm 12.5mm ~ 775mm (Optional)	15.6mm ~ 500mm 12.5mm ~ 775mm (Optional)	15.6mm ~ 500mm 12.5mm ~ 775mm (Optional)	15.6mm ~ 500mm 12.5mm ~ 775mm (Optional)
	FOV-H	H: 27.5° ~ 0.9° H: 28.8° ~ 0.5° (Optional)	H: 27.5° ~ 0.9° H: 28.8° ~ 0.5° (Optional)	H: 27.5° ~ 0.9° H: 28.8° ~ 0.5° (Optional)	H: 27.5° ~ 0.9° H: 28.8° ~ 0.5° (Optional)
	Min. Illumination	0.002Lux@F1.5 (Color) 0.0005Lux@F1.5 (B/W)	0.002Lux@F1.5 (Color) 0.0005Lux@F1.5 (B/W)	0.002Lux@F1.5 (Color) 0.0005Lux@F1.5 (B/W)	0.002Lux@F1.5 (Color) 0.0005Lux@F1.5 (B/W)
Laser Range Finder (Optional)	Wavelength	1.57μm (Eye safe)	1.57μm (Eye safe)	--	--
	Effective Distance	50 ~ 5000m (164ft ~ 16404ft)	50 ~ 5000m (164ft ~ 16404ft)	--	--
	Accuracy	±2m	±2m	--	--
Laser Illuminator (Optional)	Wavelength	808±5nm	808±5nm	--	--
	Effective Distance	1000m (3281ft)	1000m (3281ft)	--	--
	Angle of Laser Beam	1° ~ 30°	1° ~ 30°	--	--
General	Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
	Frame Rate	Thermal: 1280 × 1024 (default) 720P@1~25/30fps Visible: 1080P (default) 720P@1~25/30fps	Thermal: 1280 × 1024 (default) 720P@1~25/30fps Visible: 1080P (default) 720P@1~25/30fps	Thermal: 1280 × 1024 (default) 720P@1~25/30fps Visible: 1080P (default) 720P@1~25/30fps	Thermal: 1280 × 1024 (default) 720P@1~25/30fps Visible: 1080P (default) 720P@1~25/30fps
	Pan/Tilt Range	300 presets, Pan: 0° ~ 360° endless, Tilt: -60° ~ 45° Tilt: -60° ~ 60° (Optional)	300 presets, Pan: 0° ~ 360° endless, Tilt: -60° ~ 45° Tilt: -60° ~ 60° (Optional)	300 presets, Pan: 0° ~ 360° endless, Tilt: -60° ~ 45° Tilt: -60° ~ 60° (Optional)	300 presets, Pan: 0° ~ 360° endless, Tilt: -60° ~ 45° Tilt: -60° ~ 60° (Optional)
	Intelligent Video	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm
	Compatibility	ONVIF Profile S&G, API	ONVIF Profile S&G, API	ONVIF Profile S&G, API	ONVIF Profile S&G, API
	Ingress Protection	IP66	IP66	IP66	IP66
	Corrosion Protection	NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X
	Working Temperature	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C
	Power	AC100V ~ 300V, <150W	AC100V ~ 300V, <150W	AC100V ~ 300V, <100W	AC100V ~ 300V, <100W

NETWORK THERMAL CAMERAS

Anti-corrosion Series

	Model	TPC-ACPT8620A	TPC-ACPT8420A	TPC-ACSD8620A	TPC-ACSD8420A
	Appearance				
Thermal	Image Sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
	Effective Pixels	640(H) x 512(V)	400(H) x 300(V)	640(H) x 512(V)	400(H) x 300(V)
	Sensitivity	<40mK	<40mK	<40mK	<40mK
	Lens	35mm/60mm	35mm/60mm	25mm/35mm	25mm/35mm
	FOV-H	H: 17.2°/10.3°	H: 10.9°/6.5°	H: 24.6°/17.2°	H: 15.5°/10.9°
Visible	Image Sensor	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS
	Lens	6mm ~ 180mm	6mm ~ 180mm	6mm ~ 180mm	6mm ~ 180mm
	FOV-H	H: 59° ~ 2.4°	H: 59° ~ 2.4°	H: 59° ~ 2.4°	H: 59° ~ 2.4°
	Min. Illumination	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)
	IR Distance	150m (492ft)	150m (492ft)	150m (492ft)	150m (492ft)
General	Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
	Frame Rate	Thermal: 1280 × 1024 (default)/720P@1~25/30fps Visible: 1080P (default)/720P@1~25/30fps	Thermal: 1280 × 1024 (default)/720P@1~25/30fps Visible: 1080P (default)/720P@1~25/30fps	Thermal: 1280 × 1024 (default)/720P@1~25/30fps Visible: 1080P (default)/720P@1~25/30fps	Thermal: 1280 × 1024 (default)/720P@1~25/30fps Visible: 1080P (default)/720P@1~25/30fps
	Pan/Tilt Range	300 presets, Pan: 0° ~ 360° endless, Tilt: -90° ~ 40°	300 presets, Pan: 0° ~ 360° endless, Tilt: -90° ~ 40°	300 presets, Pan: 0° ~ 360° endless, Tilt: -90° ~ 40°	300 presets, Pan: 0° ~ 360° endless, Tilt: -90° ~ 40°
	Intelligent Video	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm
	Compatibility	ONVIF Profile S&G, API	ONVIF Profile S&G, API	ONVIF Profile S&G, API	ONVIF Profile S&G, API
	Ingress Protection	IP66	IP66	IP66	IP66
	Corrosion Protection	NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X
	Working Temperature	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C
	Power	AC24V, <70W	AC24V, <70W	AC24V, <38W	AC24V, <38W

NETWORK VIDEO RECORDERS



NETWORK VIDEO RECORDERS

Ultra AI Series

The Ultra AI series which adopts the advanced GPU and industrial design delivers more powerful artificial intelligence performance. It is the best choice for large-scaled project. Featuring with face recognition, perimeter protection, and metadata algorithm, it provides real-time event alarms, accurate and quick objects targeting for end-users.

⊕ KEY FEATURES

Scalable GPU

Powerful and scalable GPU design meets all kinds of projects

Perimeter Protection

Filters out false alarms caused by animals, rustling leaves, bright lights, etc. Improving alarm accuracy/safety

Face Recognition

Supports record faces by structured data and real-time crosscheck with incredible accuracy to figure out the face with target features

Metadata

Attribute information extracted from target object, including human/human face/ motor vehicle/non-motor vehicle

Rich Feature

ANPR
Fisheye dewarp

Ultra AI Series

Ultra AI Series

Model	IVSS7024(DR)-16I	IVSS7024(DR)-8I
Appearance		
Processor	Intel Quad Core CPU	Intel Quad Core CPU
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
IP Video Inputs	256 channel	256 channel
Max Input/Record	512Mbps/384Mbps	512Mbps/384Mbps
Max Decoding	24ch@1080P	24ch@1080P
Display	3HDMI, 1VGA, LCD(optional)	3HDMI, 1VGA, LCD(optional)
Max HDD	24×10TB	24×10TB
RAID	0/1/5/10	0/1/5/10
eSATA/Mini SAS	1/2	1/2
Audio In/Out	1/1	1/1
Alarm In/Out	16/8	16/8
Ethernet	4 Gigabit Ports, 4 Gigabit Fiber Optical Interface	4 Gigabit Ports, 4 Gigabit Fiber Optical Interface
PoE	--	--
USB	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0
Power	AC100V~240V, Redundant(optional) <144W(Without HDD)	AC100V~240V, Redundant(optional) <120W(Without HDD)
Star Features	--	--
Artificial Intelligence		
Perimeter Protection by device	Up to 256 channel perimeter protection	Up to 128 channel perimeter protection
Face Recognition by device	Up to 256 channels face recognition with FD camera; Up to 128 channels face recognition with normal camera; 50 face database with up to 300,000 face images in total	Up to 160 channels face recognition with FD camera; Up to 64 channels face recognition with normal camera; 50 face database with up to 300,000 face images in total
Metadata by device	Metadata of Human face/Human body/ Motor Vehicle/Non-motor Vehicle	Metadata of Human face/Human body/ Motor Vehicle/Non-motor Vehicle
Image search	Search by face/human images	Search by face/human images
General Intelligence		
IVS by camera	Tripwire, Intrusion, Abandoned/Missing, Scene Change, Lottering Detection, Parking Detection and People Gathering	Tripwire, Intrusion, Abandoned/Missing, Scene Change, Lottering Detection, Parking Detection and People Gathering
Face Detection by camera	Supported	Supported
People Counting by camera	--	--
Heat Map by camera	--	--
ANPR by camera	Supported	Supported

NETWORK VIDEO RECORDERS

Ultra AI Series

Ultra AI Series

Model	IVSS7016(DR)-8I	IVSS7016(DR)-4I	IVSS7008-2I	IVSS7008-1I
Appearance				
Processor	Intel Quad Core CPU	Intel Quad Core CPU	Intel Dual Core CPU	Intel Dual Core CPU
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
IP Video Inputs	256 channel	256 channel	128 channel	128 channel
Max Input/Record	512Mbps/384Mbps	512Mbps/384Mbps	400Mbps/320Mbps	400Mbps/320Mbps
Max Decoding	24ch@1080P	24ch@1080P	20ch@1080P	20ch@1080P
Display	3HDMI, 1VGA, LCD(optional)	3HDMI, 1VGA, LCD(optional)	3HDMI, 2VGA	3HDMI, 2VGA
Max HDD	16×10TB	16×10TB	8×10TB	8×10TB
RAID	0/1/5/10	0/1/5/10	0/1/5/10	0/1/5/10
eSATA/Mini SAS	1/2	1/2	1/--	1/--
Audio In/Out	1/1	1/1	1/2	1/2
Alarm In/Out	16/8	16/8	16/8	16/8
Ethernet	4 Gigabit Ports, 4 Gigabit Fiber Optical Interface	4 Gigabit Ports, 4 Gigabit Fiber Optical Interface	4 Gigabit Ports	4 Gigabit Ports
PoE	--	--	--	--
USB	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0
Power	AC100V~240V, Redundant(optional) <122W(Without HDD)	AC100V~240V, Redundant(optional) <110W(Without HDD)	AC100V~240V <43W(Without HDD)	AC100V~240V <40W(Without HDD)
Star Features	--	--	--	--
Artificial Intelligence				
Perimeter Protection by device	Up to 128 channel perimeter protection	Up to 64 channel perimeter protection	Up to 32 channel perimeter protection	Up to 16 channel perimeter protection
Face Recognition by device	Up to 160 channels face recognition with FD camera; Up to 64 channels face recognition with normal camera; 50 face database with up to 300,000 face images in total	Up to 80 channels face recognition with FD camera; Up to 32 channels face recognition with normal camera; 50 face database with up to 300,000 face images in total	Up to 40 channels face recognition with FD camera; Up to 16 channels face recognition with normal camera; 50 face database with up to 300,000 face images in total	Up to 20 channels face recognition with FD camera; Up to 8 channels face recognition with normal camera; 50 face database with up to 300,000 face images in total
Metadata by device	Metadata of Human face/Human body/ Motor Vehicle/Non-motor Vehicle		Metadata of Human face/Human body/ Motor Vehicle/Non-motor Vehicle	
Image search	Search by face/human images	Search by face/human images	Search by face/human images	Search by face/human images
General Intelligence				
IVS by camera	Tripwire, Intrusion, Abandoned/Missing, Scene Change, Lottering Detection, Parking Detection and People Gathering	Tripwire, Intrusion, Abandoned/Missing, Scene Change, Lottering Detection, Parking Detection and People Gathering	Tripwire, Intrusion, Abandoned/Missing, Scene Change, Lottering Detection, Parking Detection and People Gathering	Tripwire, Intrusion, Abandoned/Missing, Scene Change, Lottering Detection, Parking Detection and People Gathering
Face Detection by camera	Supported	Supported	Supported	Supported
People Counting by camera	--	--	--	--
Heat Map by camera	--	--	--	--
ANPR by camera	Supported	Supported	Supported	Supported

NETWORK VIDEO RECORDERS

Ultra Series

The Ultra Series is an ideal option for applications which require top-level performance and the highest reliability. A multi-core CPU and redundant design ensures stability while advanced intelligent features provide complex applications with intelligent video analytics.

⊕ KEY FEATURES

Powerful Processor

Multi-core Intel CPU provides high-performance processing

Industrial Design

High quality redundant-enabled design ensures high reliability and data safety

Rich Features

Fisheye dewarp, POS, ANPR, N+M fail-over

Advanced Intelligence

IVS and Face Detection ensure efficient surveillance

Ultra Series

16HDD Ultra 4K & H.265 NVR

Model	NVR616DR-128-4KS2	NVR616R-128-4KS2
Appearance	 	 
Processor	Intel Quad Core CPU	Intel Quad Core CPU
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
IP Video Inputs	128 channel	128 channel
Max Input/Record	384Mbps/384Mbps	384Mbps/384Mbps
Max Decoding	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P
Display	2HDMI, 1VGA, LCD	2HDMI, 1VGA
Max HDD	16x8TB	16x8TB
RAID	0/1/5/10	0/1/5/10
eSATA/Mini SAS	1/1	1/1
Audio In/Out	1/1, 2-way	1/1, 2-way
Alarm In/Out	16/8	16/8
Ethernet	4 Gigabit Ports, 2 Gigabit Fiber Optical Interface	4 Gigabit Ports, 2 Gigabit Fiber Optical Interface
PoE	--	--
USB	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0
Power	AC100V~240V, Redundant <51W(Without HDD)	AC100V~240V, Redundant <51W(Without HDD)
Star Features	Fisheye Dewarp, Smart Track, POS, N+M	Fisheye Dewarp, Smart Track, POS, N+M
Artificial Intelligence		
Perimeter Protection by camera	--	--
Face Recognition by camera	--	--
Metadata by camera	--	--
General Intelligence		
IVS by camera	Tripwire, Intrusion, Abandoned/Missing, Scene Change	Tripwire, Intrusion, Abandoned/Missing, Scene Change
Face Detection by camera	Supported	Supported
People Counting by camera	Supported	Supported
Heat Map by camera	Supported	Supported
ANPR by camera	Supported	Supported

NETWORK VIDEO RECORDERS

Ultra Series

16HDD Ultra 4K & H.265 NVR

Model	NVR616D-128-4KS2	NVR616-128-4KS2	NVR616DR-64-4KS2	NVR616R-64-4KS2	NVR616D-64-4KS2	NVR616-64-4KS2
Appearance	 H.265+	 H.265+	 H.265+	 H.265+	 H.265+	 H.265+
Processor	Intel Quad Core CPU	Intel Quad Core CPU	Intel Quad Core CPU	Intel Quad Core CPU	Intel Quad Core CPU	Intel Quad Core CPU
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
IP Video Inputs	128 channel	128 channel	64 channel	64 channel	64 channel	64 channel
Max Input/Record	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps
Max Decoding	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P
Display	2HDMI, 1VGA, LCD	2HDMI, 1VGA	2HDMI, 1VGA, LCD	2HDMI, VGA	2HDMI, 1VGA, LCD	2HDMI, 1VGA
Max HDD	16x8TB	16x8TB	16x8TB	16x8TB	16x8TB	16x8TB
RAID	0/1/5/10	0/1/5/10	0/1/5/10	0/1/5/10	0/1/5/10	0/1/5/10
eSATA/Mini SAS	1/1	1/1	1/1	1/1	1/1	1/1
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	16/8	16/8	16/8	16/8	16/8	16/8
Ethernet	4 Gigabit Ports, 2 Gigabit Fiber Optical Interface	4 Gigabit Ports, 2 Gigabit Fiber Optical Interface	4 Gigabit Ports, 2 Gigabit Fiber Optical Interface	4 Gigabit Ports, 2 Gigabit Fiber Optical Interface	4 Gigabit Ports, 2 Gigabit Fiber Optical Interface	4 Gigabit Ports, 2 Gigabit Fiber Optical Interface
PoE	--	--	--	--	--	--
USB	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0
Power	AC100V~240V <51W(Without HDD)	AC100V~240V <51W(Without HDD)	AC100V~240V, Redundant <51W(Without HDD)	AC100V~240V, Redundant <51W(Without HDD)	AC100V~240V <51W(Without HDD)	AC100V~240V <51W(Without HDD)
Star Features	Fisheye Dewarp, Smart Track, POS, N+M	Fisheye Dewarp, Smart Track, POS, N+M	Fisheye Dewarp, Smart Track, POS, N+M	Fisheye Dewarp, Smart Track, POS, N+M	Fisheye Dewarp, Smart Track, POS, N+M	Fisheye Dewarp, Smart Track, POS, N+M
Artificial Intelligence						
Perimeter Protection by camera	--	--	--	--	--	--
Face Recognition by camera	--	--	--	--	--	--
Metadata by camera	--	--	--	--	--	--
General Intelligence						
IVS by camera	Tripwire, Intrusion, Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change
Face Detection by camera	Supported	Supported	Supported	Supported	Supported	Supported
People Counting by camera	Supported	Supported	Supported	Supported	Supported	Supported
Heat Map by camera	Supported	Supported	Supported	Supported	Supported	Supported
ANPR by camera	Supported	Supported	Supported	Supported	Supported	Supported

NETWORK VIDEO RECORDERS

Ultra Series

8HDD Ultra 4K & H.265 NVR

Model	NVR608R-128-4KS2	NVR608-128-4KS2	NVR608R-64-4KS2	NVR608-64-4KS2	NVR608-32-4KS2
Appearance	 	 	 	 	 
Processor	Intel Quad Core CPU	Intel Quad Core CPU	Intel Quad Core CPU	Intel Quad Core CPU	Intel Dual Core CPU
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
IP Video Inputs	128 channel	128 channel	64 channel	64 channel	32 channel
Max Input/Record	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps
Max Decoding	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P	16ch@1080P
Display	2HDMI, 1VGA	2HDMI, 1VGA	2HDMI, 1VGA	2HDMI, 1VGA	2HDMI, 1VGA
Max HDD	8x8TB	8x8TB	8x8TB	8x8TB	8x8TB
RAID	0/1/5/10	0/1/5/10	0/1/5/10	0/1/5/10	0/1/5/10
eSATA/Mini SAS	1/-	1/-	1/-	1/-	1/-
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	16/8	16/8	16/8	16/8	16/8
Ethernet	2 Gigabit Ports	2 Gigabit Ports	2 Gigabit Ports	2 Gigabit Ports	2 Gigabit Ports
PoE	--	--	--	--	--
USB	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0
Power	AC100V~240V, Redundant <40W(Without HDD)	AC100V~240V <40W(Without HDD)	AC100V~240V, Redundant <40W(Without HDD)	AC100V~240V <40W(Without HDD)	AC100V~240V <40W(Without HDD)
Star Features	Fisheye Dewarp, Smart Track, POS, N+M	Fisheye Dewarp, Smart Track, POS, N+M	Fisheye Dewarp, Smart Track, POS, N+M	Fisheye Dewarp, Smart Track, POS, N+M	Fisheye Dewarp, Smart Track, POS, N+M
Artificial Intelligence					
Perimeter Protection by camera	--	--	--	--	--
Face Recognition by camera	--	--	--	--	--
Metadata by camera	--	--	--	--	--
General Intelligence					
IVS by camera	Tripwire, Intrusion, Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change
Face Detection by camera	Supported	Supported	Supported	Supported	Supported
People Counting by camera	Supported	Supported	Supported	Supported	Supported
Heat Map by camera	Supported	Supported	Supported	Supported	Supported
ANPR by camera	Supported	Supported	Supported	Supported	Supported

Pro AI series

The Pro AI series is the best choice for mid to large-scaled AI solution that needs various kinds of AI applications. It adopts deep learning algorithms that primarily target people and vehicles, providing higher flexibility and accuracy for end-users.

Featuring perimeter protection, metadata, and face recognition, it aims to provide potential risk prevention, real-time event alarm.

⊕ KEY FEATURES

Perimeter Protection

Filters out false alarms caused by animals, rustling, bright lights, etc. Improving alarm accuracy

Face Recognition

Support record faces by structured data and real-time crosscheck with incredible accuracy to figure out the face with target features

Metadata

Attribute information extracted from target object, including / human face/ Motor Vehicle/Non-motor Vehicle

Rich Features

ePoE&EoC, POS, P2P, ANPR

SkyHawk™ Health Management

- Actively protect the data safety
- Embedded software for prevention, intervention
- Drive parameter analysis for actions

NETWORK VIDEO RECORDERS

Pro AI Series

Model	NVR5864-I	NVR5832-I	NVR5432-16P-I	NVR5216-16P-I	NVR5216-8P-I
Appearance	 	 	 	 	 
Processor	Multi-core embedded processor	Multi-core embedded processor	Multi-core embedded processor	Multi-core embedded processor	Multi-core embedded processor
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
IP Video Inputs	64 channel	32 channel	32 channel	16 channel	16 channel
Max Input/Record	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps
Max Decoding	16ch@1080P	16ch@1080P	16ch@1080P	16ch@1080P	16ch@1080P
Display	2HDMI, 1VGA	2HDMI, 1VGA	2HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	8x8TB	8x8TB	4x8TB	2x8TB	2x8TB
RAID	--	--	--	--	--
eSATA/Mini SAS	1/-	1/-	1/-	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	16/6	16/6	16/6	4/2	4/2
Ethernet	2 Gigabit Ports	2 Gigabit Ports	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port
PoE	--	--	16 Ports (IEEE802.3at/af) 1-8 PoE ports support ePoE & EoC, Max 150W	16 Ports (IEEE802.3at/af) 1-8 PoE ports support ePoE & EoC, Max 130W	8 Ports (IEEE802.3at/af) 1-8 PoE ports support ePoE & EoC, Max 130W
USB	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 1 USB2.0	1USB3.0, 1 USB2.0	1USB3.0, 1 USB2.0
Power	AC100V ~ 240V <16.1W(Without HDD)	AC100V ~ 240V <16.1W(Without HDD)	AC100V ~ 240V <21.1W(Without HDD)	AC100V ~ 240V <16.5W(Without HDD)	AC100V ~ 240V <15.6W(Without HDD)
Star Features	POS, P2P	POS, P2P	POS, Plug & Play, P2P	POS, Plug & Play, P2P	POS, Plug & Play, P2P
Artificial Intelligence					
Perimeter Protection by device	Up to 16 channel perimeter protection	Up to 16 channel perimeter protection	Up to 16 channel perimeter protection	Up to 16 channel perimeter protection	Up to 16 channel perimeter protection
Face Recognition by device	Up to 16 channels face recognition with FD camera ; Up to 4 channels face recognition with normal camera; 20 face database with up to 100,000 face images in total				
Metadata by device	Metadata of Human face/Human body/Motor Vehicle/Non-motor Vehicle				
Image search	Search by face images	Search by face images	Search by face images	Search by face images	Search by face images
General Intelligence					
IVS by camera	Tripwire, Intrusion, Abandoned/Missing, Scene Change				
Face Detection by camera	Supported	Supported	Supported	Supported	Supported
People Counting by camera	Supported	Supported	Supported	Supported	Supported
Heat Map by camera	Supported	Supported	Supported	Supported	Supported
ANPR by camera	Supported	Supported	Supported	Supported	Supported



SkyHawk Health Management (SHM) is drive health monitoring software co-developed in cooperation with Seagate.

ePoE • Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.4w
• ePoE only works with ePoE devices

NETWORK VIDEO RECORDERS

Pro Series

The Pro Series is a perfect choice for mid to large-scale business and projects where both high reliability and flexibility are required. Innovative H.265+ encoding technology and special features such as fisheye dewarp, ANPR, and POS further enhance surveillance monitoring.

⊕ KEY FEATURES

Powerful Processor

ARM Cortex A17 quad-core CPU delivers 4ch@4K / 16ch@1080P

H.265+

Advanced encoding saves up to 70% bandwidth and storage

Rich Features

Fisheye dewarp, POS, ANPR, P2P

Advanced Intelligence

IVS and Face Detection ensure efficient surveillance

SkyHawk™ Health Management

- Actively protect the data safety
- Embedded software for prevention, intervention
- Drive parameter analysis for actions

Pro Series

8HDD Professional 4K&H.265 NVR

Model	NVR5832-4KS2	NVR5816-4KS2	NVR5816-16P-4KS2E
Appearance	 	 	 
Processor	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
IP Video Inputs	32 channel	16 channel	16 channel
Max Input/Record	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps
Max Decoding	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P
Display	2HDMI, 2VGA	2HDMI, 2VGA	2HDMI, 2VGA
Max HDD	8×10TB	8×10TB	8×10TB
RAID	--	--	--
eSATA/Mini SAS	1/-	1/-	1/-
Audio In/Out	1/2, 2-way	1/2, 2-way	1/2, 2-way
Alarm In/Out	16/6	16/6	16/6
Ethernet	2 Gigabit Ports	2 Gigabit Ports	1 Gigabit Port
PoE	--	--	16 Ports (IEEE802.3at/af) Max 150W 1-8 PoE ports support ePoE&EoC
USB	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0
Power	AC100V~240V <16.7W(Without HDD)	AC100V~240V <16.7W(Without HDD)	AC100V~240V <17.5W(Without HDD)
Star Features	Fisheye Dewarp, POS, P2P	Fisheye Dewarp, POS, P2P	Fisheye Dewarp, POS, P2P, Plug & Play
Artificial Intelligence			
Perimeter Protection by camera	Supported	Supported	Supported
Face Recognition by camera	Supported	Supported	Supported
Metadata by camera	Supported	Supported	Supported
SMD by camera	Supported	Supported	Supported
General Intelligence			
IVS by camera	Tripwire, Intrusion, Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change
Face Detection by camera	Supported	Supported	Supported
People Counting by camera	Supported	Supported	Supported
Heat Map by camera	Supported	Supported	Supported
ANPR by camera	Supported	Supported	Supported



- Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.4w
- ePoE only works with ePoE devices



SkyHawk Health Management (SHM) is drive health monitoring software co-developed in cooperation with Seagate.

NETWORK VIDEO RECORDERS

Pro Series

4HDD Professional 4K & H.265 NVR

2HDD Professional 4K & H.265 NVR

Model	NVR5432-4KS2	NVR5416-4KS2	NVR5424-24P-4KS2	NVR5416-16P-4KS2E	NVR5232-4KS2
Appearance	 	 	 	 	 
Processor	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
IP Video Inputs	32 channel	16 channel	24 channel	16 channel	32 channel
Max Input/Record	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps
Max Decoding	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P
Display	2HDMI, 2VGA	2HDMI, 2VGA	2HDMI, 1VGA	2HDMI, 2VGA	1HDMI, 1VGA
Max HDD	4x10TB	4x10TB	4x10TB	4x10TB	2x10TB
RAID	--	--	--	--	--
eSATA/Mini SAS	1/-	1/-	1/-	1/-	--
Audio In/Out	1/2, 2-way	1/2, 2-way	1/1, 2-way	1/2, 2-way	1/1, 2-way
Alarm In/Out	16/6	16/6	16/6	16/6	4/2
Ethernet	2 Gigabit Ports	2 Gigabit Ports	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port
PoE	--	--	24 Ports (IEEE802.3at/af) Max 210W	16 Ports (IEEE802.3at/af) Max 150W 1-8 PoE ports support ePoE&EoC	--
USB	2 USB3.0, 1 USB2.0	2 USB3.0, 1 USB2.0	2 USB3.0, 1 USB2.0	2 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0
Power	AC100V~240V <16.7W(Without HDD)	AC100V~240V <16.7W(Without HDD)	AC100V~240V <18W(Without HDD)	AC100V~240V <17.5W(Without HDD)	DC12V/4A <9.5W(Without HDD)
Star Features	Fisheye Dewarp, POS, P2P	Fisheye Dewarp, POS, P2P	Fisheye Dewarp, POS, P2P, Plug & Play	Fisheye Dewarp, POS, P2P, Plug & Play	Fisheye Dewarp, POS, P2P
Artificial Intelligence					
Perimeter Protection by camera	Supported	Supported	Supported	Supported	Supported
Face Recognition by camera	Supported	Supported	Supported	Supported	Supported
Metadata by camera	Supported	Supported	Supported	Supported	Supported
SMD by camera	Supported	Supported	Supported	Supported	Supported
General Intelligence					
IVS by camera	Tripwire, Intrusion, Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change
Face Detection by camera	Supported	Supported	Supported	Supported	Supported
People Counting by camera	Supported	Supported	Supported	Supported	Supported
Heat Map by camera	Supported	Supported	Supported	Supported	Supported
ANPR by camera	Supported	Supported	Supported	Supported	Supported

NETWORK VIDEO RECORDERS

Pro Series

2HDD Professional 4K & H.265 NVR

Model	NVR5216-4KS2	NVR5208-4KS2	NVR5224-24P-4KS2	NVR5216-16P-4KS2E
Appearance	 	 	 	 
Processor	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
IP Video Inputs	16 channel	8 channel	24 channel	16 channel
Max Input/Record	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps	320Mbps/320Mbps
Max Decoding	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	2x10TB	2x10TB	2x10TB	2x10TB
RAID	--	--	--	--
eSATA/Mini SAS	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	4/2	4/2	4/2	4/2
Ethernet	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port
PoE	--	--	24 Ports (IEEE802.3at/af) Max 210W	16 Ports (IEEE802.3at/af) Max 130W 1-8 PoE ports support ePoE&EoC
USB	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0
Power	DC12V/4A <9.5W(Without HDD)	DC12V/4A <9.5W(Without HDD)	AC100V~240V <16W(Without HDD)	AC100V~240V <15.2W(Without HDD)
Star Features	Fisheye Dewarp, POS, P2P	Fisheye Dewarp, POS, P2P	Fisheye Dewarp, POS, P2P Plug & Play	Fisheye Dewarp, POS, P2P Plug & Play
Artificial Intelligence				
Perimeter Protection by camera	Supported	Supported	Supported	Supported
Face Recognition by camera	Supported	Supported	Supported	Supported
Metadata by camera	Supported	Supported	Supported	Supported
SMD by camera	Supported	Supported	Supported	Supported
General Intelligence				
IVS by camera	Tripwire, Intrusion, Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion, Abandoned/Missing, Scene Change
Face Detection by camera	Supported	Supported	Supported	Supported
People Counting by camera	Supported	Supported	Supported	Supported
Heat Map by camera	Supported	Supported	Supported	Supported
ANPR by camera	Supported	Supported	Supported	Supported

Lite AI Series

The Lite AI series as the entry-level AI products has the best cost performance. It is the first choice for SMB solutions. Featuring perimeter protection and face recognition, it aims to provide potential risk prevention, real - time event alarm.

⊕ KEY FEATURES

Perimeter Protection

Filters out false alarms caused by animals, rustling leaves, bright lights, etc. Improving alarm accuracy

Face Recognition

Support record faces by structured data and real - time crosscheck with incredible accuracy to figure out the face with target features.

Other Features

ePoE&EoC, P2P, ANPR

SkyHawk™ Health Management

- Actively protect the data safety
- Embedded software for prevention, intervention
- Drive parameter analysis for actions

NETWORK VIDEO RECORDERS

Lite AI Series

Lite AI Series		
Model	NVR4832-I	NVR4416-16P-I
Appearance	   	  
Processor	Multi-core embedded processor	Multi-core embedded processor
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
IP Video Inputs	32 channel	16 channel
Max Input/Record	200Mbps/200Mbps	200Mbps/200Mbps
Max Decoding	8ch@1080P	8ch@1080P
Display	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	8x8TB	4x8TB
RAID	--	--
eSATA/Mini SAS	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way
Alarm In/Out	16/4	16/4
Ethernet	2 Gigabit Ports	1 Gigabit Port
PoE	--	16 Ports (IEEE802.3at/af) 1-8 PoE ports support ePoE&EoC Max 150W
USB	1 USB3.0, 2 USB2.0	1 USB3.0, 1 USB2.0
Power	AC100V ~ 240V <7.4W(Without HDD)	AC100V ~ 240V <8.2W(Without HDD)
Star Features	P2P	Plug & Play, P2P
Artificial Intelligence		
Perimeter Protection by device	Up to 4 channel perimeter protection	Up to 4 channel perimeter protection
Face Recognition by device	Up to 8 channels face recognition with FD camera ; Up to 2 channels face recognition with normal camera; 10 face database with up to 20,000 face images in total	Up to 8 channels face recognition with FD camera ; Up to 2 channels face recognition with normal camera; 10 face database with up to 20,000 face images in total
Metadata by device	--	--
Image search	Search by face images	Search by face images
General Intelligence		
IVS by camera	Tripwire, Intrusion, Abandoned/Missing, Scene Change	Tripwire, Intrusion, Abandoned/Missing, Scene Change
Face Detection by camera	Supported	Supported
People Counting by camera	Supported	Supported
Heat Map by camera	Supported	Supported
ANPR by camera	Supported	Supported

 • Extended PoE transmission: 800m, 10Mbps, 13w or 300m, 100Mbps, 25.4w
• ePoE only works with ePoE devices

 SkyHawk Health Management (SHM) is drive health monitoring software co-developed in cooperation with Seagate.

NETWORK VIDEO RECORDERS

Lite AI Series

Lite AI Series

Model	NVR4432-I	NVR4216-16P-I	NVR4216-I	NVR4208-8P-I
Appearance	    	    	    	    
Processor	Multi-core embedded processor	Multi-core embedded processor	Multi-core embedded processor	Multi-core embedded processor
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
IP Video Inputs	32 channel	16 channel	16 channel	8 channel
Max Input/Record	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps
Max Decoding	8ch@1080P	8ch@1080P	8ch@1080P	8ch@1080P
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	4x8TB	2x8TB	2x8TB	2x8TB
RAID	--	--	--	--
eSATA/Mini SAS	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	16/4	4/2	4/2	4/2
Ethernet	2 Gigabit Ports	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port
PoE	--	16 Ports (IEEE802.3at/af) 1-8 PoE ports support ePoE&EoC Max 130W	--	8 Ports (IEEE802.3at/af) 1-8 PoE ports support ePoE&EoC Max 130W
USB	1 USB3.0, 1 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	AC100V ~ 240V <7.0W(Without HDD)	AC100V ~ 240V <6.1W(Without HDD)	DC12V/4A <2.9W(Without HDD)	AC100V ~ 240V <6.0W(Without HDD)
Star Features	P2P	Plug & Play, P2P	P2P	Plug & Play, P2P
Artificial Intelligence				
Perimeter Protection by device	Up to 4 channel perimeter protection	Up to 4 channel perimeter protection	Up to 4 channel perimeter protection	Up to 4 channel perimeter protection
Face Recognition by device	Up to 8 channels face recognition with FD camera ; Up to 2 channels face recognition with normal camera; 10 face database with up to 20,000 face images in total		Up to 8 channels face recognition with FD camera ; Up to 2 channels face recognition with normal camera; 10 face database with up to 20,000 face images in total	
Metadata by device	--	--	--	--
Image search	Search by face images	Search by face images	Search by face images	Search by face images
General Intelligence				
IVS by camera	Tripwire, Intrusion, Abandoned/Missing, Scene Change		Tripwire, Intrusion, Abandoned/Missing, Scene Change	
Face Detection by camera	Supported	Supported	Supported	Supported
People Counting by camera	Supported	Supported	Supported	Supported
Heat Map by camera	Supported	Supported	Supported	Supported
ANPR by camera	Supported	Supported	Supported	Supported

NETWORK VIDEO RECORDERS

Lite H.265 Series

Lite H.265 Series

The Lite H.265 Series is designed for best cost performance, and Dahua assured quality. The range supports innovative H.265+ encoding and energy - saving techniques to help save on costs.

⊕ KEY FEATURES

Green-Tech

ARM Cortex 4K processor features enhanced power-saving capabilities

H.265+

Advanced encoding saves up to 70% bandwidth and storage

Wide Selection

Full range of high, middle, and entry-level products

Easy Setup

Plug & play installation, P2P, and smart app for carefree surveillance

SkyHawk™ Health Management

- Actively protect the data safety
- Embedded software for prevention, intervention
- Drive parameter analysis for actions

4HDD Lite 4K & H.265 NVR

Model	NVR4432-4KS2	NVR4416-4KS2	NVR4416-16P-4KS2
Appearance	 	 	 
Processor	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
IP Video Inputs	32 channel	16 channel	16 channel
Max Input/Record	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps
Max Decoding	2ch@8MP/8ch@1080P	2ch@8MP/8ch@1080P	2ch@8MP/8ch@1080P
Display	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA
Max HDD	4x6TB	4x6TB	4x6TB
RAID	--	--	--
eSATA/Mini SAS	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	16/4	16/4	16/4
Ethernet	2 Gigabit Ports	2 Gigabit Ports	1 Gigabit Port
PoE	--	--	16 Ports (IEEE802.3at/af) Max 150W
USB	1 USB3.0, 2 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0
Power	AC100V~240V <11.7W(Without HDD)	AC100V~240V <11.7W(Without HDD)	AC100V~240V <13.7W(Without HDD)
Star Features	P2P	P2P	Plug & Play, P2P
Artificial Intelligence			
Perimeter Protection by camera	Supported	Supported	Supported
Face Recognition by camera	--	--	--
Metadata by camera	--	--	--
SMD by camera	Supported	Supported	Supported
General Intelligence			
IVS by camera	Tripwire, Intrusion, Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change
Face Detection by camera	Supported	Supported	Supported
People Counting by camera	Supported	Supported	Supported
Heat Map by camera	Supported	Supported	Supported
ANPR by camera	--	--	--

NETWORK VIDEO RECORDERS

Lite H.265 Series

2HDD Lite 4K & H.265 NVR

Model	NVR4232-4KS2	NVR4216-4KS2	NVR4208-4KS2	NVR4216-16P-4KS2	NVR4208-8P-4KS2	NVR4204-P-4KS2
Appearance	 	 	 	 	 	 
Processor	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
IP Video Inputs	32 channel	16 channel	8 channel	16 channel	8 channel	4 channel
Max Input/Record	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps	200Mbps/200Mbps
Max Decoding	2ch@8MP/8ch@1080P	2ch@8MP/8ch@1080P	2ch@8MP/8ch@1080P	2ch@8MP/8ch@1080P	2ch@8MP/8ch@1080P	2ch@8MP/8ch@1080P
Display	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA
Max HDD	2x6TB	2x6TB	2x6TB	2x6TB	2x6TB	2x6TB
RAID	--	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	4/2	4/2	4/2	4/2	4/2	4/2
Ethernet	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port
PoE	--	--	--	16 Ports (IEEE802.3at/af) Max 130W	8 Ports (IEEE802.3at/af) Max 130W	4 Ports (IEEE802.3at/af) Max 50W
USB	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0
Power	DC12V/4A <6.9W(Without HDD)	DC12V/4A <6.9W(Without HDD)	DC12V/4A <6.9W(Without HDD)	AC100V~240V <13.2W(Without HDD)	AC100V~240V <9.6W(Without HDD)	DC48V/2A <9W(Without HDD)
Star Features	P2P	P2P	P2P	Plug & Play, P2P	Plug & Play, P2P	Plug & Play, P2P
Artificial Intelligence						
Perimeter Protection by camera	Supported	Supported	Supported	Supported	Supported	Supported
Face Recognition by camera	--	--	--	--	--	--
Metadata by camera	--	--	--	--	--	--
SMD by camera	Supported	Supported	Supported	Supported	Supported	Supported
General Intelligence						
IVS by camera	Tripwire, Intrusion, Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion, Abandoned/Missing, Scene Change	Tripwire, Intrusion Abandoned/Missing, Scene Change	Tripwire, Intrusion, Abandoned/Missing, Scene Change
Face Detection by camera	Supported	Supported	Supported	Supported	Supported	Supported
People Counting by camera	Supported	Supported	Supported	Supported	Supported	Supported
Heat Map by camera	Supported	Supported	Supported	Supported	Supported	Supported
ANPR by camera	--	--	--	--	--	--



NETWORK VIDEO RECORDERS

Lite H.265 Series

	1HDD Compact 1U Lite 4K & H.265 NVR				1HDD Smart 1U Lite 4K & H.265 NVR			
Model	NVR4108HS-4KS2	NVR4104HS-4KS2	NVR4108HS-8P-4KS2	NVR4104HS-P-4KS2	NVR4108-4KS2	NVR4104-4KS2	NVR4108-8P-4KS2	NVR4104-P-4KS2
Appearance	 	 	 	 	 	 	 	 
Processor	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
IP Video Inputs	8 channel	4 channel	8 channel	4 channel	8 channel	4 channel	8 channel	4 channel
Max Input/Record	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps
Max Decoding	2ch@8MP/8ch@1080P	2ch@8MP/8ch@1080P	2ch@8MP/8ch@1080P	2ch@8MP/8ch@1080P	2ch@8MP/8ch@1080P	2ch@8MP/8ch@1080P	2ch@8MP/8ch@1080P	2ch@8MP/8ch@1080P
Display	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA
Max HDD	1×6TB	1×6TB	1×6TB	1×6TB	1×6TB	1×6TB	1×6TB	1×6TB
RAID	--	--	--	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	--	--	--	--	--	--	--	--
Ethernet	1×100M Port	1×100M Port	1×100M Port	1×100M Port	1×100M Port	1×100M Port	1×100M Port	1×100M Port
PoE	--	--	8 Ports (IEEE802.3at/af) Max 80W	4 Ports (IEEE802.3at/af) Max 50W	--	--	8 Ports (IEEE802.3at/af) Max 80W	4 Ports (IEEE802.3at/af) Max 50W
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	DC12V/2A <6.3W(Without HDD)	DC12V/2A <6.3W(Without HDD)	DC48V/2A <8.3W(Without HDD)	DC48V/1.5A <7.5W(Without HDD)	DC12V/2A <6.3W(Without HDD)	DC12V/2A <6.3W(Without HDD)	DC48V/2A <8.3W(Without HDD)	DC48V/1.5A <7.5W(Without HDD)
Star Features	P2P	P2P	Plug & Play, P2P	Plug & Play, P2P	P2P	P2P	Plug & Play, P2P	Plug & Play, P2P
Artificial Intelligence								
Perimeter Protection by camera	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Face Recognition by camera	--	--	--	--	--	--	--	--
Metadata by camera	--	--	--	--	--	--	--	--
SMD by camera	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
General Intelligence								
IVS by camera	Tripwire, Intrusion Abandoned/Missing Scene Change	Tripwire, Intrusion, Abandoned/Missing Scene Change	Tripwire, Intrusion Abandoned/Missing Scene Change	Tripwire, Intrusion Abandoned/Missing Scene Change	Tripwire, Intrusion Abandoned/Missing Scene Change	Tripwire, Intrusion Abandoned/Missing Scene Change	Tripwire, Intrusion Abandoned/Missing Scene Change	Tripwire, Intrusion Abandoned/Missing Scene Change
Face Detection by camera	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
People Counting by camera	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Heat Map by camera	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
ANPR by camera	--	--	--	--	--	--	--	--

NETWORK VIDEO RECORDERS

Lite H.265 Series

1HDD Lite 4K & H.265 NVR					1HDD Lite 4K & H.265 NVR			
Model	NVR2108HS-4KS2	NVR2104HS-4KS2	NVR2108HS-8P-4KS2	NVR2104HS-P-4KS2	NVR2108-4KS2	NVR2104-4KS2	NVR2108-8P-4KS2	NVR2104-P-4KS2
Appearance								
								
Processor	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU
Video Compression	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264
IP Video Inputs	8 channel	4 channel	8 channel	4 channel	8 channel	4 channel	8 channel	4 channel
Max Input/Record	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps
Max Decoding	1ch@8MP/4ch@1080P	1ch@8MP/4ch@1080P	1ch@8MP/4ch@1080P	1ch@8MP/4ch@1080P	1ch@8MP/4ch@1080P	1ch@8MP/4ch@1080P	1ch@8MP/4ch@1080P	1ch@8MP/4ch@1080P
Display	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA	1 HDMI, 1 VGA
Max HDD	1x6TB	1x6TB	1x6TB	1x6TB	1x6TB	1x6TB	1x6TB	1x6TB
RAID	--	--	--	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	--	--	--	--	--	--	--	--
Ethernet	1x100M Port	1x100M Port	1x1000M Port	1x100M Port	1x100M Port	1x100M Port	1x1000M Port	1x100M Port
PoE	--	--	8 Ports (IEEE802.3at/af) Max 80W	4 Ports (IEEE802.3at/af) Max 50W	--	--	8 Ports (IEEE802.3at/af) Max 80W	4 Ports (IEEE802.3at/af) Max 50W
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	DC12V/2A <3W(Without HDD)	DC12V/2A <3W(Without HDD)	DC48V/2A <5.8W(Without HDD)	DC48V/1.25A <5.3W(Without HDD)	DC12V/2A <3W(Without HDD)	DC12V/2A <3W(Without HDD)	DC48V/2A <5.8W(Without HDD)	DC48V/1.25A <5.3W(Without HDD)
Star Features	P2P	P2P	Plug & Play, P2P	Plug & Play, P2P	P2P	P2P	Plug & Play, P2P	Plug & Play, P2P
Artificial Intelligence								
Perimeter Protection by camera	--	--	--	--	--	--	--	--
Face Recognition by camera	--	--	--	--	--	--	--	--
Metadata by camera	--	--	--	--	--	--	--	--
SMD by camera	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
General Intelligence								
IVS by camera	--	--	--	--	--	--	--	--
Face Detection by camera	--	--	--	--	--	--	--	--
People Counting by camera	--	--	--	--	--	--	--	--
Heat Map by camera	--	--	--	--	--	--	--	--
ANPR by camera	--	--	--	--	--	--	--	--

DISPLAY & CONTROL

Monitors

Model	DHL19-F600	DHL22-F600-S	LM24-F211	LM28-S400	LM55-S400
Appearance					
Screen Size	19.5"(16:9)	21.5"(16:9)	23.8"(16:9)	28"(16:9)	55"(16:9)
Resolution	1600×900	1920×1080	1920×1080	3840×2160	3840×2160
Brightness	200cd/m ²	200cd/m ²	250cd/m ²	300cd/m ²	450cd/m ²
Contrast Ratio	1000:1	1000:1	1000:1	1000:1	1000:1
Viewing Angle	H 170°, V 160°	H 178°, V 178°	H 178°, V 178°	H 170°, V 160°	H 178°, V 178°
Response Time	5ms	5ms	14ms	5ms	6ms
Display Color	8bit	8bit	8bit	10bit	10bit
Input	1 VGA	1 VGA, 1 HDMI 1 Audio	1 VGA, 1 HDMI 1 Audio	2 HDMI, 1 DP, 1 VGA 1 USB, 1 BNC (CVBS), 1 Audio	1 DP, 2 HDMI, 1 VGA 1 USB, 1 Audio, 1 RS232
Output	--	2 Speakers	2 Speakers	1 BNC (CVBS), 2 Speakers	1 RS232, 2 Speakers
Control	Physical Button	Physical Button	Physical Button	RS232, Infrared Remote	RS232, Infrared Remote
Working Temperature	0°C~+40°C(+32°F~+104°F)	0°C~+40°C(+32°F~+104°F)	0°C~+40°C(+32°F~+104°F)	0°C~+40°C(+32°F~+104°F)	0°C~+40°C(+32°F~+104°F)
Working Humidity	10~85%	10~85%	10~85%	10%~85%	10~85%
Power	AC110~240V, 25W	AC110~240V, 25W	AC110~240V, 29W	AC110~240V, 40W	AC110~240V, 170W
Border Width	16.7mm(U/L/R), 25mm(B)	13.5mm(U/L/R), 19mm(B)	2.2mm(U/L/R), 18.1mm(B)	19.0mm(L/R), 19.1mm(U), 27.2mm(B)	8mm (U/L/R/B)
Dimensions (without base)	467.0×283.0×51.5mm (18.4"×11.1"×2.0")	502.8×299.8×47.6mm (19.8"×11.5"×1.9")	540.6×322.6×46.9mm (21.3"×12.7"×1.8")	662.0×390.5×50.0mm (26.1"×15.4"×2.0")	1227.2×699.6×65.0mm (48.3"×27.5"×2.6")
Net Weight	3.8kg(8.4lb)	3.2kg(7.1lb)	3.7kg(8.2lb)	6.65kg(14.7lb)	25.2kg(55.6lb)

DISPLAY & CONTROL

Controllers	
Model	M70-4U-E
Appearance	
Screen Quantity	60 Screens
Splicing Control	Zoom/Merge/Roam/Overlay
Card Slots	1 Main slot, 1 Control slot and 10 service slots
Max Encoding	80CH@1080P/320CH@D1
Max Decoding	80CH@4K/320CH@1080P/720CH@720P/1280CH@D1
Local Video Input	DVI/HDMI/VGA/BNC/HDCVI/HD-SDI
Network Video Input	IPC/DVR/NVR, etc.
Video Output	DVI/HDMI
Intercom	1/1 3.5mm jack(For intercom)
Processor	64 bit quad core processor
Bus	PCI-E, Ethernet
Case	4U 19"
Ethernet	6 RJ-45 ports(10/100/1000M), 2 in mainboard and 4 in control board
USB	3 USB2.0, 1 USB3.0
Power	AC100~240V
Control Mode	WEB/Local GUI/Video Platform/Network Keyboard/iPad
Highlights	4K & H.265 decoding, more powerful decoding capacity in one output, Fisheye dewarp

Decoders			
Model	NVD0105DH-4K	NVD0905DH-4I-4K	NVD1205DH-4I-4K
Appearance			
Screen Quantity	1 Screen	9 Screens	12 Screens
Splicing Control	Zoom/Roam/Overlay	Zoom/Merge/Roam/Overlay	Zoom/Merge/Roam/Overlay
Split Mode	1/4/9/16/25/36/64	1/4/9/16	1/4/9/16
Max Decoding	3CH@12MP(25fps)/4CH@4K(30fps)/16CH@1080P(30fps)/8CH@1080P(60fps)/36CH@720P(30fps)/64CH@D1(30fps)	9CH@12MP(25fps)/12CH@4K/48CH@1080P/108CH@720P/144CH@D1	12CH@12MP(25fps)/16CH@4K/64CH@1080P/144CH@720P/192CH@D1
Local Video Input	--	2CH HDMI, 2CH DVI-I	2CH HDMI, 2CH DVI-I
Network Video Input	IPC/DVR/NVR, etc.	IPC/DVR/NVR, etc.	IPC/DVR/NVR, etc.
Video Output	HDMI/VGA	HDMI(DVI with convertor)	HDMI(DVI with convertor)
Audio Out	HDMI	HDMI	HDMI
Alarm In/Out	4/4(30VDC 1A, 125VAC 0.5A, Relay output)	4/4(30VDC 1A, 125VAC 0.5A, Relay output)	2/1(30VDC 1A, 125VAC 0.5A, Relay output)
Intercom	1 Pair RCA	1 Pair 3.5mm Jack	1 Pair 3.5mm Jack
Processor	Embedded processor	Embedded processor	Embedded processor
Case	1U 19"	1.5U 19"	2.5U 19"
Ethernet	1 RJ-45 port (10/100/1000M, self-adaptive)	2 RJ-45 ports (10/100/1000M)	2 RJ-45 ports (10/100/1000M)
USB	2 USB2.0	1 USB2.0, 1 USB3.0	1 USB2.0, 2 USB3.0
Power	DC12V/3.3A	AC100~240V, 50 Hz~60Hz	AC 100V~127V, 200V~240V 47Hz~63Hz
Control Mode	WEB/Local GUI/Video Platform/Network keyboard/iPad	WEB/Video Platform/Network keyboard/iPad	WEB/Video Platform/Network keyboard/iPad
Highlights	4K & H.265 & H.265+ decoding, Fisheye dewarp, Support the display of intelligent regular line	4K & H.265 & H.265+ decoding, Fisheye dewarp, PC signal collection	4K & H.265 & H.265+ decoding, Fisheye dewarp, PC signal collection

Keyboards	
Model	NKB5000(-F)
Appearance	
Control Mode	Direct mode, Network mode
Control Interface	2 RJ-45 port (100/1000M), Wi-Fi, RS232, RS485
DVR/NVR Protocol	DH2
Dome Protocol	DH-SD1/PELCO-D/PELCO-P, etc
Max Users	64(Each can manage up to 30,000 channels)
Screen	10.1" TFT LCD touch screen (1280×800)
Local Split Display Mode	1/4/9/16
Video Output	4CH HDMI
Local Decoding	4CH@4K/16CH@1080P
Intercom	1 Pair(reserved)
Joystick	4-axis(zoom, focus, iris)
Main Processor	Dual-core Processor
Operation System	Embedded LINUX
USB	2 USB3.0, 2 USB2.0
Power	DC12V, 4A
Highlights	All touch screen, 4K&H.265 decoding, Control NVR, DVR, EVS, Decoder, Matrix, Platform, Local visible control

TRANSMISSION

PoE Switches

Desktop PoE Switch

Model	PFS3005-4ET-60	PFS3006-4ET-60	PFS3008-8ET-60	PFS3009-8ET-96	PFS3010-8ET-96	PFS4218-16ET-190/240	PFS4226-24ET-240/360
Appearance							
Fast/Gigabit Ethernet	4FE PoE+1FE	4FE PoE+2FE	4FE PoE+4FE	8 FE PoE + 1FE	8 FE PoE + 2GE	16FE PoE+2GE (Combo)	24FE PoE+2GE (Combo)
SFP Slots	--	--	--	--	--	2GE SFP (Combo)	2GE SFP (Combo)
Switching Capacity	1Gbps	1.8Gbps	1.8Gbps	1.8Gbps	5.6Gbps	8.8Gbps	8.8Gbps
Packet Forwarding Rate	744Kpps	890Kpps	1.19Mpps	1.34Mpps	4.17Mpps	5.36Mpps	6.55Mpps
Packet Buffer Memory	448Kb	768Kb	768Kb	768Kb	4Mb	2.75Mb	2.75Mb
MAC Table Size	1K	2K	2K	2K	16K	4K	4K
PoE Standard	PoE (802.3af) PoE+ (802.3at), Hi-PoE	PoE (802.3af) PoE+ (802.3at), Hi-PoE	PoE (802.3af) PoE+ (802.3at), Hi-PoE	PoE (802.3af) PoE+ (802.3at), Hi-PoE	PoE (802.3af) PoE+ (802.3at), Hi-PoE	PoE (802.3af) PoE+ (802.3at), Hi-PoE	PoE (802.3af) PoE+ (802.3at), Hi-PoE
PoE Budget	60W	60W	60W	96W	96W	190W/240W	240W/360W
Long Distance PoE Transmission	Supported (250 meters)	Supported (250 meters)	Supported (250 meters)	Supported (250 meters)	Supported (250 meters)	Supported (250 meters)	Supported (250 meters)
VLAN	--	--	--	--	--	Supported	Supported
Link Aggregation	--	--	--	--	--	Supported	Supported
Flow Control	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Spanning Tree	--	--	--	--	--	Supported	Supported
Management	--	--	--	--	--	Web	Web
Lightning Protection	Common Mode 2KV Differential Mode 1KV	Common Mode 2KV Differential Mode 1KV	Common Mode 2KV Differential Mode 0.5KV	Common Mode 4KV Differential Mode 2KV	Common Mode 2KV Differential Mode 1KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV
Working Temperature	-10°C~-55°C (14°F~-131°F)	-10°C~-55°C (14°F~-131°F)	-10°C~-55°C (14°F~-131°F)	-10°C~-55°C (14°F~-131°F)	-10°C~-55°C (14°F~-131°F)	-10°C~-55°C (14°F~-131°F)	-10°C~-55°C (14°F~-131°F)
Dimensions(WxDxH)	130mm×85mm×26mm (5.1"×3.3"×1.0")	130mm×85mm×26mm (5.1"×3.3"×1.0")	190mm×100mm×30mm (7.5"×3.9"×1.2")	190mm×100mm×30mm (7.5"×3.9"×1.2")	190mm×100mm×30mm (7.5"×3.9"×1.2")	440mm×300mm×44mm (17.3"×11.8"×1.7")	440mm×300mm×44mm (17.3"×11.8"×1.7")

PoE Switches

Hardened PoE Switch

Flat PoE Switch

Model	PFS3103-1GT1ET-60	PFS3106-4ET-60	PFS3110-8ET-96	PFS3211-8GT-120	PFS3409-4GT-96	PFS3111-8ET-96-F
Appearance						
Fast/Gigabit Ethernet	1FE PoE+1GE PoE	4FE PoE+1GE	8FE PoE+1GE	8GE PoE+1GE	4GE PoE+1GE	8EF PoE+2GE
SFP Slots	1GE SFP	1GE SFP	1GE SFP	2GE SFP	4GE SFP	1GE SFP
Switching Capacity	6.8Gbps	6.8Gbps	7.6Gbps	33Gbps	33Gbps	13.6Gbps
Packet Forwarding Rate	3.12Mpps	3.57Mpps	4.17Mpps	16.37Mpps	13.39Mpps	5.65Mpps
Packet Buffer Memory	2Mb	1Mb	1Mb	1.75Mb	1.75Mb	2Mb
MAC Table Size	8K	8K	8K	4K	4K	8K
PoE Standard	PoE (802.3af) PoE+ (802.3at) Hi-PoE	PoE (802.3af) PoE+ (802.3at) Hi-PoE	PoE (802.3af) PoE+ (802.3at) Hi-PoE	PoE (802.3af) PoE+ (802.3at) Hi-PoE	PoE (802.3af) PoE+ (802.3at) Hi-PoE	PoE (802.3af) PoE+ (802.3at) Hi-PoE
PoE Budget	60W	60W	96W	120W	96W	96W
Long Distance PoE Transmission	--	--	--	--	--	Port1-4 (250 meters)
VLAN	--	--	--	--	--	--
Link Aggregation	--	--	--	--	--	--
Flow Control	Supported	Supported	Supported	Supported	Supported	Supported
Spanning Tree	--	--	--	--	--	--
Management	--	--	--	--	--	--
Lightning Protection	Common Mode 6KV Differential Mode 4KV	Common Mode 6KV Differential Mode 4KV	Common Mode 6KV Differential Mode 4KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV
Working Temperature	-30°C~+65°C (-22°F~+149°F)	-30°C~+65°C (-22°F~+149°F)	-30°C~+65°C (-22°F~+149°F)	-30°C ~ +65°C (-22°F~+149°F)	-30°C ~ +65°C (-22°F~+149°F)	-30°C ~ +65°C (-22°F~+149°F)
Dimensions(WxDxH)	105mm×75mm×30mm (4.1"×3.0"×1.2")	150mm×100mm×30mm (5.9"×3.9"×1.2")	150mm×100mm×42mm (5.9"×3.9"×1.7")	150mm ×100mm×42mm (5.9"×3.9"×1.7")	150mm ×100mm ×42mm (5.9"×3.9"×1.7")	158mm ×130mm ×25mm (6.2"×5.1"×1.0")

TRANSMISSION

PoE Switches

	Industrial PoE Switch			All-Gigabit PoE Switch		
Model	PFS4207-4GT-DP	PFS4210-8GT-DP	PFS4410-6GT-DP	PFS4210-8GT-150	PFS4218-16GT-190/240	PFS4226-24GT-240/360
Appearance						
Fast/Gigabit Ethernet	4GE PoE+1GE	8GE PoE	6GE PoE	8GE PoE	16GE PoE	24GE PoE
SFP Slots	2GE SFP	2GE SFP	4GE SFP	2GE SFP	2GE SFP	2GE SFP
Switching Capacity	14Gbps	28Gbps	28Gbps	20Gbps	52Gbps	52Gbps
Packet Forwarding Rate	10.42Mpps	14.88Mpps	14.88Mpps	14.88Mpps	23.81Mpps	38.688Mpps
Packet Buffer Memory	1.75Mb	4Mb	4Mb	4.1Mb	4Mb	4Mb
MAC Table Size	4K	8K	8K	8K	8K	8K
PoE Standard	PoE (802.3af) PoE+ (802.3at) Hi-PoE	PoE (802.3af) PoE+ (802.3at) Hi-PoE	PoE (802.3af) PoE+ (802.3at) Hi-PoE	PoE (802.3af) PoE+ (802.3at)	PoE (802.3af) PoE+ (802.3at) Hi-PoE	PoE (802.3af) PoE+ (802.3at) Hi-PoE
PoE Budget	≤120W	≤120W	≤120W	150W	190W/240W	240W/360W
Long Distance PoE Transmission	--	--	--	--	--	--
VLAN	Supported	Supported	Supported	Supported	Supported	Supported
Link Aggregation	Supported	Supported	Supported	Supported	Supported	Supported
Flow Control	Supported	Supported	Supported	Supported	Supported	Supported
Spanning Tree	Supported	Supported	Supported	Supported	Supported	Supported
Management	Web	Web	Web	Web	Web	Web
Lightning Protection	Common Mode 6KV Differential Mode 4KV	Common Mode 6KV Differential Mode 4KV	Common Mode 6KV Differential Mode 4KV	Common Mode 2KV Differential Mode 1KV	Common Mode 2KV Differential Mode 1KV	Common Mode 2KV Differential Mode 1KV
Working Temperature	-40°C ~ +75°C (-40°F ~ +167°F)	-40°C ~ +75°C (-40°F ~ +167°F)	-40°C ~ +75°C (-40°F ~ +167°F)	0°C ~ +45°C (32°F ~ +113°F)	-10°C ~ +55°C (14°F ~ +131°F)	-10°C ~ +55°C (14°F ~ +131°F)
Dimensions(WxDxH)	103mm×135mm×53mm (4.1"×5.3"×2.1")	175mm×126mm×53mm (6.9"×5.0"×2.1")	175mm×126mm×53mm (6.9"×5.0"×2.1")	340mm×200mm×44mm (13.4"×7.9"×1.7")	440mm×300mm×44mm (17.3"×11.8"×1.7")	440mm×300mm×44mm (17.3"×11.8"×1.7")

PoE Switches

	All-Gigabit PoE Switch		ePoE Switch		
Model	PFS4420-16GT-240	PFS4428-24GT-370	LR2110-8ET-120	LR2218-16ET-240	LR2226-24ET-360
Appearance					
Fast/Gigabit Ethernet	16GE PoE	24GE PoE	8FE ePoE+ 1GE	8FE ePoE+ 8FE PoE+ 2GE Combo	8FE ePoE+ 16FE ePoE+ 2GE Combo
SFP Slots	4GE SFP	4GE SFP	1 GE SFP	2 GE SFP	2 GE SFP
Switching Capacity	40Gbps	56Gbps	8.8Gbps	8.8Gbps	8.8Gbps
Packet Forwarding Rate	29.76Mpps	41.66Mpps	4.17Mpps	5.36Mpps	6.55Mpps
Packet Buffer Memory	4.1Mb	4.1Mb	2.75Mb	2.75Mb	2.75Mb
MAC Table Size	8K	8K	4K	4K	4K
PoE Standard	PoE (802.3af) PoE+ (802.3at)	PoE (802.3af) PoE+ (802.3at)	PoE (802.3af) PoE+ (802.3at) Hi-PoE	PoE (802.3af) PoE+ (802.3at) Hi-PoE	PoE (802.3af) PoE+ (802.3at) Hi-PoE
PoE Budget	240W	370W	120W	240W	360W
Long Distance PoE Transmission	--	--	Supported (800 meters)	Supported (800 meters)	Supported (800 meters)
VLAN	Supported	Supported	--	Supported	Supported
Link Aggregation	Supported	Supported	--	Supported	Supported
Flow Control	Supported	Supported	Supported	Supported	Supported
Spanning Tree	Supported	Supported	--	Supported	Supported
Management	Web	Web	--	Web	Web
Lightning Protection	Common Mode 2KV	Common Mode 2KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV
Working Temperature	0°C ~ +45°C (32°F~+113°F)	0°C ~ +45°C (32°F~+113°F)	-30°C~+65°C (-22°F~+149°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)
Dimensions(WxDxH)	440mm x330mm x44mm (17.3"x13.0"x1.7")	440mm x330mm x44mm (17.3"x13.0"x1.7")	150mmx100mmx42mm (5.9"x3.9"x1.7")	440mmx300mmx44mm (17.3"x11.8"x1.7")	440mmx300mmx44mm (17.3"x11.8"x1.7")

TRANSMISSION

Aggregation Switch

Model	PFS5424-24T	PFS5428-24GT	PFS5924-24X	S5500-24GF4XF	S5500-48GT4GF-AC	S5500-48GT4XF
Appearance						
Fast/Gigabit Ethernet	20GE+4GE (Combo)	24GE	8GE (Combo)	8GE(Combo)	48GE	48GE
SFP Slots	4GE SFP(Combo)	4×10G SFP+	16GE SFP+8GE SFP(Combo)	16GE SFP+8GE SFP(Combo)+ 4×10G SFP+	4GE SFP	4×10G SFP+
Switching Capacity	350G	128G	350G	256Gbps	256Gbps	256Gbps
Packet Forwarding Rate	36Mpps	96Mpps	36Mpps	96Mpps	78Mpps	132Mpps
VLAN	Supported	Supported	Supported	Supported	Supported	Supported
Link Aggregation	Supported	Supported	Supported	Supported	Supported	Supported
Port Management	Flow Control, Speed Limit Port Mirroring	Flow Control, Speed Limit Port Mirroring	Flow Control, Speed Limit Port Mirroring	Flow Control, Speed Limit Port Mirroring	Port Mirroring	Port Mirroring
Ring Network Protocol	STP, RSTP, ERPS	STP, RSTP, ERPS	STP, RSTP, ERPS	STP, RSTP, MSTP	STP, RSTP, MSTP	STP, RSTP, MSTP
IGMP Snooping	Supported	Supported	Supported	Supported	Supported	Supported
Static IP Routing	Supported	Supported	Supported	Supported	Supported	Supported
Dynamic Routing	--	--	--	--	--	--
VRRP	--	--	--	--	--	--
Management	Web, CLI, SNMP	Web, CLI, SNMP	Web, CLI, SNMP	CLI, SNMP	Web, CLI, SNMP	Web, CLI, SNMP
Working Temperature	-10°C~+55°C (14°F~+131°F)	-20°C~+55°C (-4°F~+131°F)	-10°C~+55°C (14°F~+131°F)	0°C ~ +45°C (32°F~+113°F)	0°C ~+45°C (32°F~+113°F)	0°C ~+45°C (32°F~+113°F)
Dimensions	440mm×285mm×44.5mm (17.3"×11.2"×1.7")	440mm×300mm×44mm (17.3"×11.8"×1.7")	440mm×285mm×44.5mm (17.3"×11.2"×1.7")	440mm×360mm×43.6mm (17.3"×14.2"×1.7")	440mm×238mm×44mm (17.3"×9.4"×1.7")	440mm×238mm×44mm (17.3"×9.4"×1.7")

TRANSMISSION

Core Switch		
Model	S7602	S7606
Appearance		
Switching Capacity	5.12 Tbps or 12.8 Tbps	15.36Tbps/25.6Tbps
Packet Forwarding Rate	960 Mpps/2400 Mpps	2880 Mpps/12000 Mpps
Number of Service Slots	2	6
Redundancy Design	Redundancy of power sources and main control boards	Redundancy of power sources and main control boards
Layer 2 Features	VLAN/STP/RSTP/MSTP/CoS/Flow Control/Link Aggregation/etc	VLAN/STP/RSTP/MSTP/CoS/Flow Control/Link Aggregation/etc
IPv4 Routing	Supported	Supported
IPv6 Routing	Supported	Supported
Multicast	Supported	Supported
ACL	Supported	Supported
QoS	Supported	Supported
Security Mechanism	FTP/TFTP/SNMP/RMON	FTP/TFTP/SNMP/RMON
Reliability	CPU Protection/VRRP/RPR/DLCP	CPU Protection/VRRP/RPR/DLCP
Working Temperature	0°C ~ +45°C (32°F~+113°F)	0°C ~ +45°C (32°F~+113°F)
Dimensions (WxDxH)	436mm×420mm×175mm (17.2"×16.5"×6.9")	436mm×420mm×575mm (17.2"×16.5"×22.6")

PoE Midspans			PoE Extenders
Model	PFT1200	TAM01GT01GT-75W	PFT1300
Appearance			
Fast/Gigabit Ethernet	2GE	2GE	3FE
SFP Slots	--	--	--
Switching Capacity	--	--	1.4G
Packet Forwarding Rate	--	--	0.47Mpps
Packet Buffer Memory	--	--	512Kb
MAC Table Size	--	--	1K
PoE Standard	PoE (802.3af) PoE+ (802.3at), Hi-PoE	PoE (802.3af) PoE+ (802.3at), Hi-PoE	PoE (802.3af) PoE+ (802.3at)
PoE Budget	60W	75W	--
PoE PIN Assignment	1, 2, 4, 5(V+), 3, 6, 7, 8(V-)	--	4, 5(V+), 7, 8(V-)
Lightning Protection	Common Mode 4KV Differential Mode 2KV	--	Common Mode 4KV Differential Mode 2KV
Working Temperature	-30°C~+65°C(-22°F~+149°F)	-30°C~+65°C(-22°F~+149°F)	-30°C~+65°C(-22°F~+149°F)
Dimensions	150×70×39mm (5.9"×2.8"×1.5")	210 x75 x38.5mm (8.3"×2.9"×1.5")	79×52×23mm (3.1"×2.0"×0.9")

Ethernet over Coax		
Model	LR1002	LR1002-1ET/LR1002-1EC
Appearance		
Interface	1FE+1*BNC	1FE+1*BNC
Transmission Bandwidth	RG59 coaxial cable: 400m/100 Mbps, 1000m/10 Mbps	RG59 coaxial cable: 400m/100 Mbps, 1000m/10 Mbps
PoE Standard	(Based on the power input from the ePoE switch)	PoE (802.3af) PoE+ (802.3at)
Lightning Protection	Common Mode 6KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV
Working Temperature	-40°C~+65°C(-40°F~+149°F)	-30°C~+65°C(-22°F~+149°F)
Dimensions(WxDxH)	56mm×27mm×21mm(2.2"×1.1"×0.8")	79mm×52mm×23mm(3.1"×2.0"×0.9")

TRANSMISSION

Outdoor Wireless Transmission Device

	CPE						Base Station		
Model	PFWB2-60n	PFWB2-30n	PFWB5-30n	PFWB5-10n	PFWB5-30ac	PFWB5-10ac	PFWB2-90n	PFWB5-90n	PFWB5-90ac
Appearance									
Fast/Gigabit Ethernet	1FE	1FE	1FE	1FE	1GE	1GE	1FE	1FE	1GE
Wireless Standard	802.11 b/g/n	802.11 b/g/n	802.11 a/n	802.11 a/n	802.11 a/n/ac	802.11 a/n/ac	802.11 b/g/n	802.11 a/n	802.11 a/n/ac
Working Frequency	2.402- 2.492GHz (FCC 2.412- 2.462 GHz)	2.402- 2.492GHz (FCC 2.412- 2.462 GHz)	5.150- 5.850 GHz (FCC 5.150- 5.250 and 5.725- 5.850 GHz)	5.150- 5.850 GHz (FCC 5.150- 5.250 and 5.725- 5.850 GHz)	5.150- 5.850 GHz (FCC 5.150- 5.250 and 5.725- 5.850 GHz)	5.150- 5.850 GHz (FCC 5.150- 5.250 and 5.725- 5.850 GHz)	2.402- 2.492GHz (FCC 2.412- 2.462 GHz)	5.150- 5.850 GHz (FCC 5.150- 5.250 and 5.725- 5.850 GHz)	5.150- 5.850 GHz (FCC 5.150- 5.250 and 5.725- 5.850 GHz)
Wireless Speed	300Mbps	300Mbps	300Mbps	300Mbps	867Mbps	867Mbps	300Mbps	300Mbps	867Mbps
Transmission Distance	3km (recommended) 5km (max)	5km (recommended) 7km (max)	3km (recommended) 5km (max)	5km (recommended) 7km (max)	3km (recommended) 5km (max)	5km (recommended) 7km (max)	5km (recommended) 7km (max)	5km (recommended) 7km (max)	5km (recommended) 7km (max)
Antenna Gain	9dBi	14dBi	15dBi	20dBi	15dBi	20dBi	16dBi	18dBi	18dBi
Polarization	Dual Linear: Horizontal 60° vertical 60°	Dual Linear: Horizontal 34° vertical 36°	Dual Linear: Horizontal 30° vertical 30°	Dual Linear: Horizontal 10° vertical 10°	Dual Linear: Horizontal 30° vertical 30°	Dual Linear: Horizontal 10° vertical 10°	Dual Linear: Horizontal 90° vertical 90°	Dual Linear: Horizontal 90° vertical 90°	Dual Linear: Horizontal 90° vertical 90°
Tx Power Max	31dBm	31dBm	29dBm	29dBm	30dBm	30dBm	31dBm	29dBm	30dBm
Proprietary Protocol	TDMA	TDMA	TDMA	TDMA	TDMA	TDMA	TDMA	TDMA	TDMA
Network Security	WPA/WPA2 Personal WPA/WPA2 Enterprise WACL, User Isolation	WPA/WPA2 Personal WPA/WPA2 Enterprise WACL, User Isolation	WPA/WPA2 Personal WPA/WPA2 Enterprise WACL, User Isolation	WPA/WPA2 Personal WPA/WPA2 Enterprise WACL, User Isolation	WPA/WPA2 Personal WPA/WPA2 Enterprise WACL, User Isolation	WPA/WPA2 Personal WPA/WPA2 Enterprise WACL, User Isolation	WPA/WPA2 Personal WPA/WPA2 Enterprise WACL, User Isolation	WPA/WPA2 Personal WPA/WPA2 Enterprise WACL, User Isolation	WPA/WPA2 Personal WPA/WPA2 Enterprise WACL, User Isolation
Management	Web/DWMS Platform	Web/DWMS Platform	Web/DWMS Platform	Web/DWMS Platform	Web/DWMS Platform	Web/DWMS Platform	Web/DWMS Platform	Web/DWMS Platform	Web/DWMS Platform
Lightning Protection	Common Mode 3KV Differential Mode 1KV	Common Mode 3KV Differential Mode 1KV	Common Mode 3KV Differential Mode 1KV	Common Mode 3KV Differential Mode 1KV	Common Mode 3KV Differential Mode 1KV	Common Mode 3KV Differential Mode 1KV	Common Mode 3KV Differential Mode 1KV	Common Mode 3KV Differential Mode 1KV	Common Mode 3KV Differential Mode 1KV
Ingress Protection	IP66	IP66	IP66	IP66	IP66	IP66	IP66	IP66	IP66
Working Temperature	-30°C ~ +70°C (-22°F~+158°F)	-30°C ~ +70°C (-22°F~+158°F)	-30°C ~ +70°C (-22°F~+158°F)	-30°C ~ +70°C (-22°F~+158°F)	-30°C ~ +70°C (-22°F~+158°F)	-30°C ~ +70°C (-22°F~+158°F)	-30°C ~ +70°C (-22°F~+158°F)	-30°C ~ +70°C (-22°F~+158°F)	-30°C ~ +70°C (-22°F~+158°F)
Dimensions(WxDxH)	145mm×116mm×58mm (5.7"×4.6"×2.3")	185mm×185mm×81mm (7.3"×7.3"×3.2")	128mm×97mm×40mm (5.0"×3.8"×1.6")	185mm×185mm×81mm (7.3"×7.3"×3.2")	128mm×97mm×40mm (5.0"×3.8"×1.6")	185mm×185mm×81mm (7.3"×7.3"×3.2")	383mm×100mm×98mm (15.1"×3.9"×3.9")	383mm×100mm×98mm (15.1"×3.9"×3.9")	383mm×100mm×98mm (15.1"×3.9"×3.9")
Power	12- 24V DC Passive PoE	12- 24V DC Passive PoE	12- 24V DC Passive PoE	12- 24V DC Passive PoE	12- 24V DC Passive PoE	12- 24V DC Passive PoE	12- 24V DC Passive PoE	12- 24V DC Passive PoE	12- 24V DC Passive PoE

ACCESSORIES

HFWxxE(-Z), TPC-BF5x(-T) TPC-BF2221(-T) Series		
		
Model	PFA121	PFA121+PFA152-E
Mount	Junction box	Pole mount

HFWxxH, HFWxxX Series	
	
Model	PFA154
Mount	Pole mount

HFWxxT Series		
		
Model	PFA130-E	PFA130-E+PFA152-E
Mount	Junction box	Pole mount

PSD8xxx Series		
		
Model	PFA710+PFB710W	PFA710+PFB710C
Mount	Wall mount	Ceiling mount

HFxxE, HFxxF Series			
			
Model	PFB110W	PFB121W	PFH610V/H/A+PFB604W
Mount	Wall/Ceiling/Plane mount	Wall mount	Housing

PFW8x-A180 Series			
			
Model	PFA120	PFA150	PFA151
Mount	Junction box	Pole mount	Corner Mount

HFWxxS Series		
		
Model	PFA134	PFA134+PFA152-E
Mount	Junction box	Pole mount

PDBW Series		
		
Model	PFA111+PFB303W	PFA111+PFB300C
Mount	Wall mount	Ceiling mount

ACCESSORIES

PSDW5xxx Series			PDB4830-B360				
							
Model	PFA102+PFB303W	PFA102+PFB300C	Model	PFA138	PFA101+PFB302S	PFA101+PFB302S+PFA152-E	PFA101+PFB300C
Mount	Wall mount	Ceiling mount	Mount	Junction box	Wall mount	Pole mount	Ceiling mount

PDBW5831-B360			EBW Series				
							
Model	PFA108+PFA111+PFB303W	PFA108+PFA111+PFB300C	Model	PFA132-E	PFA100+PFB302S	PFA100+PFB302S+PFA152-E	PFA100+PFB300C
Mount	Wall mount	Ceiling mount	Mount	Junction box	Wall mount	Pole mount	Ceiling mount

EB, HDBxxC Series			
			
Model	PFA136	PFB203W	PFB203W+PFA152-E
Mount	Junction box	Wall mount	Pole mount

HDBWxxE-Z, HDBWxxH Series						
						
Model	PFA138	PFA133-E	PFB210W	PFB210W+PFA152-E	PFA101+PFB300C	PFB201C
Mount	Junction box	Junction box (20°)	Wall mount	Pole mount	Ceiling mount	In-ceiling mount

ACCESSORIES

HDBWxxR Series							
							
Model		PFA137	PFB203W	PFB203W+PFA152-E	PFA106+PFB220C	PFB200C	PFA137+PFA200W
Mount		Junction box	Wall mount	Pole mount	Ceiling mount(extensible)	In-ceiling mount	Rain shade

HDBWxxE, HDBWxxE-ASE Series							
							
Model		PFA136	PFB203W	PFB203W+PFA152-E		PFA136+PFA200W	
Mount		Junction box	Wall mount	Pole mount		Rain shade	

HDWxxR-Z, HDWxxH, HDWxxS Series					
					
Model		PFA130-E	PFB203W	PFB203W+PFA152-E	PFA106+PFB220C
Mount		Junction box	Wall mount	Pole mount	Ceiling mount(extensible)

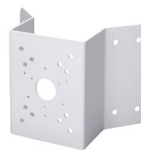
HDWxxEM, HDWxxTM Series			
			
Model		PFA130-E	PFB204W+PFA152-E
Mount		Junction box	Pole mount

HDBWxxF Series			
			
Model		PFA139	PFB204W+PFA152-E
Mount		Junction box	Pole mount

ACCESSORIES

SD8A Series							
							
Model		PFB306W	PFB310W	PFB306W+PFA120	PFA118+PFB301C	PFA150	PFA151
Mount		Wall mount		Junction box	Ceiling mount	Pole mount	Corner Mount

SD65F/60/6AE/6AL/ TPC-SD8x20(-T) Series									
									
Model		PFA111+PFB303W	PFB310W	PFA111+PFB303W+PFA120	PFA111+PFB300C	PFA150	PFA151	PFA140	PFA111+PFB303S
Mount		Wall mount		Junction box	Ceiling mount	Pole mount	Corner Mount	Power box	Parapet mount

SD6CE/5A/49 Series									
									
Model		PFB305W	PFB310W	PFB305W+PFA120	PFA111+PFB300C	PFA150	PFA151	PFA140	PFA111+PFB303S
Mount		Wall mount		Junction box	Ceiling mount	Pole mount	Corner Mount	Power box	Parapet mount

SD59/50/40 Series								
								
Model		PFA110+PFB300S	PFA110+PFB300S+PFA120	PFA110+PFB300C	PFA150	PFA151	PFA140	PFA110+PFB303S
Mount		Wall mount	Junction box	Ceiling mount	Pole mount	Corner Mount	Power box	Parapet mount

ACCESSORIES

SD6CE/49 Series									
Model		PFB305W	PFB310W	PFB305W+PFA120	PFA111+PFB300C	PFA150	PFA151	PFA140	PFA111+PFB303S
Mount		Wall mount		Junction box	Ceiling mount	Pole mount	Corner Mount	Power box	Parapet mount

SD42 Series							
Model		PFA102+PFB302S	PFA102+PFB302S+PFA150	PFA102+PFB302S+PFA151	PFA102+PFB300C		
Mount		Wall mount	Pole mount	Corner Mount	Ceiling mount		

SD29 Series							
Model		PFA103+PFB302S	PFA103+PFB302S+PFA150	PFA103+PFB302S+PFA151	PFA103+PFB300C		
Mount		Wall mount	Pole mount	Corner Mount	Ceiling mount		

SD22 Series						SD1A/12 Series			
Model		PFA137	PFB203W	PFB203W+PFA152-E	PFB200C	Model		PFA13F	PFA107+PFB305W
Mount		Junction box	Wall mount	Pole mount	In-ceiling mount	Mount		Junction box	Wall mount
								Ceiling mount (extensible)	

ACCESSORIES

	Housings				SD Cards
Model	PFH610V Series	PFH610A Series	PFH610E Series	PFH610N-IR-W	PFM11x Series
Appearance					
Description	Aluminum & PC N/A/Heater, cooler/Heater, cooler, IR/Heater, cooler, IR, POE IP67, IK10 DC12V/AC24V in 404×164×132mm(15.9"×6.45"×5.2")	Aluminum & PC N/A/Heater, cooler/Heater, cooler, IR/Heater, cooler, IR, POE IP67, IK10, NEMA 4X DC12V/AC24V in 404×164×132mm(15.9"×6.45"×5.2")	Aluminum & PC Heater, cooler/Heater, cooler, IR IP67, IK10, NEMA 4X AC110/220 in 404×164×132mm(15.9"×6.45"×5.2") -65°C~+55°C	Aluminum & PC Heater, cooler, wiper, IR IP66 AC24V, 5A in 404×164×175mm (15.9"×6.45"×6.89")	Brand: Dahua Property/Speed: Class 10 (reading: 90MB/s, writing: 20MB/s) Storage capacity: 16/32/64/128/256GB

	Lenses						Testers	
Model	PFL2712-E6D	PFL0550-E6D	PLZ20C0-D	PLZ21C0-D	PFL1575-A12D	PFL2070-J12M	PFM906	PFM907
Appearance								
Description	Image size: 1/2.7" Aperture: F1.6 Focus length: 2.7-12mm Mount: CS Resolution: 6MP	Image size: 1/2.7" Aperture: F1.6 Focus length: 5-50mm Mount: CS Resolution: 6MP	Image size: 1/1.7" Aperture: F1.5 Focus length: 3.7-16mm Mount: CS Resolution: 12MP	Image size: 1/1.7" Aperture: F1.5 Focus length: 10.5-42mm Mount: CS Resolution: 12MP	Image size: 1/1.7" Aperture: F1.5 Focus length: 15-75mm Mount: C Resolution: 12MP	Image size: 4/3" Aperture: F1.5 Focus length: 20-70mm Mount: M43 Resolution: 12MP	For IPC, HDCVI, TVI, AHD analog camera TDR, analog video generator Digital multimeter, data monitor PoE+, DC12V/2A output	For Wifi, IPC, HDCVI, TVI AHD, analog camera TDR, analog video generator Wifi test, Digital multimeter OPM, data monitor PoE+, DC12V/2A, USB5V/2A output

	Pickups					
Model	HAP100	HAP120	HAP201	HAP301	HAP320	HAP320-V
Appearance						
Description	Input DC12V Scope: 5-40m ² Sensitivity: -40dB 63×30×22mm (2.48"×1.18"×0.87")	Input DC12V Scope: 10-70m ² Sensitivity: -34dB Φ40mm×20mm(Φ1.57"×0.79")	Input DC12V Scope: 10-150 m ² Sensitivity: -38dB 79.6×79.6×21.5mm (3.13"×3.13"×0.85")	Input DC12V Scope: 1-150 m ² Sensitivity: -38dB Φ70 mm×21 mm (Φ2.76"×0.83")	Input DC12V Scope: 10-150m ² Sensitivity: -35dB Φ80mm×20mm(Φ3.15"×0.79")	Input DC12V Scope: 5-100m ² Sensitivity: -24dB Φ80mm×23.5mm(Φ3.15"×0.93")

ACCESSORIES

	Network Cables		Video Extensions
Model	PFM920I-5EUN-C-V2	PFM920I-6UN-C	PFM700-4K
Appearance			
Description	UTP CAT5E Cable Conductor: OFC (0.45mm±0.01mm) Jacket: PVC (CE CPR), 5.0mm±0.20mm Color: white Length: 305m (1000.7ft)	UTP CAT6 Cable Conductor: OFC (0.53mm±0.01mm) Jacket: PVC (CE CPR), 6.3mm±0.20mm Color: white/Orange Length: 305m (1000.7ft)	HDMI Extender DC24V for transmitter 4K/40m, 1080P/80m Transmit 1-CH HDMI via UTP

	Cablings						
Model	PFC200D-6U4D	PFC200D-9U4D	PFC200D-12U4D	PFC200D-18U6D	PFC200D-42U8D	PDU	PFC610 Series
Appearance							
Description	19" 6U Rack Cabinet Supports wall & plane mount Depth: 450mm(17.72") Load bearing: 40kg(88.18lb)	19" 9U Rack Cabinet Supports wall & plane mount Depth: 450mm(17.72") Load bearing: 40kg(88.18lb)	19" 12U Rack Cabinet Supports wall & plane mount Depth: 450mm(17.72") Load bearing: 40kg(88.18lb)	19" 18U Rack Cabinet Supports wall & plane mount Depth: 600mm(23.62") Load bearing: 40kg(88.18lb)	19" 42U Rack Cabinet Supports wall & plane mount Depth: 800mm(31.5") Load bearing: 40kg(88.18lb)	8 Outlet Rackmount PDU Power Strip	19" Rackmount Tray Load bearing: 40kg(88.18lb)

	Power Adapters				Distributed Power Supplies		UPS	
Model	PFM321D Series	PFM321 Series	PFM320D-015	PFM300	PFM320S Series	PFM34x Series	PFM350 Series	PFM351R Series
Appearance								
Description	AC90~264V input DC12V, 1A output -30°C~+70°C CE/FCC/UL/PSE/CCC	AC90~264V input DC12V, 1A output -10°C~+55°C CE/FCC/UL/CCC	AC90~264V input DC12V, 1.5A output -30°C~+70°C Perfect with PFA12X series(IP66)	AC180~264V input DC12V, 2A output -30°C~+70°C Structural water-proof	AC90~264V/AC88~132V & 176~264V input DC12V 50W/150W & DC24V, 75W output	5/9/19 Channel AC90~264V input DC12V 4A/5A/10A/20A output	Line-Interactive 600VA/360W 1500VA/900W 2-6ms transfer time	Smart Online 1000VA/900W 3000VA/2700W 0ms transfer time

ACCESSORIES

Solar Power System

Off-grid Security

Secure every corner where the sun shines



Model	PFM371, PFM376 series	PFM377-D2440/D4830, TS-400 Series	DC12-100/150/200
Appearance			
Description	330W/275W Solar Module: Five main grid battery piece, monocrystalline 19.2% Solar Module Mounting Bracket	Distribution Box: Include MPPT controller, lightning arrester, DC circuit breaker, etc. 400W power Inverter: DC42-60V input	100Ah/150Ah/200Ah DC12V gel battery Battery Storage Box: max. 2 batteries in 1 box
Model	PFM364L-D1	PFM363L-D1	PFM363L-SD1
Appearance			
Description	60W integrated solar power system: All-in-one aluminum design, easy to install/remove/maintain, RS485 communication; Recommend 1*4G IPC	120W integrated solar power system: All-in-one aluminum design, easy to install/remove/maintain, RS485 communication; Recommend 1-2* 4G IPC	120W integrated solar power system: All-in-one aluminum design, easy to install/remove/maintain, RS485 communication; Recommend 1-2* ordinary IPC and 1*PFM881 wireless transmission device

Outdoor Surveillance Box

Outdoor Surveillance Box

Say goodbye to redundant bracket installation



Model	PFA142		PFA153	PFC620-D1
Appearance				
Description	Outdoor Surveillance Box IP66, IK10 High compatibility Support MNVR local storage Optional tamper alarm		Heavy-duty Pole Mount Bracket Mast Diameter: φ150~φ300mm (φ5.91"~φ11.81") Load Bearing: 35kg (77.16lb)	Special Fan for Surveillance Box DC12V input -40~60°C
Model	B1N2C16	ZZM3-20	ZZRJ45-(K)(PoE)	ARD312
Appearance				
Description	Air Circuit Breaker 240V / 16A 2P DIN rail	Lightning Arrester For 220/110V ≤1.6KV DIN rail	Network Lightning Arrester For 100/ 1000M network / PoE port DIN rail	Iron Door Contact Standard gap 40mm Support iron door Spacers, covers and screws included

Radar System

Radar System

Capture every moving object linking PTZ



Model	PFR4KS-E50
Appearance	
Description	Phased Array Radar Working frequency: 24GHz Distance: 50m for people detection Horizontal: 120° Support linking PTZ for trace drawing low false & missing alarm rate Support to link NVR, DSS, VMS
Model	PFR4K-E50/120
Appearance	
Description	Security Radar Working frequency: 24.05-24.25GHz Distance: 50m/120m Horizontal: 120° Support linking PTZ for trace drawing low false & missing alarm rate

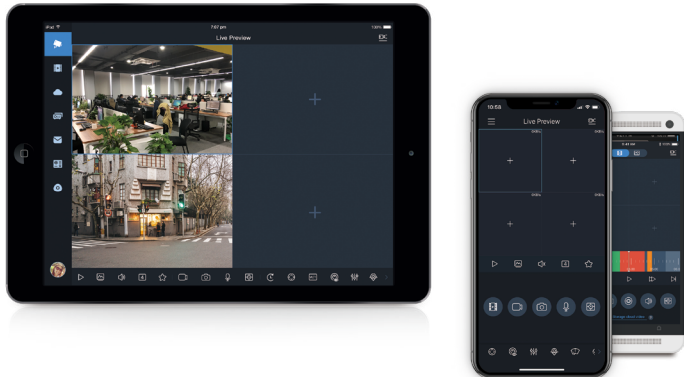
VIDEO MANAGEMENT SOFTWARE

DSS Products

	Model	DSS Express (Free) V1.00.003	DSS Express (Plus) V1.00.003	DSS Pro V7.02.003	DSS4004-S2 V1.01.000	DSS7016D(R)-S2 V1.01.001
	Appearance					
Deployment	OS	Windows	Windows	Windows	Linux	Linux
	Form	Software	Software	Software	ALL-IN-ONE	ALL-IN-ONE
	Hot standby	×	×	√	√	√
	Distribute	×	×	√	×	√
	Cascade As Superior Level	×	×	√	×	×
	Cascade As Subordinate Level	×	√	√	√	√
Performance	Camera	64	512	1000 IP, 2000 CH	512	500 IP, 1000 CH
	Face Recognition	2	32	100	32	64
	ANPR	2	32	64	32	64
	Object Detection	×	×	20	×	20
	Maximum Video Input Bandwidth Per Server	350Mbps	350Mbps	600Mbps	350Mbps	700Mbps
	Maximum Storage Bandwidth Per Server	150Mbps	150Mbps	600Mbps	150Mbps	700Mbps
Features	Onvif	√	√	√	√	√
	Auto Register	×	×	√	×	√
	P2P	√	√	×	×	×
	Microsoft Active Directory	×	×	√	×	√
	Disk Group	×	×	√	×	√
	ISCSI	×	√	√	√	√
	Records backup from device by time or wifi	×	×	√	×	√
	GIS Map	×	×	√	×	√
	Thumbnail search	×	×	√	×	√
	Access Control, Video Intercom, Attendance, Entrance, Visitor Management	√	√	√	√	√
	Perimeter Protection	√	√	√	√	√
	Thermal Alarm	√	√	√	√	√
AI	Face Recognition	√	√	√	√	√
	Flow Analysis	√	√	√	√	√
	ANPR	√	√	√	√	√
	Object Detection	×	×	√	×	√
Add on	Add-ons	×	×	√	×	×

VIDEO MANAGEMENT SOFTWARE

DMSS



Digital Mobile Surveillance System
Monitor Anything with Your SmartPhone or Tablet Anytime, Anywhere



Devices	Supported Devices	DVR, NVR, IPC, VTO, DoorBell, Alarm Hub
	Add Device Method	IP/domain, SN, Import form cloud, Soft AP
	Features	Remote config, Alarm config, HDD info, Share device list
Video	Compression Format	H.265/H.264/MPEG-4/JPEG
	Display Resolution	Up to 1920×1080
Live Preview	Max. Channels Can Be Opened at The Same Time	256
	Features	Snapshot, Record, Instant playback, PTZ, Stream control, Talk, Audio, Alarm, Color, Favorites, Remember channels
Playback	Video Playback Duration	72 hours
	Features	Snapshot, Record, Speed up / slow down, Frame-by-frame, Cut
Alarm Push	Alarm Type	Motion detect, Camera masking, Local alarm, Disk alarm (no disk, Low space, disk Error), Face detection, lvs alarm, Thermal Imaging Alarm, Defoucs, Audio Detect, HDD Alarm, Sensor Alarm, Network Alarm
	Push Type	Video, Preview, Image

DORI DISTANCE (D/O/R/I)

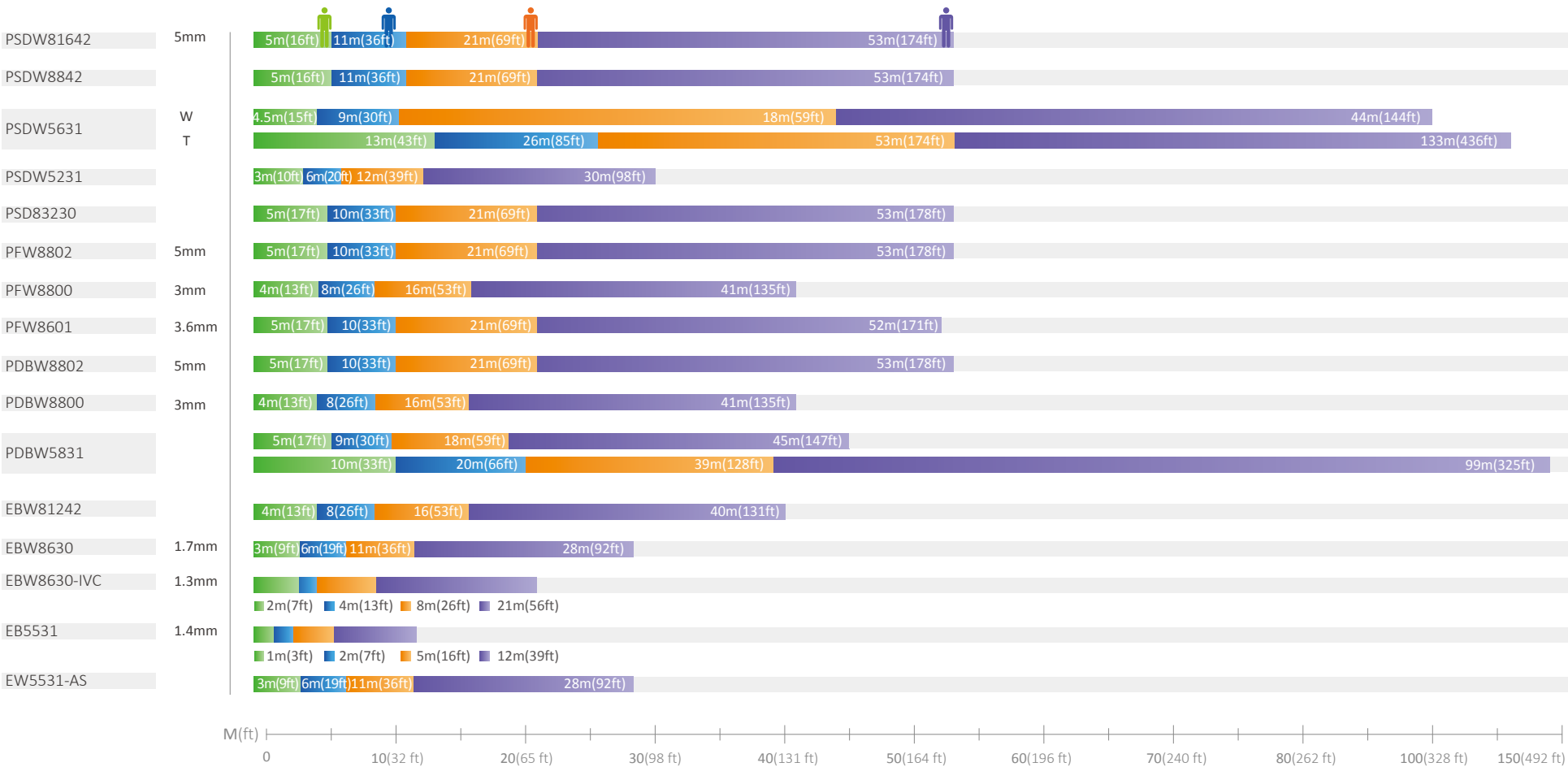
Find the Optimal Camera for Your Customized Surveillance Needs

The DORI distance is a “general proximity” of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test results according to EN 62676-4 that defines the criteria for Detect, Observe, Recognize, and Identify, respectively.

- Detect: 25ppm
- Observe: 63ppm
- Recognize: 125ppm
- Identify: 250ppm

NETWORK CAMERAS

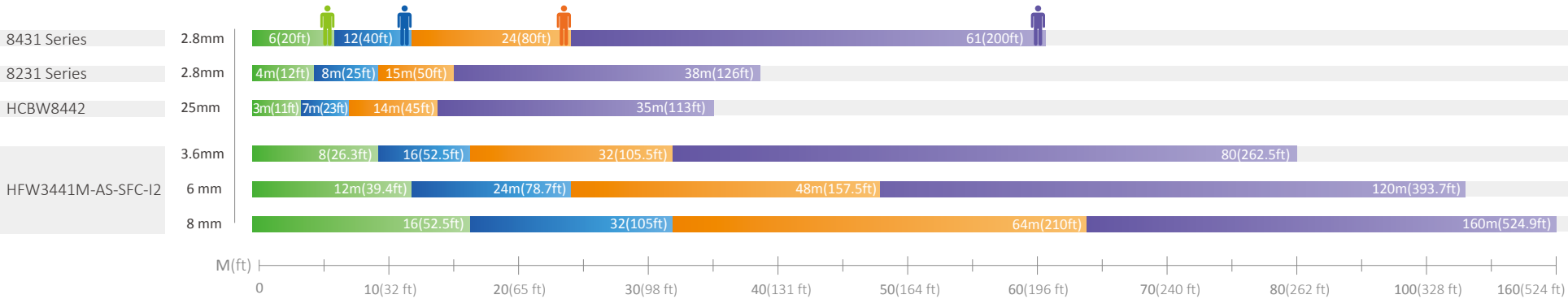
Panoramic Series



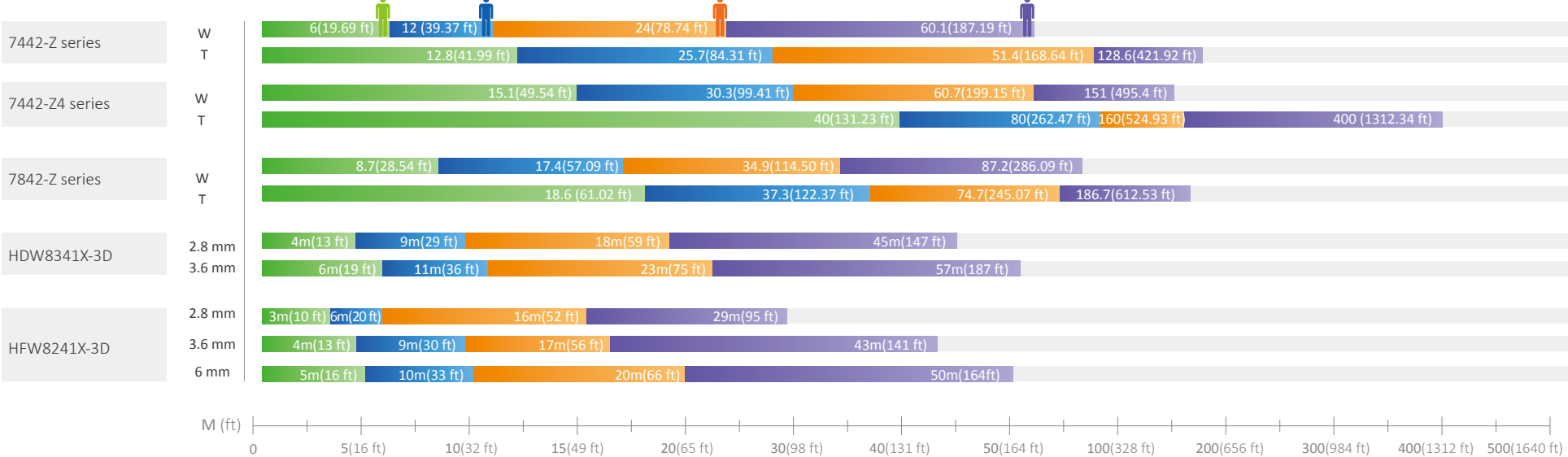
DORI DISTANCE (D/O/R/I)

NETWORK CAMERAS

Special Series



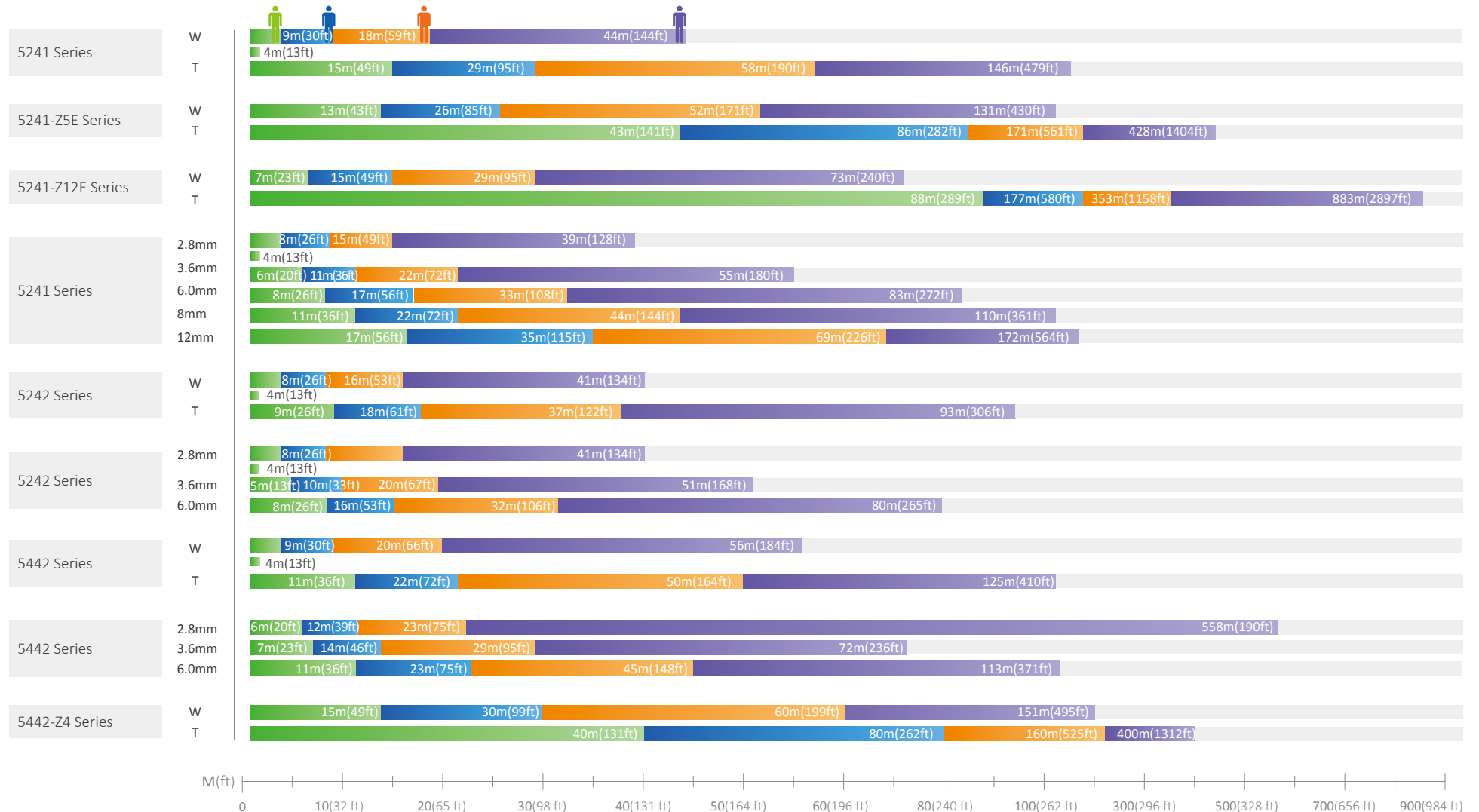
Ultra - AI Series



DORI DISTANCE (D/O/R/I)

NETWORK CAMERAS

Pro AI Series



NETWORK CAMERAS

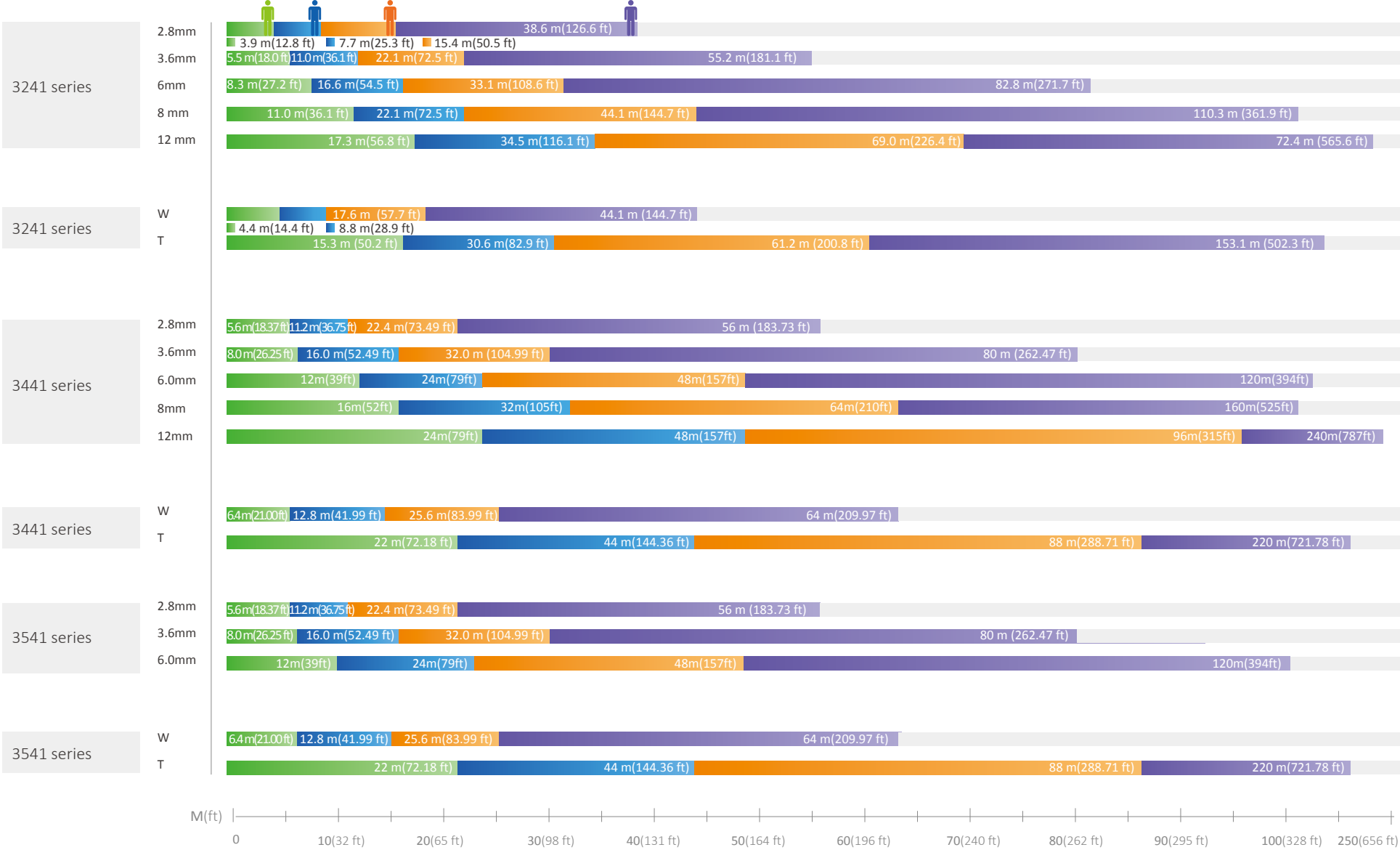
Series	Configuration	Length (m)	Length (ft)
5541 Series	W	6m	20ft
	T	21m	69ft
5541-Z5E Series	W	19m	62ft
	T	62m	203ft
5541 Series	2.8mm	6m	20ft
	3.6mm	8m	26ft
	6.0mm	12m	39ft
	8mm	16m	52ft
	12mm	24m	79ft
	12mm	24m	79ft
5842 Series	W	8m	28ft
	T	18m	61ft

[illegible]

DORI DISTANCE (D/O/R/I)

NETWORK CAMERAS

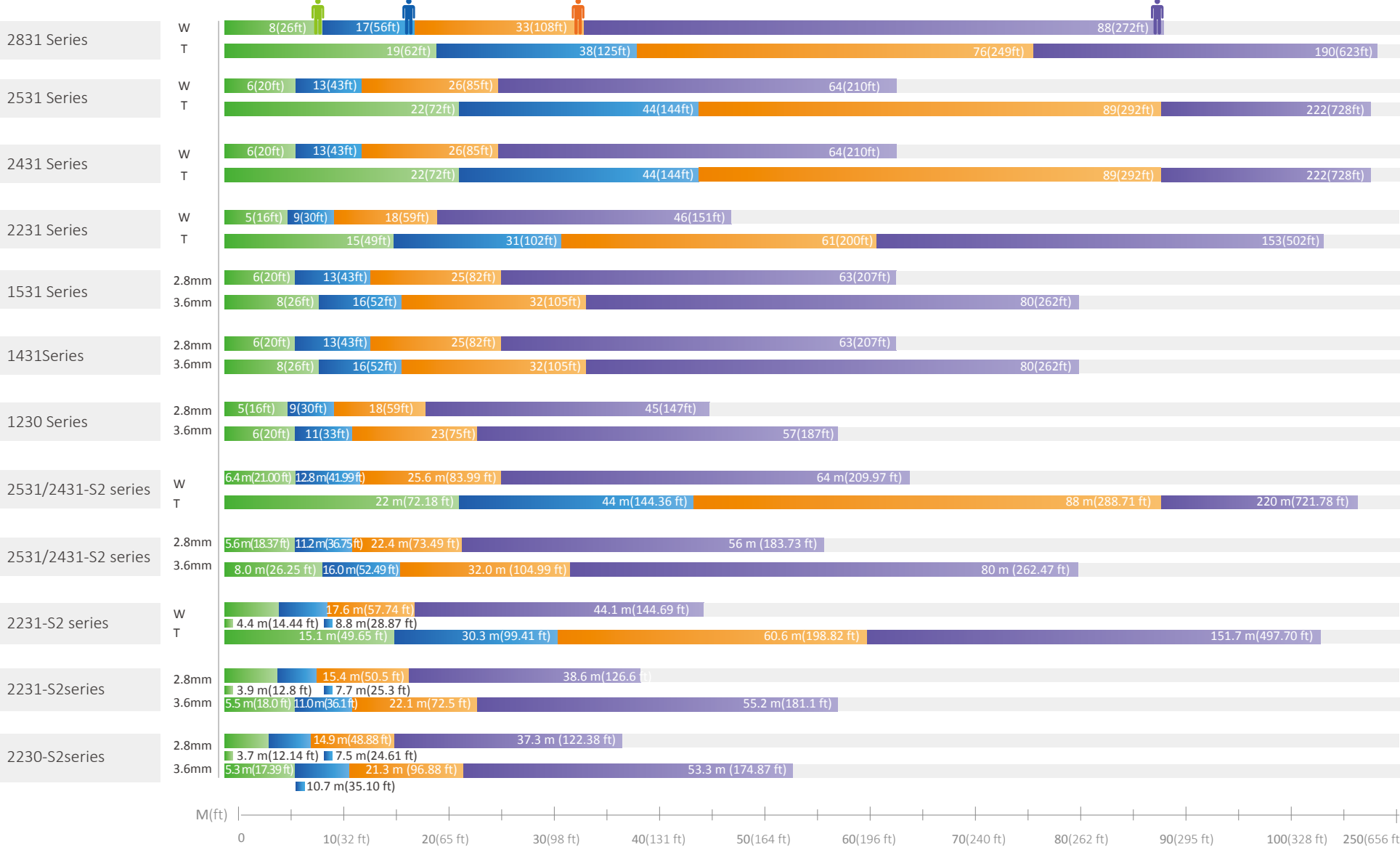
Lite AI Series



DORI DISTANCE (D/O/R/I)

NETWORK CAMERAS

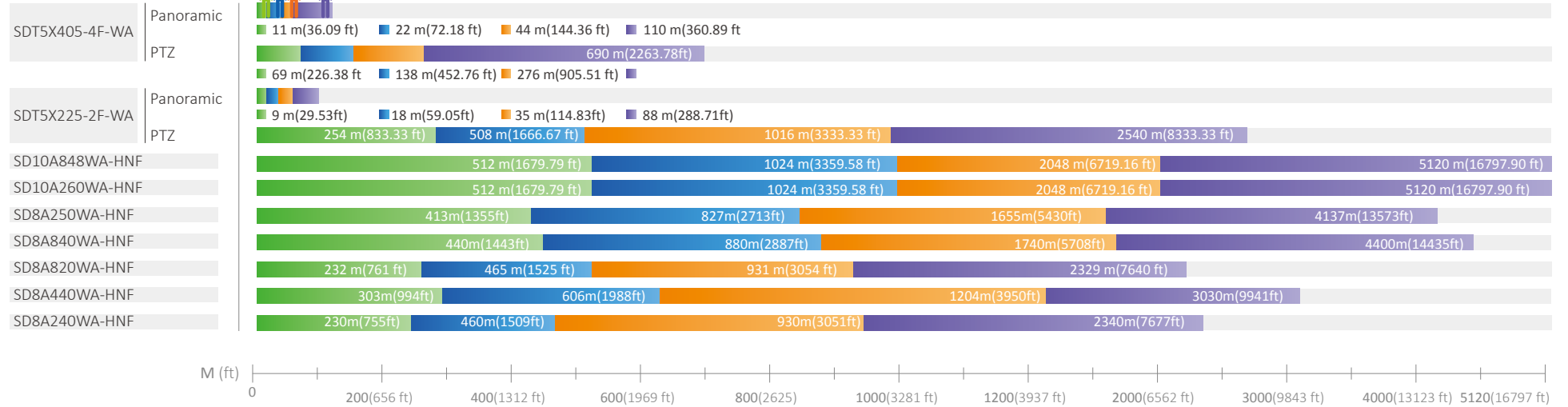
Lite Series



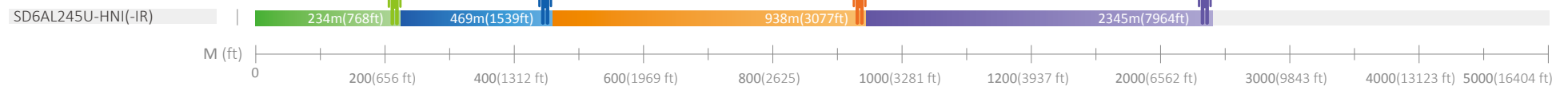
DORI DISTANCE (D/O/R/I)

NETWORK PTZ CAMERAS

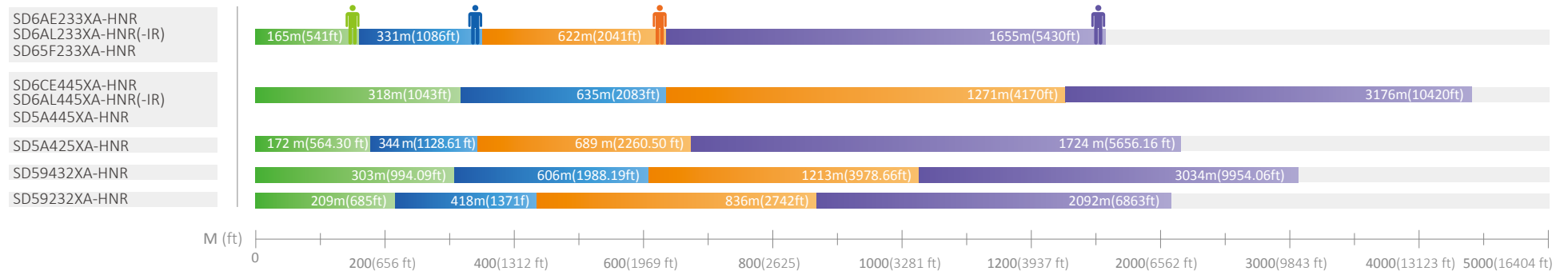
Ultra AI Series



Ultra Series



Pro-AI Series

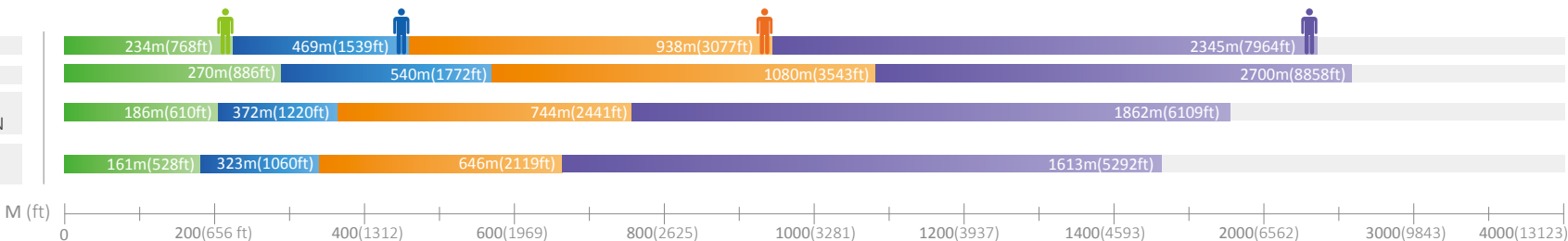


DORI DISTANCE (D/O/R/I)

NETWORK PTZ CAMERAS

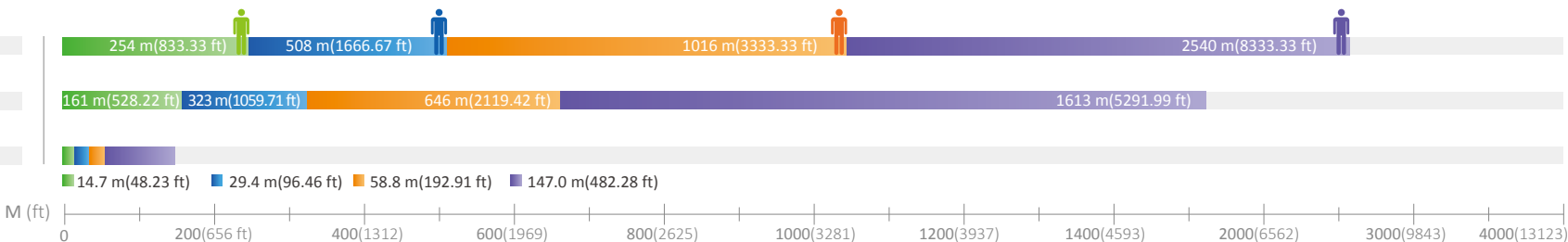
Pro Series

- SD6CE245U-HNI
- SD60/59/50/52C430U-HNI
- SD6CE/60/59/50/52C230U-HNI, SDZ(W)2030S-N
- SD6CE/60/59/50/52C225U-HNI



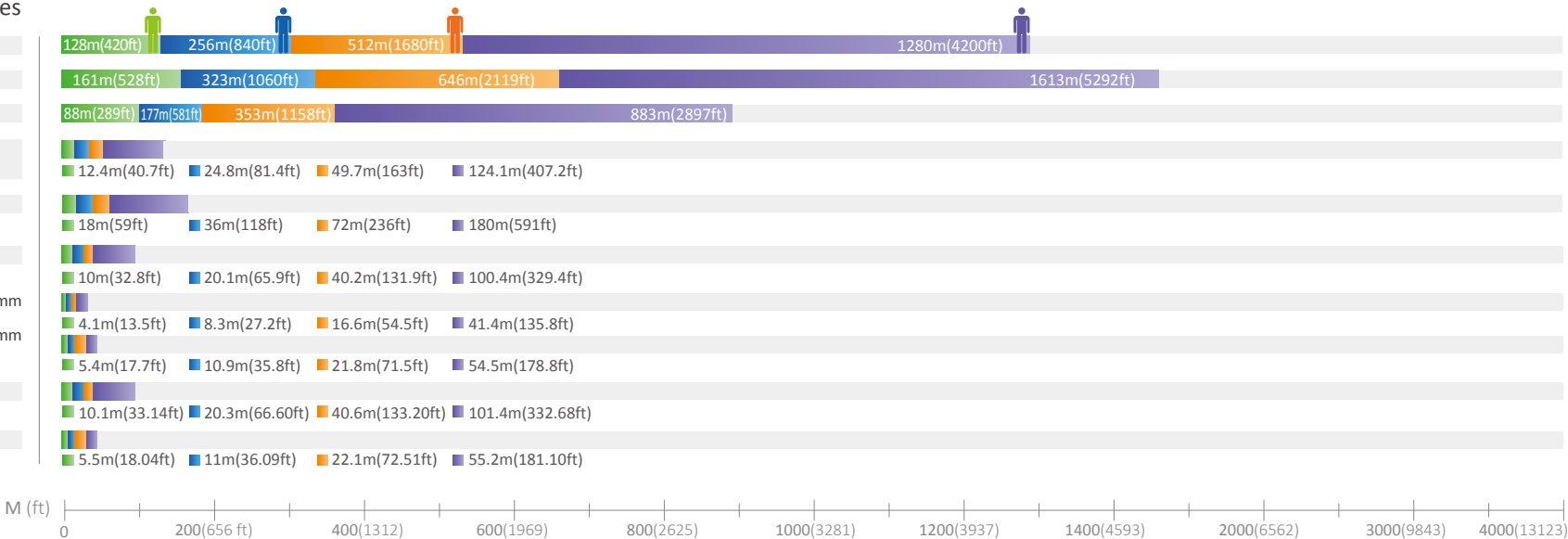
Lite AI Series

- SD49425XB-HNR(-G)
- SD49225XA-HNR
- SD1A404XB-GNR(-W)



Lite Series / Wi-Fi Series

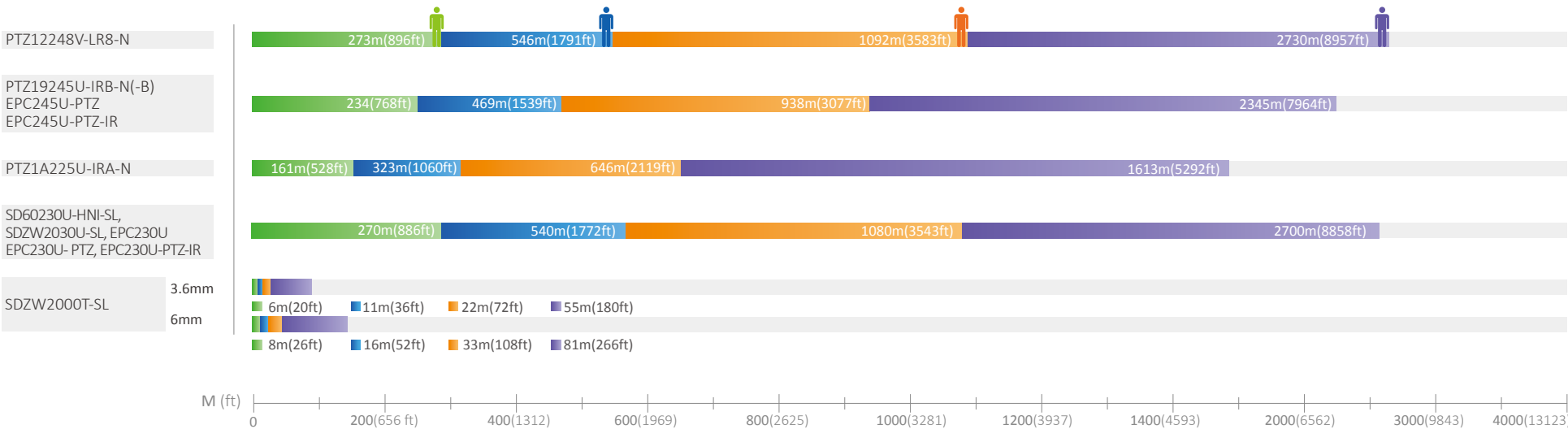
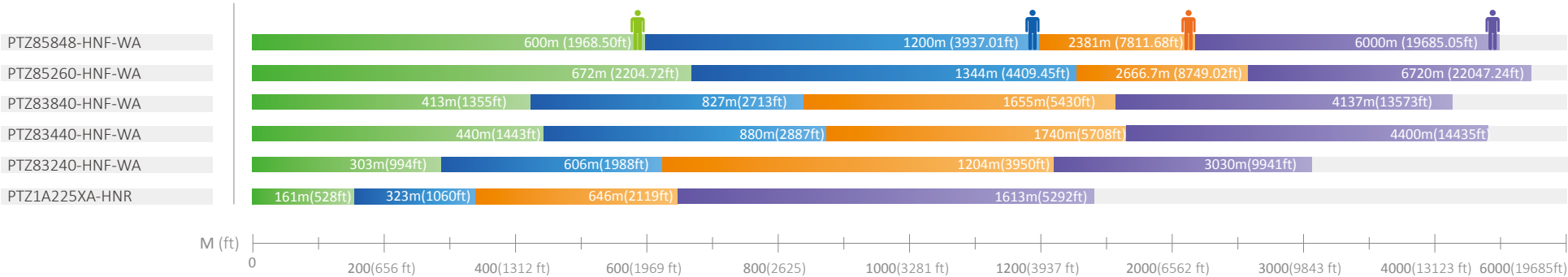
- SD49412T-HN
- SD49225T-HN(-W)
- SD49/40/42/42C212T-HN
- SD29204UE-GN(-W)
- SD22204UE-GN(-W)
- SD22404T-GN(-W)
- SD1A/12203T-GN(-W)
- SD1A/12200T-GN(-W)
- PTZ1C203UE-GN(-W)
- PTZ1C200UE-GN(-W)



DORI DISTANCE (D/O/R/I)

NETWORK PTZ CAMERAS

All-environment Series



DORI DISTANCE (D/R/I)

NETWORK THERMAL CAMERAS

The DRI (Detection Recognition Identification) is defined in terms of the number of pixels on the object depend on a common standard, Johnson's criteria
[http://en.wikipedia.org/wiki/Johnson's_criteria].

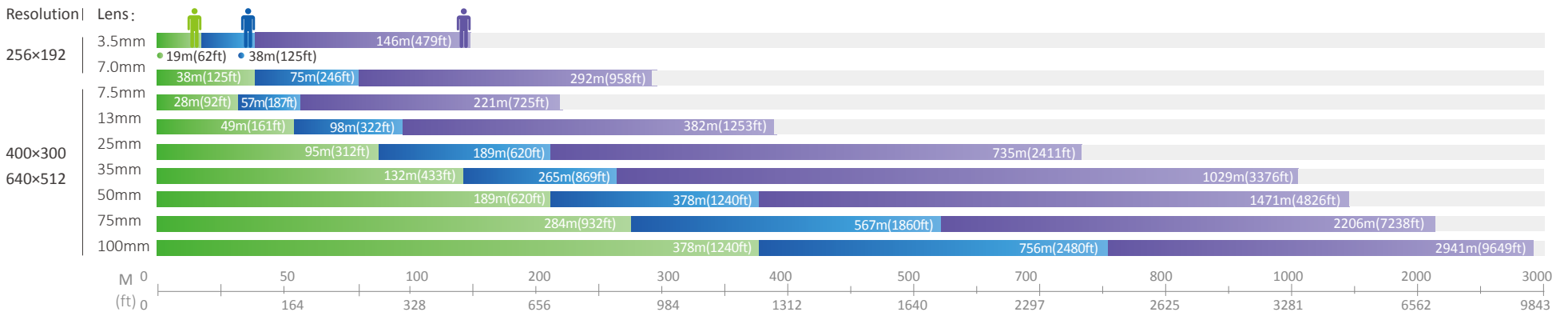
- Detection distance
- Recognition distance
- Identification distance

Detection: Distinguish objects from backgrounds [Something is there]
Required minimum pixels: Human 3.6 pixels, Vehicle 3 pixels

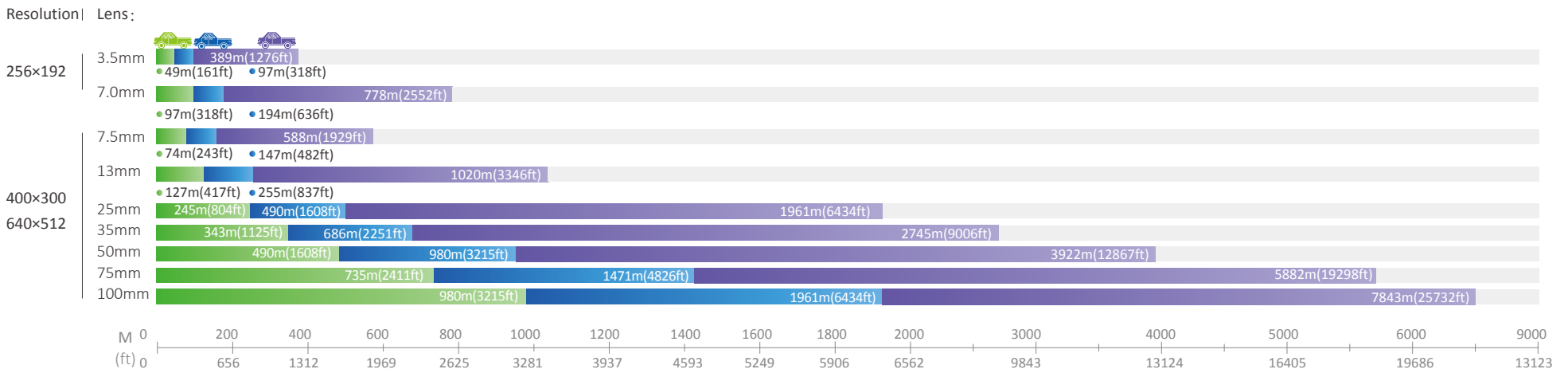
Recognition: Distinguish classification of objects [Human, Vehicle or Building]
Required minimum pixels: Human 14 pixels, Vehicle 12 pixels

Identification: Identify characteristic of objects [Soldier, Pickup truck or Hospital]
Required minimum pixels: Human 28 pixels, Vehicle 24 pixels

People (1.8m×0.5m)



Vehicle (4.0m×1.4m)



ENABLING A SAFER SOCIETY AND SMARTER LIVING

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* Design and specifications are subject to change without notice.

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