



# IP VIDEO PROJECT PRODUCTS

2021 Ver. 1

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



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# WizMind

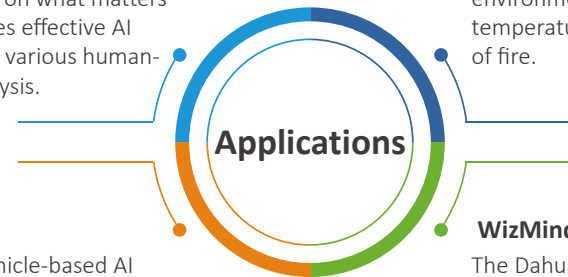
Dahua Technology, with its award-winning deep-learning algorithms, proudly releases WizMind, a portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, thermal and software platform, delivering precise, reliable and comprehensive AI solutions to verticals including government, retail, energy, finance and transportation.

## Human Applications

Powered by AI chip and deep learning algorithm, WizMind provides comprehensive human-oriented solutions, making it possible to quickly and accurately act on what matters to you. In addition, it provides effective AI search to locate targets, and various human-based data for business analysis.

## Vehicle Applications

WizMind boasts multiple vehicle-based AI solutions, which provide more attributes of vehicles for easy control, quick search and business analysis.



## Thermal Applications

WizMind combines deep learning algorithm with thermal imaging technology to help users achieve ultra-long distance monitoring in harsh environments, highly accurate non-contact temperature monitoring, and early detection of fire.

## WizMind Ecosystem

The Dahua WizMind series is compatible with major third party technology partners. Besides, the WizMind Ecosystem provides sufficient DHOP and API for our technology partners.

**Wiz Mind**

**Empowering verticals with  
leading AI technology**

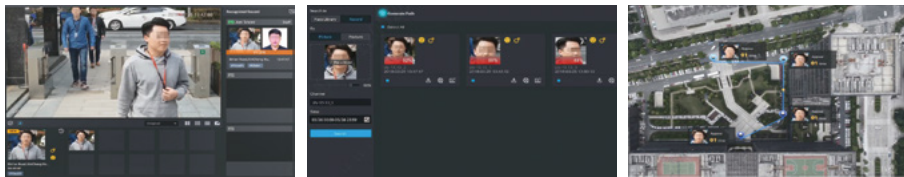




# Human Applications

## Face Recognition

Dahua Face Recognition solutions offer highly accurate detection rate and recognition rate with its advanced AI technology. The accuracy rate is up to 98%. It provides features such as blacklist alarm, VIP recognition, stranger alarm, AI search, face tracking, statistics etc. to improve user experience.



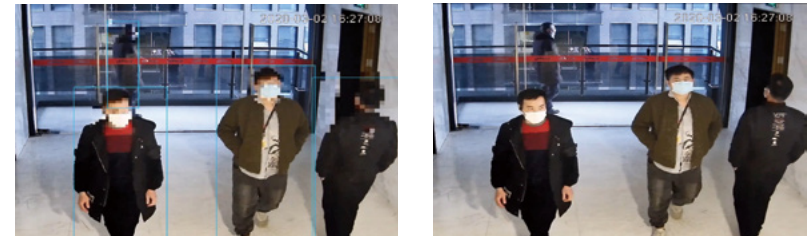
Face Recognition

AI Search

Face Tracking

## Privacy Protection

Based on Deep Learning Algorithm, Privacy Protection supports real-time mosaic masking of human face or human body detected in the monitored scene, protecting people's personal privacy. This function can achieve target detection of max. 64 objects/frame with a detection rate of up to 98%.

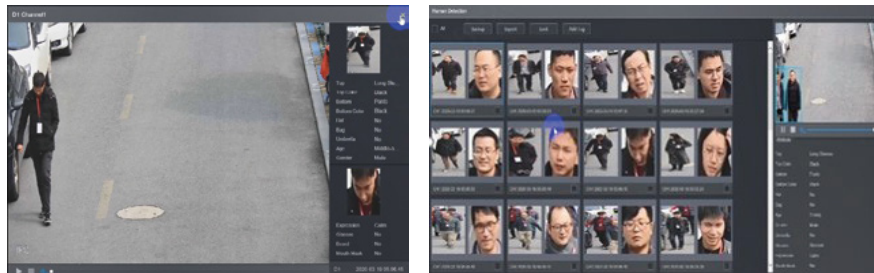


Face Mosaic

Recoverable Video

## Human Video Metadata

Human Video Metadata technology with deep learning algorithm can detect, track, and capture images of people. It selects the best images and extracts attributes of targets to locate them immediately, supporting up to 20+ kinds of human attributes.

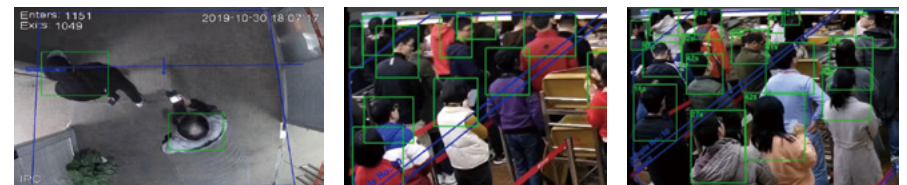


Human Video Metadata

Quick Target Search

## People Counting

Dahua People Counting can track and process moving human body targets to realize accurate statistics of people entering, leaving and currently within the monitored area. This feature provides customers with valuable data for business report analysis with up to 98% counting accuracy.



People Counting for Line Crossing

People Counting in Area

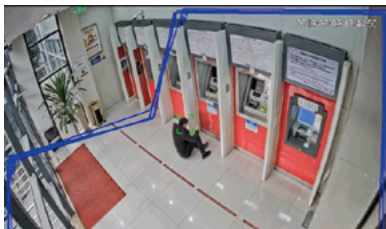
Queue Management



# Human Applications

## Stereo Analysis

With deep learning algorithm and 3-dimensional technology, Dahua Stereo Analysis technology offers various functions that can recognize people's behaviors, including fall detection, violence detection, strand detection, people approach and number of people error.



Fall Detection



People Approach

## Wide Area Security

Through multi-sensor automatic stitching technology, the Dahua Panoramic Surveillance realizes 360° monitoring with high-speed PTZ camera. It utilizes both panoramic and detail images to ensure that customers will not miss other targets on the panoramic view while looking at the details of the target's behavior on the PTZ camera.



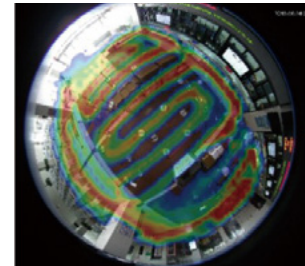
panoramic view



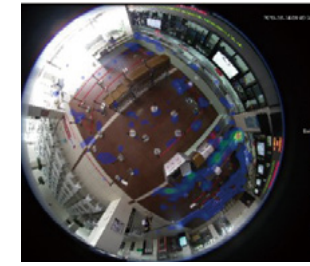
Target Details

## Heat Map

With deep learning technology, Dahua's new heat map function demonstrates two types of heat map charts based on the number of people and average strand time. Being widely used in retail shops, this feature enables business owners to easily analyze customers' preferences.



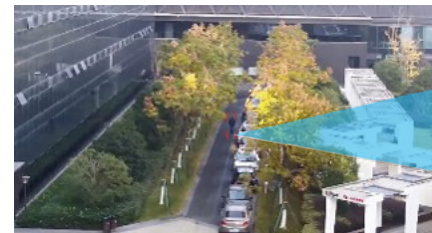
Heat Map for Number of People



Heat Map for Average Strand Time

## Smart Tracking

Aside from detecting humans entering a restricted area, smart tracking also automatically track objects all the time. According to different scenarios, Dahua provides different tracking solutions with accuracy rate of up to 90%.



Target Detection



Auto Tracking



# Vehicle Applications

## ANPR

With deep learning algorithm, Dahua ANPR (Automatic Number Plate Recognition) technology can recognize the number plate information of vehicles from 58 countries. This system can also be used to provide higher security in restricted area.



ANPR

## Illegal Parking Detection

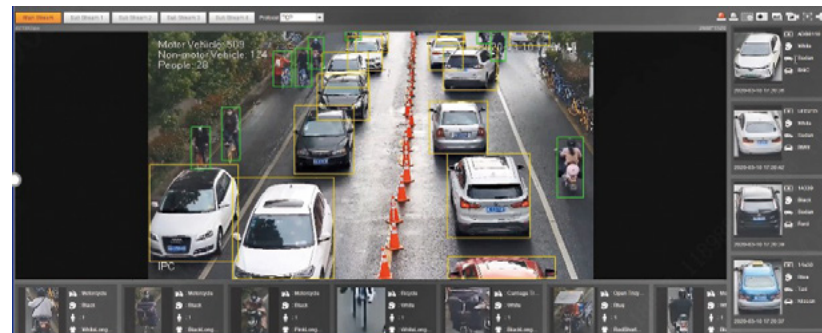
When a vehicle enters the monitored area, the Dahua Parking Detection technology based on CNN deep learning will capture its images and save metadata. It helps security personnel to ensure smooth traffic, and reduce accidents and property losses caused by illegal parking.



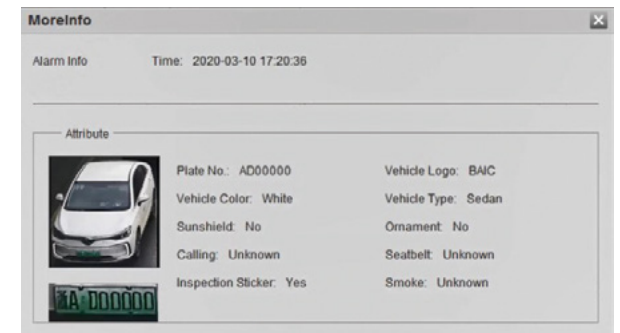
Illegal Parking Detection

## Vehicle Video Metadata

Vehicle Video Metadata includes vehicle attributes information extracted from a target that can be used for data retrieval. With the detection rate of up to 99%, this system can be used to locate targets quickly and efficiently.



Target Detection



Vehicle Metadata



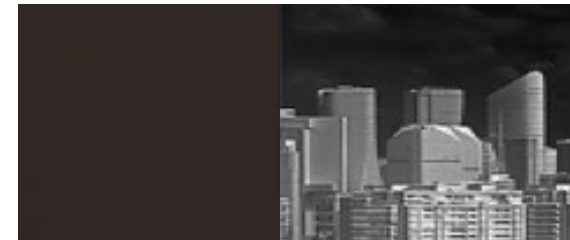
# Thermal Applications

## Long Distance Monitoring

With deep learning and thermal technology, this camera can realize long distance monitoring that can easily recognize human or vehicle even from far distance. In addition, it is also not affected by environmental factors, enabling it to provide a highly accurate thermal image of the scene.



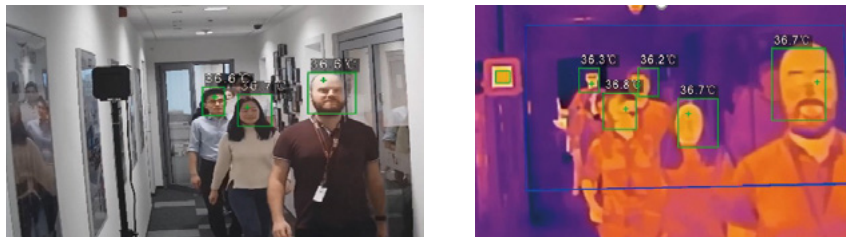
Ultra Long Range Detection Up to 20Km



Tested in Foggy Weather

## Temperature Measurement

There is a corresponding relationship between radiation energy and temperature. The different gray value can represent the different temperature in order to achieve an effective temperature monitoring function. The accuracy can reach  $\pm 0.3^{\circ}\text{C}$  with the blackbody.



Human Body Temperature Monitoring

## Fire Prevention

Thermal cameras can detect mild differences in temperature change. This feature allows thermal camera to detect objects with a temperature difference compared to the average temperature of the scene. As fires usually have much higher temperature than the surrounding environment, Dahua thermal cameras are able to detect the presence of fire in the scene.



Advanced Fire Detection



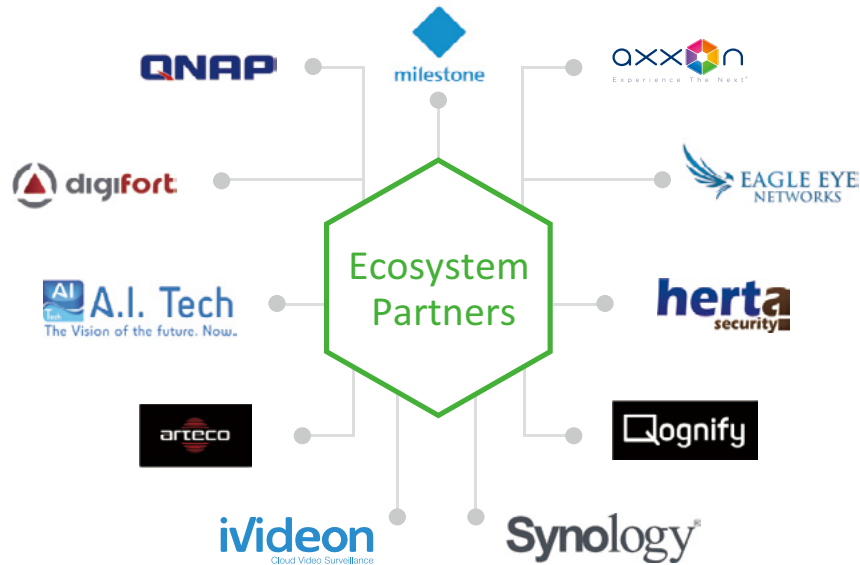
# WizMind Ecosystem

## Good Compatibility

Compatible with more than 200 technology partners, such as Milestone, Genetec, AxonSoft, Avigilon, ISS, Qognify, Luxriot, etc..

Advanced features like face recognition, perimeter protection, people counting are supported with main partners, which create different solutions to meet different requirements.

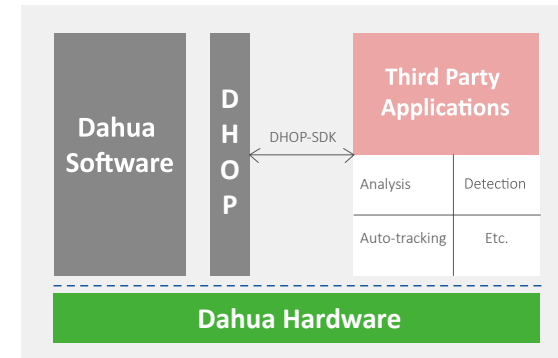
Milestone verified, Dahua heat map, metadata, people counting, face recognition, and plugin are tested and verified by Milestone team.



## DHOP

Dahua Open Platform (DHOP) allows 3rd party applications to be downloaded and installed on Dahua Network Cameras (WizMind IPC and thermal) based on your actual needs.

With more than 10 existing technology partners' application, bring more flexibility to our customers.



## Sufficient API

Sufficient API provided by Dahua, which allows any technology partners to integrate with WizMind products.

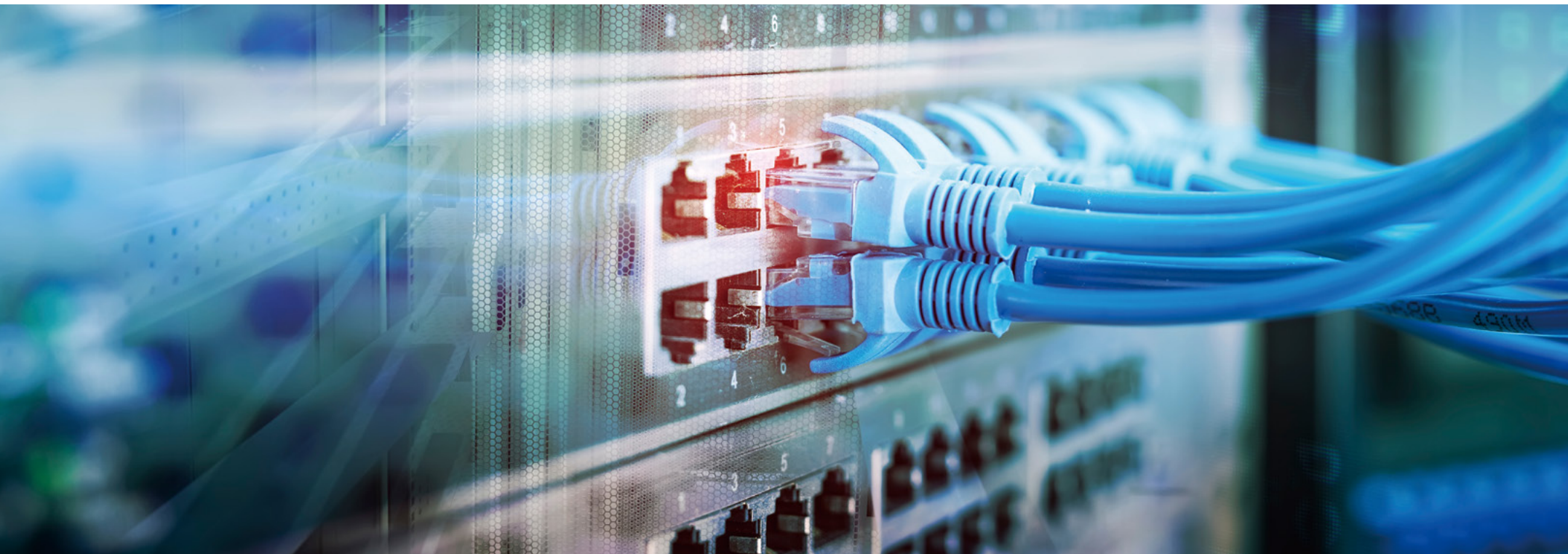
Complete SDK demo and API document available on our website, with strong customer support.

Standard protocol, like ONVIF, Wiegand is supported by Dahua products, allow you to use Dahua products with 3rd party software even without any integration.



# ePoE

Dahua ePoE technology provides a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

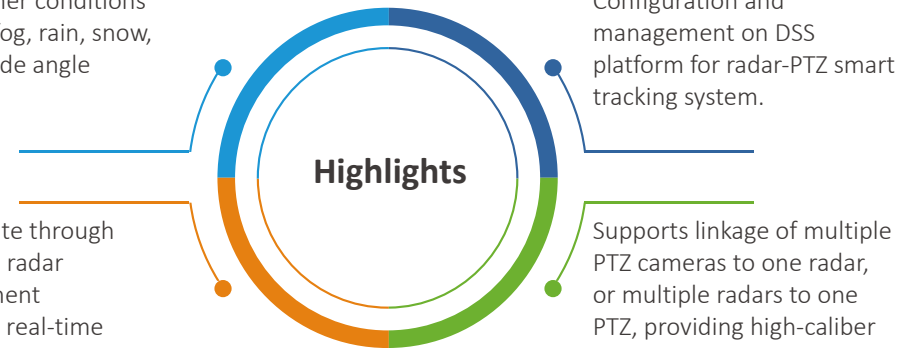


# Security Radar / Radar-PTZ Linkage System

The Security Radar / Radar-PTZ Linkage System, based on the principle of radar detection and intelligent tracking algorithm, can achieve all-weather and all environment target intrusion detection and display the movement tracks of the target on the radar map. Combined with Dahua's own ball control technology, it can realize essential functions including global radar large-scale detection and multi-PTZ video detail tracking by accessing the general PTZ cameras.

Works in all-weather conditions (darkness, heavy fog, rain, snow, etc.) with extra wide angle detection range.

Low false alarm rate through adoption of smart radar algorithm, movement tracks display, PTZ real-time monitoring, and human/vehicle target filtering.



# NETWORK CAMERAS



# WizMind Series Network Camera

With advanced deep learning algorithm, Dahua WizMind Series network camera supports various intelligent functions and satisfies the requirements in different scenes. This series of network camera has excellent image processing technology, performs good in WDR and low illuminance environment, and provides better solution for intelligent application.



## Perfect Performance

Adopts the advanced AI technologies including deep learning algorithms.



## AI Functions

- Face Recognition
- Privacy Protection
- Video Metadata
- People Counting
- Heat Map
- Stereo Analysis
- Smart Tracking Algorithms



## Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, the Dahua Smart Encoding technology offers higher encoding efficiency compared to H.265 and H.264, providing high-quality videos and reduces storage and transmission costs.












## Excellent Image

Provides clear image with the help of Ultra WDR (140dB)/Starlight+/Full-color.

# NETWORK CAMERAS




## WizMind 7 Series

### Box Camera

Model	IPC-HF71242F	IPC-HF7842F	IPC-HF7442F	IPC-HF7442F-FR
Appearance	  	   	    	    
Image Sensor	1/1.7" 12MP CMOS	1/1.8" 8MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS
Lens	C/CS	C/CS	C/CS	C/CS
FOV-H	--	--	--	--
Min. Illumination	0.01 Lux@F1.8	0.005 Lux@F1.5	0.001 Lux@F1.5	0.001 Lux@F1.5
Day/Night	ICR	ICR	ICR	ICR
WDR	DWDR	120dB	140dB	140 dB
Max. IR Distance	--	--	--	--
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Max. Resolution	12MP (4000×3000)	8MP (3840×2160)	4MP (2688×1520)	4MP (2688×1520)
Frame Rate	25/30fps@12MP	25/30fps@8MP	50/60fps@4MP	50/60fps@4MP
Multi-streaming	5 streams	5 streams	5 streams	5 streams
Pan/Tilt/Rotation	--	--	--	--
Compatibility	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP
Audio In/Out	2/1, Built-in MIC	2/1, Built-in MIC	2/1, Built-in MIC	2/1, Built-in MIC
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	2 channels in: 5mA 3V~5V DC 2 channels out: 1,000mA 30V DC/500mA 50V DC	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)	-30°C~-60°C (-22°F~+140°F)
Power	12V DC/24V AC/PoE (802.3af), Max. 12.7W	12V DC/24V AC/POE+ (802.3at), Max. 14.4W	12V DC/24V AC/POE+ (802.3at), Max. 14.4W	12V DC/24V AC/POE+ (802.3at), Max. 14.4W
<b>Artificial Intelligence</b>				
Face Detection	Supported	Supported	Supported	Supported
Face Recognition	--	--	--	Supported
Video Metadata	Supported	Supported	Supported	Supported
Privacy Protection	--	--	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.
People Counting	Support 4 tripwire number counting, 4 areas people counting, and 4 queue managements.	Support 4 tripwire number counting, 4 areas people counting, and 4 queue managements.	Support 4 tripwire number counting, 4 areas people counting, and 4 queue managements.	Support 4 tripwire number counting, 4 areas people counting, and 4 queue managements.
<b>General Intelligence</b>				
IVS	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing






## WizMind 7 Series

### Vari-focal Bullet

Model	IPC-HFW71242H-Z	IPC-HFW7842H-Z	IPC-HFW7842H-Z4	IPC-HFW7442H-Z	IPC-HFW7442H-ZFR
Appearance					
Image Sensor	1/1.7" 12MP CMOS	1/1.8" 8MP CMOS	1/1.8" 8MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS
Lens	2.7mm~12mm motorized lens	2.7mm~12mm motorized lens	8mm~32mm motorized lens	2.7mm~12mm motorized lens	2.7mm~12mm motorized lens
FOV-H	103°~44°	114°~47°	40°~15°	114°~47°	114°~47°
Min. Illumination	0.01 Lux@F1.8	0.003 Lux@F1.2	0.005 Lux@F1.26	0.001 Lux@F1.2	0.001 Lux@F1.2
Day/Night	ICR	ICR	ICR	ICR	ICR
WDR	DWDR	120dB	120dB	140dB	140 dB
Max. IR Distance	60m (196.9ft)	60m (196.9ft)	120m (393.70ft)	60m (196.9ft)	60m (196.9ft)
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Max. Resolution	12MP (4000x3000)	8MP (3840x2160)	8MP (3840x2160)	4MP (2688x1520)	4MP(2688x1520)
Frame Rate	25/30fps@12MP	25/30fps@8MP	25/30fps@8MP	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; Milestone; Genetec; P2P;RTMP	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP
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 3V~5V DC 2 channels out: 1,000mA 30V DC/ 500mA 50V DC	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+ (802.3at), Max. 19.32W	12V DC/24V AC/POE+ (802.3at), Max. 17.3W	12V DC/24V AC/POE+(802.3at), Max. 17.3W	12V DC/24V AC/POE+ (802.3at), Max. 17.3W	12V DC/24V AC/POE+ (802.3at), Max. 17.3W
<b>Artificial Intelligence</b>					
Face Detection	Supported	Supported	Supported	Supported	Supported
Face Recognition	--	--	--	--	Supported
Video Metadata	Supported	Supported	Supported	Supported	Supported
Privacy Protection	--	--	--	Supported	Supported
ANPR	Supported	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.				
People Counting	Support 4 tripwire number counting, 4 areas people counting, and 4 queue managements.				
<b>General Intelligence</b>					
IVS	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing










# NETWORK CAMERAS

## WizMind 7 Series

	Vari-focal Bullet		Vari-focal Dome		
Model	IPC-HFW7442H-Z4	IPC-HFW7442H-Z4FR	IPC-HDBW71242H-Z	IPC-HDBW7842H-Z	IPC-HDBW7842H-Z4
Appearance					
Image Sensor	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS	1/1.7" 12MP CMOS	1/1.8" 8MP CMOS	1/1.8" 8MP CMOS
Lens	8mm~32mm motorized lens	8mm~32mm motorized lens	2.7mm~12mm motorized lens	2.7mm~12mm motorized lens	8mm~32mm motorized lens
FOV-H	40°~15°	40°~15°	103°~44°	114°~47°	40°~15°
Min. Illumination	0.001 Lux@F1.6	0.001 Lux@F1.6	0.01 Lux@F1.8	0.003 Lux@F1.2	0.005 Lux@F1.6
Day/Night	ICR	ICR	ICR	ICR	ICR
WDR	140dB	140 dB	DWDR	120dB	120dB
Max. IR Distance	120m (393.70ft)	120m (393.70ft)	40m(131.23ft)	40m(131.23ft)	80m (262.5ft)
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Max. Resolution	4MP (2688x1520)	4MP(2688x1520)	12MP (4000x3000)	8MP (3840x2160)	8MP (3840x2160)
Frame Rate	50/60fps@4MP	50/60fps@4MP	25/30fps@12MP	25/30fps@8MP	25/30fps@8MP
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°~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; Milestone; Genetec; P2P;RTMP	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP
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 3V~5V DC 2 channels out: 1,000mA 30V DC/ 500mA 50V DC	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+ (802.3at), Max. 17.3W	12V DC/24V AC/POE+ (802.3at), Max. 17.3W	12V DC/24V AC/POE+ (802.3at), Max. 19.32W	12V DC/24V AC/POE+ (802.3at), Max. 16.7W	12V DC/24V AC/POE+(802.3at), Max. 16.7W
<b>Artificial Intelligence</b>					
Face Detection	Supported	Supported	Supported	Supported	Supported
Face Recognition	--	Supported	--	--	--
Video Metadata	Supported	Supported	Supported	Supported	Supported
Privacy Protection	Supported	Supported	--	--	--
ANPR	Supported	--	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.				
People Counting	Support 4 tripwire number counting, 4 areas people counting, and 4 queue managements.				
<b>General Intelligence</b>					
IVS	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing

## WizMind 7 Series





### Vari-focal Dome

Model	IPC-HDBW7442H-Z	IPC-HDBW7442H-ZFR	IPC-HDBW7442H-Z4	IPC-HDBW7442H-Z4FR
Appearance	    	    	    	    
Image Sensor	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	8mm ~32mm motorized lens	8mm ~32mm motorized lens
FOV-H	114°~47°	114°~47°	40°~15°	40°~15°
Min. Illumination	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
WDR	140dB	140 dB	140dB	140 dB
Max. IR Distance	40m(131.23ft)	40m(131.23ft)	80m (262.5ft)	80m (262.5ft)
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Max. Resolution	4MP (2688x1520)	4MP(2688x1520)	4MP (2688x1520)	4MP (2688x1520)
Frame Rate	50/60fps@4MP	50/60fps@4MP	50/60fps@4MP	50/60fps@4MP
Multi-streaming	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°
Compatibility	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP
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 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
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)
Power	12V DC/24V AC/POE+ (802.3at), Max. 16.7W	12V DC/24V AC/POE+ (802.3at), Max. 16.7W	12V DC/24V AC/POE+ (802.3at), Max. 16.7W	12V DC/24V AC/POE+ (802.3at), Max. 16.7W
<b>Artificial Intelligence</b>				
Face Detection	Supported	Supported	Supported	Supported
Face Recognition	--	Supported	--	Supported
Video Metadata	Supported	Supported	Supported	Supported
Privacy Protection	Supported	Supported	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.	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	Support 4 tripwire number counting, 4 areas people counting, and 4 queue managements.	Support 4 tripwire number counting, 4 areas people counting, and 4 queue managements.	Support 4 tripwire number counting, 4 areas people counting, and 4 queue managements.	Support 4 tripwire number counting, 4 areas people counting, and 4 queue managements.
<b>General Intelligence</b>				
IVS	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing









# NETWORK CAMERAS

## WizMind Special Series

	Dual-lens Camera		Triple-Lens Camera	
Model	IPC-HDW8341X-3D-S2	IPC-HDW8341X-BV-3D	IPC-HFW8841X-E3-LB	IPC-HFW8841X-E3
Appearance				
Image Sensor	Two 1/2.8" 3MP CMOS	Two 1/2.8" 3MP CMOS	Channel 1: 1/1.8" 8MP CMOS Channel 2: 1/2.8" 2MP CMOS	Channel 1: 1/1.8" 8MP CMOS Channel 2: 1/2.8" 2MP CMOS
Lens	2.8mm fixed lens (3.6mm optional)	2.8mm fixed lens (3.6mm optional)	2.8mm fixed lens (6mm optional)	2.8mm fixed lens
FOV-H	96°/79°	96°/79°	2.8 mm: Channel 1: 110.8°; Channel 2: 106° 6 mm: Channel 1: 55°; Channel 2: 54°	2.8 mm: Channel 1: 110.8°; Channel 2: 106°
Min. Illumination	0.005 Lux @F1.6	0.005 Lux @F1.6	Channel 1: 0.0015 Lux @F1.6 Channel 2: 0.002 Lux @F1.6	Channel 1: 0.0015 Lux @F1.6 Channel 2: 0.002 Lux @F1.6
Day/Night	ICR	ICR	ICR	ICR
WDR	DWDR	DWDR	120 dB	120 dB
Max. IR Distance	20m (65.6ft)	20m (65.6ft)	2.8 mm: 30 m (98.4 ft); 6 mm: 35 m (114.8 ft)	30 m (98.4 ft)
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+/H.264+	Smart H.265+/H.264+	Supported	Supported
Max. Resolution	3MP (2048x1536)	3MP (2048x1536)	Channel 1: 8MP(3840 × 2160) Channel 2: 2MP(1920 × 1080)	Channel 1: 8MP(3840 × 2160) Channel 2: 2MP(1920 × 1080)
Frame Rate	25/30fps@3MP	25/30fps@3MP	Channel 1: 25/30fps@8MP Channel 2: 25/30fps@2MP	Channel 1: 25/30fps@8MP Channel 2: 25/30fps@2MP
Multi-streaming	5 streams	5 streams	4 streams	4 streams
Pan/Tilt/Rotation	Tilt: 0°~70°	Tilt: 0°~70°	Tilt: 0°~90°	Tilt: 0°~90°
Compatibility	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P; RTMP	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P; RTMP	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P; RTMP	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P; RTMP
Audio In/Out	2/1,Built-in MIC&Speaker	2/1,Built-in MIC&Speaker	1/1,Built-in MIC	1/1,Built-in MIC
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	2 channel In: 5mA 3V~5V DC 2 channel Out: 1,000mA 30V DC/500mA 50V DC	2 channel In: 5mA 3V~5V DC 2 channel Out: 1,000mA 30V DC/500mA 50V DC	3 channels In: 5mA 3V~5V DC 2 channels out: 1,000mA 30V DC/500mA 50V DC	3 channels in: 5mA 3V~5V DC 2 channels out: 1,000mA 30V DC/500mA 50V DC
Ingress Protection	IP67, IK10	IP67, IK10	IP67	IP67
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)
Power	12V DC/PoE (802.3af), Max. 10.6W	12V DC/PoE (802.3af), Max. 10.6W	12V DC/PoE, Max. 12.94W	12V DC/PoE, Max. 12.94W
<b>Artificial Intelligence</b>				
Face Detection	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.	--	Support people counting in 4 areas
People Counting	Support 4 tripwire number counting, 4 areas people counting, and 4 queue managements.	--	Fall detection, Strand detection, People approach, People NO. error detection, Violence detection.	Fall detection, Strand detection, People approach, People NO. error detection, Violence detection.
Stereo Analysis	--	Fall detection, Strand detection, People approach, People NO. error detection, Violence detection	Classroom: Support people number error detection, running detection, walking detection, back detection, blackboard writing detection, fall detection, and activation analysis	Classroom: Support stand detection
<b>General Intelligence</b>				
IVS	Object Abandoned/Missing	Object Abandoned/Missing	Tripwire, intrusion, loitering detection, people gathering, abandoned object, missing object	Tripwire, intrusion, loitering detection, people gathering, abandoned object, missing object







## WizMind Special Series

	Corner Camera	Explosion Proof Dome
Model	IPC-HCBW8442	IPC-HDEW8441R-Z
Appearance	  	  
Image Sensor	1/1.8" 4MP CMOS	1/2.7" 4MP CMOS
Lens	2.5mm fixed lens	2.7mm ~13.5mm motorized lens
FOV-H	135°	100.4°~30.2°
Min. Illumination	0.004 Lux@F2.0	0.005Lux@F1.5
Day/Night	ICR	ICR
WDR	140dB	120dB
Max. IR Distance	10 m (32.8 ft)	50 m (164.0 ft)
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+/H.264+	Smart H.265+/H.264+
Max. Resolution	4MP(2688x1520)	4MP(2688x1520)
Frame Rate	25/30 fps@4MP	25/30 fps@4MP
Multi-streaming	3 streams	3 streams
Pan/Tilt/Rotation	Vertical:-10°~+10°; Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75°; Rotation: 0°~355°
Compatibility	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec; P2P	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
Audio In/Out	1/1,Built-in MIC	3/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	1 channel in: 5mA 3V~5V DC 1 channel out: 300mA 12V DC	3 channel in: 5mA 3V~5V DC 2 channel out: 300mA 12V DC
Ingress Protection	IP67; IK10+50J	IP68; IK10
Working Temperature	-30°C~+60°C (-22°F to +140°F)	-40°C ~+60°C (-40°F to +140°F)
Power	12V DC/PoE, Max. 11.5W	12V DC/PoE, Max. 8.2W
<b>Artificial Intelligence</b>		
Face Detection	--	Supported
Perimeter Protection	Tripwire; intrusion(the two functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering.	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human), abandoned object, missing object, loitering detection, people gathering.
People Counting	Support 4 tripwire number counting, 4 areas people counting , and 4 queue managements.	Support 4 tripwire number counting, 4 areas people counting , and 4 queue managements.
Stereo Analysis	--	--
<b>General Intelligence</b>		
IVS	Object Abandoned/Missing	Object Abandoned/Missing

# NETWORK CAMERAS







## WizMind 5 Series

### Junction Box Housing

Model	IPC-HFW5842H-ZHE	IPC-HFW5842H-Z4HE	IPC-HFW5442H-ZE/ZHE	IPC-HFW5442H-Z4E	IPC-HFW5242H-ZE/ZHE-MF	IPC-HFW5242H-Z6E-MF
Appearance	 ePoE WizMind 4K Starlight+	 ePoE WizMind 4K Starlight	 ePoE WizMind DHOP Starlight+	 ePoE WizMind DHOP Starlight+	 ePoE WizMind DHOP Starlight+	 ePoE WizMind DHOP Starlight+
Image Sensor	1/1.8"8Mp CMOS	1/1.8"8Mp CMOS	1/1.8"4Mp CMOS	1/1.8"4Mp CMOS	1/1.8"2Mp CMOS	1/1.8"2Mp CMOS
Lens	2.7~12mm motorized lens	8~32 mm motorized lens	2.7~12 mm motorized lens	8~32 mm motorized lens	2.7mm~18mm motorized lens	8~48 mm motorized lens
FOV-H	114°~47°	40°~15°	107°~44°	42°~15°	107°~33.9°	42°~10.9°
Min. Illumination	0.003 Lux@F1.2	0.005 Lux@F1.6	0.003Lux@F1.8	0.002 Lux@F1.6	0.003Lux@F1.8	0.002Lux@F1.6
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
WDR	120dB	120dB	140dB	140dB	140dB	140dB
Max. IR Distance	60m (196.85ft)	120m (393.7ft)	60m (196.85ft)	120m (393.7ft)	70m (229.7ft)	140m (459.3ft)
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	H.265/H.264/H.264B/H.264H
Smart Codec	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Max. Resolution	8MP (3840x2160)	8MP (3840x2160)	4MP (2688x1520)	4MP (2688x1520)	1080P (1920x1080)	1080P(1920x1080)
Frame Rate	25/30fps@8Mp	25fps/30fps@8Mp	25/30fps@4Mp	25/30fps@4Mp	50/60fps@1080P	50/60fps@1080P
Multi-streaming	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°~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	ONVIF Profile S, G & T, CGI
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	3 channel In: 5mA 5V DC 2 channel Out: 1000mA 30V DC/500mA 50V AC	3 channel In: 5mA 5V DC 2 channel Out: 1000mA 30V DC/500mA 50V AC	3 channel In: 5mA 5VDC 2 channel Out: 300mA 12VDC	3 channel In: 5mA 5VDC 2 channel Out: 300mA 12VDC	3 channel In: 5mA 5VDC 2 channel Out: 300mA 12VDC	3 channel In: 5mA 5VDC 2 channel Out: 300mA 12VDC
Ingress Protection	IP67, IK10	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)	-30°C~+60°C (-22°F~+140°F) (-ZE) -40°C~+60°C (-40°F~+140°F) (-ZHE)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F) (-ZE) -40°C~+60°C (-40°F~+140°F) (-ZHE)	-30°C~+60°C (-22°F~+140°F)
Power	12V DC/24V AC/POE+ (802.3at), Max. 17.3W	12V DC/24V AC/POE+ (802.3at), Max. 17.3W	DC12V, PoE (802.3af), Max. 11.6W (-ZE); DC12V, PoE (802.3af), Max. 11.6W (-ZHE)	DC12V, PoE (802.3af), Max. 11.6W	DC12V, PoE (802.3af), Max. 11.6W (-ZE) DC12V, PoE (802.3af), Max. 11.6W (-ZHE)	DC12V, PoE (802.3af), Max. 11.6W
<b>Artificial Intelligence</b>						
Face Detection	Supported	Supported	Supported	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					
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.					
People Counting	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection					
<b>General Intelligence</b>						
IVS	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map

## WizMind 5 Series



### Junction Box Housing

Model	IPC-HDBW5842H-ZHE	IPC-HDBW5842H-Z4HE	IPC-HDBW5442H-ZE/ZHE	IPC-HDBW5442H-Z4E	IPC-HDBW5242H-ZE/ZHE-MF	IPC-HDBW5242H-Z6E-MF
Appearance	 ePoE <b>WizMind</b> 4K Starlight+	 ePoE <b>WizMind</b> 4K Starlight	 ePoE <b>WizMind</b> DHOP Starlight+	 ePoE <b>WizMind</b> DHOP Starlight+	 ePoE <b>WizMind</b> DHOP Starlight+	 ePoE <b>WizMind</b> DHOP Starlight+
Image Sensor	1/1.8" 8Mp CMOS	1/1.8" 8Mp CMOS	1/1.8" 4Mp CMOS	1/1.8" 4Mp CMOS	1/1.8" 2Mp CMOS	1/1.8" 2Mp CMOS
Lens	2.7 mm~12.0mm motorized lens	8~32 mm motorized lens	2.7~12 mm motorized lens	8~32 mm motorized lens	2.7mm~18mm motorized lens	8~48 mm motorized lens
FOV-H	114°~47°	40°~15°	107°~44°	42°~15°	107°~33.9°	42°~10.9°
Min. Illumination	0.003 Lux@F1.2	0.005 Lux@F1.6	0.003 Lux@F1.8	0.002 Lux@F1.6	0.003 Lux@F1.8	0.002 Lux@F1.6
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
WDR	120 dB	120dB	140dB	140dB	140dB	140dB
Max. IR Distance	40 m (131.23ft)	80m (262.5ft)	40m (131.2ft)	80m (262.5ft)	50m (164ft)	100m (328.1ft)
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	H.265/H.264/H.264B/H.264H
Smart Codec	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Max. Resolution	8MP (3840×2160)	8MP (3840×2160)	4MP (2688×1520)	4MP (2688×1520)	1080P (1920×1080)	1080P (1920×1080)
Frame Rate	25 fps/30 fps@8Mp	25fps/30fps@8Mp	25/30fps@4Mp	25/30fps@4Mp	50/60fps@1080P	50/60fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	Pan:0°~355°; Tilt:0°~80° Rotation:0°~355°	Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°	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, 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	ONVIF Profile S, G&T, CGI
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	3 channel In: 5mA 5V DC 2 channel Out: 1000mA 30V DC/500mA 50V AC	3 channel In: 5mA 5V DC 2 channel Out: 1000mA 30V DC/500mA 50V AC	3 channel In: 5mA 5VDC 2 channel Out: 300mA 12VDC	3 channel In: 5mA 5VDC 2 channel Out: 300mA 12VDC	3 channel In: 5mA 5VDC 2 channel Out: 300mA 12VDC	3 channel In: 5mA 5VDC 2 channel Out: 300mA 12VDC
Ingress Protection	IP67, IK10	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)	-30°C~-60°C (-22°F~+140°F) (-ZE) -40°C+60°C (-40°F~+140°F) (-ZHE)	-30°C~-60°C (-22°F~+140°F)	-30°C~-60°C (-22°F~+140°F) (-ZE) -40°C+60°C (-40°F~+140°F) (-ZHE)	-30°C~-60°C (-22°F~+140°F)
Power	12V DC/24V AC/PoE+ (802.3at), Max. 15.7W	12V DC/24V AC/POE+ (802.3at), Max. 16.7W	DC12V, PoE (802.3af), Max. 11.9W(-ZE) DC12V, PoE (802.3af), Max. 11.9W (-ZHE)	DC12V, PoE (802.3af), Max. 11.9W	DC12V, PoE (802.3af), Max. 11.9W (-ZE) DC12V, PoE (802.3af), Max. 11.9W (-ZHE)	DC12V, PoE (802.3af), Max. 11.9W
Artificial Intelligence						
Face Detection	Supported	Supported	Supported	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					
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.					
People Counting	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	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map

# NETWORK CAMERAS



## WizMind 5 Series

### Box Camera

Model	IPC-HF5541E-E	IPC-HF5442E-E	IPC-HF5241E-E	IPC-HF5242E-E-MF
Appearance				
Image Sensor	1/2.7" 5MP CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/1.8" 2Mp CMOS
Lens	C/CS	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	0.002 Lux@F1.5
Day/Night	ICR	ICR	ICR	ICR
WDR	120dB	140dB	120dB	140dB
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	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Max. Resolution	5MP (2592×1944)	4MP (2688×1520)	1080P (1920×1080)	1080P (1920×1080)
Frame Rate	20fps@5Mp	25/30fps@4Mp	25/30fps@1080P	50/60fps@1080P
Multi-streaming	3 streams	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	ONVIF Profile S, G & T, CGI
Audio In/Out	1/1, Built-in MIC	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	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	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)	-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	DC12V/AC24V, PoE (802.3af), Max. 9.2W
<b>Artificial Intelligence</b>				
Face Detection	Supported	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	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; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection			
People Counting	Support Line crossing/Region/Queueing people counting; Support 4 accesses independent detection, 4 areas independent detection			
<b>General Intelligence</b>				
IVS	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map

## WizMind 5 Series

### Vari-focal Bullet

Model	IPC-HFW5541E-ZE	IPC-HFW5541E-ZSE	IPC-HFW5442E-ZE/ZHE	IPC-HFW5442E-Z4E
Appearance				
Image Sensor	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4Mp CMOS
Lens	2.7mm ~13.5mm motorized lens	7mm ~35mm motorized lens	2.7mm ~12mm motorized lens	8 mm~32 mm motorized lens
FOV-H	100°~28°(2592×1944) 104°~29°(2688×1520)	31°~9°(2592×1944) 32°~9°(2688×1520)	114°~47°	43°~15°
Min. Illumination	0.005 Lux@F1.5	0.003 Lux@F1.3	0.003 Lux@F1.8	0.002 Lux@F1.6
Day/Night	ICR	ICR	ICR	ICR
WDR	120dB	120dB	140dB	140dB
Max. IR Distance	50m (164ft)	120 m (394ft)	50m (164ft)	120 m (394ft)
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	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Max. Resolution	5MP (2592×1944)	5MP (2592×1944)	4MP (2688×1520)	4MP (2688×1520)
Frame Rate	20fps@5Mp	20fps@5Mp	25/30fps@4Mp	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	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
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) (-ZE) -40°C~+60°C (-40°F~+140°F) (-ZHE)	-30°C~+60°C (-22°F~+140°F)
Power	DC12V, PoE (802.3af), Max. 10.9W	DC12V, PoE (802.3af), Max. 10.9W	DC12V, PoE (802.3af), Max. 10.9W (-ZE) DC12V, PoE+ (802.3at), Max. 15.2W (-ZHE)	DC12V, PoE (802.3af), Max. 10.9W
<b>Artificial Intelligence</b>				
Face Detection	Supported	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	
Perimeter Protection	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection
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
<b>General Intelligence</b>				
IVS	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map

# NETWORK CAMERAS







## WizMind 5 Series

### Vari-focal Bullet

Model	IPC-HFW5241E-ZE/ZHE	IPC-HFW5241E-ZSE	IPC-HFW5241E-Z12E	IPC-HFW5242E-ZE-MF
Appearance				
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/1.8" 2Mp CMOS
Lens	2.7mm ~13.5mm motorized lens	7mm ~35mm motorized lens	5.3 mm~64.0 mm motorized lens	2.7 mm~12.0 mm motorized lens
FOV-H	109°~30°	33°~10°	58°~4°	114°~47°
Min. Illumination	0.002 Lux@F1.5	0.0015 Lux@F1.3	0.002 Lux@F1.5	0.003 Lux@F1.8
Day/Night	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	140dB
Max. IR Distance	50m (164ft)	120m (394ft)	150 m (492ft)	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	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Max. Resolution	1080P (1920×1080)	1080P(1920×1080)	1080P (1920×1080)	1080P (1920×1080)
Frame Rate	25/30fps@1080P	25/30fps@1080P	25/30fps@1080P	50/60 fps@1080P
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	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
Working Temperature	-30°C~+60°C(-22°F ~ +140°F) (-ZE) -40°C~+60°C(-40°F ~ +140°F)(-ZHE)	-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. 10.3W(-ZE) DC12V, PoE+(802.3at),Max. 14.6W(-ZHE)	DC12V, PoE (802.3af), Max. 10.3W	DC12V, PoE (802.3af), Max. 10.3W	DC12V, PoE (802.3af), Max. 10.9W
<b>Artificial Intelligence</b>				
Face Detection	Supported	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	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; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection
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
<b>General Intelligence</b>				
IVS	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map

## WizMind 5 Series

### Vari-focal Dome


Model	IPC-HDBW5541E-ZE	IPC-HDBW5541E-Z5E	IPC-HDBW5442E-ZE/ZHE	IPC-HDBW5442E-Z4E	IPC-HDBW5241E-ZE/ZHE	IPC-HDBW5241E-Z5E
Appearance						
Image Sensor	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4Mp CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	2.7mm ~13.5mm motorized lens	7mm ~35mm motorized lens	2.7mm ~12mm motorized lens	8mm ~32mm motorized lens	2.7mm ~13.5mm motorized lens	7mm ~35mm motorized lens
FOV-H	100°~28° (2592x1944) ; 104°~29° (2688x1520)	31°~9° (2592x1944) ; 32°~9° (2688x1520)	114°~47°	43°~15°	109°~30°	33°~10°
Min. Illumination	0.005 Lux@F1.5	0.003 Lux@F1.3	0.003 Lux@F1.8	0.002 Lux@F1.6	0.002 Lux@F1.5	0.0015 Lux@F1.3
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
WDR	120dB	120dB	140dB	140dB	120dB	120dB
Max. IR Distance	40m (131ft)	80m (262ft)	40m (131ft)	80m (262ft)	40m (131ft)	80m (262ft)
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	H.265/H.264/H.264B/H.264H
Smart Codec	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Max. Resolution	5MP (2592x1944)	5MP (2592x1944)	4MP (2688x1520)	4MP (2688x1520)	1080P (1920x1080)	1080P (1920x1080)
Frame Rate	20fps@5Mp	20fps@5Mp	25/30fps@4Mp	25/30 fps@4Mp	25/30fps@1080P	25/30fps@1080P
Multi-streaming	3 streams	3 streams	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°	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	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	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 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	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	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) (-ZE) -40°C~+60°C (-40°F ~ +140°F) (-ZHE)	-30°C~+60°C (-22°F ~ +140°F)	-30°C~+60°C(-22°F ~ +140°F) (-ZE) -40°C~+60°C(-40°F ~ +140°F) (-ZHE)	-30°C~+60°C (-22°F ~ +140°F)
Power	DC12V/AC24V, PoE (802.3af) Max. 12.4W	DC12V/AC24V, PoE (802.3af) Max. 12.4W	DC12V/AC24V, PoE (802.3af) Max. 12.4W (-ZE) DC12V/AC24V, PoE+ (802.3at) Max. 18.7W (-ZHE)	DC12V/AC24V, PoE (802.3af) Max. 12.4W	DC12V/AC24V, PoE (802.3af) Max. 11.8W (-ZE) DC12V/AC24V, PoE+ (802.3at) Max. 18W (-ZHE)	DC12V/AC24V, PoE (802.3af) Max. 11.8W
Artificial Intelligence						
Face Detection	Supported	Supported	Supported	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		
Perimeter Protection	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection			Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection		
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		
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	Object Abandoned/Missing Heat Map



# NETWORK CAMERAS

## WizMind 5 Series

### Vari-focal Dome

Model	IPC-HDBW5242E-ZE-MF	IPC-HDPW5541G-ZE	IPC-HDPW5442G-ZE	IPC-HDPW5241G-ZE	IPC-HDPW5242G-ZE-MF
Appearance					
Image Sensor	1/1.8" 2MP CMOS	1/2.7" 5MP CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/1.8" 2MP CMOS
Lens	2.7 mm~12.0mm motorized lrns	2.7mm~13.5mm motorized lens	2.7mm~12mm motorized lens	2.7mm~13.5mm motorized lens	2.7mm~12.0mm motorized lens
FOV-H	114°~47°	100°~28°(2592×1944) 104°~29°(2688×1520)	114°~47°	109°~30°	114°~47°
Min. Illumination	0.003Lux@F1.8	0.005 Lux@F1.5	0.003 Lux@F1.8	0.002 Lux@F1.5	0.003Lux@F1.8
Day/Night	ICR	ICR	ICR	ICR	ICR
WDR	140dB	120dB	140dB	120dB	140dB
Max. IR Distance	40m (131ft)	40m (131ft)	40m (131 ft)	40m (131ft)	40m (131ft)
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	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Max. Resolution	1080P (1920×1080)	5MP (2592×1944)	4MP (2688×1520)	1080P (1920×1080)	1080P (1920×1080)
Frame Rate	50/60fps@1080P	20fps@5MP	25/30fps@4MP	25/30fps@1080P	50/60 fps@1080P
Multi-streaming	3 streams	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°~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	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	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	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Ingress Protection	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/AC24V, PoE (802.3af), Max. 12.4W	DC12V, PoE (802.3af), Max. 11W	DC12V, PoE (802.3af), Max. 11W	DC12V, PoE (802.3af), Max. 10.6W	DC12V, PoE (802.3af), Max. 11W
<b>Artificial Intelligence</b>					
Face Detection	Supported	Supported	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				
Perimeter Protection	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection				
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
<b>General Intelligence</b>					
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

## WizMind 5 Series

### Vari-focal Eyeball

Model	IPC-HDW5541T-ZE	IPC-HDW5442T-ZE	IPC-HDW5241T-ZE	IPC-HDW5242T-ZE-MF
Appearance				
Image Sensor	1/2.7"5MP CMOS	1/1.8"4MP CMOS	1/2.8"2MP CMOS	1/1.8"2MP CMOS
Lens	2.7 mm-13.5 mm motorized lens	2.7 mm-12 mm motorized lens	2.7 mm-13.5 mm motorized lens	2.7 mm-12 mm motorized lens
FOV-H	100°~28° (2592×1944); 104°~29° (2688×1520)	114°~47°	109°~30°	114°~47°
Min. Illumination	0.005 Lux @F1.5	0.003 Lux @F1.8	0.002 Lux @F1.5	0.003 Lux @F1.8
Day/Night	ICR	ICR	ICR	ICR
WDR	120dB	140dB	120dB	140dB
Max. IR Distance	40m (131.2ft)	40m (131.2ft)	40m (131.2ft)	40m (131.2ft)
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	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Max. Resolution	5MP (2592×1944)	4MP (2688×1520)	1080P (1920×1080)	1080P (1920×1080)
Frame Rate	20fps@5MP	25/30fps@4MP	25/30 fps@1080P	50/60 fps@1080P
Multi-streaming	3 streams	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°	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	ONVIF Profile S, G & T, CGI
Audio In/Out	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
Alarm In/Out	--	--	--	--
Ingress Protection	IP67	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)
Power	DC12V, PoE (802.3af), Max. 7.7W	DC12V, PoE (802.3af), Max. 7.5W	DC12V, PoE (802.3af), Max. 6.9W	DC12V, PoE (802.3af), Max. 7.5W
<b>Artificial Intelligence</b>				
Face Detection	Supported	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			
Perimeter Protection	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection			
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
<b>General Intelligence</b>				
IVS	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map

# NETWORK CAMERAS

## WizMind 5 Series


	Fixed-focal Mini-Bullet			Fixed-focal Bullet		
Model	IPC-HFW5541E-SE	IPC-HFW5442E-SE	IPC-HFW5241E-SE	IPC-HFW5541T-SE	IPC-HFW5541T-ASE	IPC-HFW5442T-SE
Appearance						
Image Sensor	1/2.7" 5MP CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/1.8" 4MP 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)	2.8mm fixed lens (3.6mm, 6mm, 8mm, 12mm optional)	2.8mm fixed lens (3.6mm/6mm optional)
FOV-H	102°/84°/51°	113°/89°/56°	106°/87°/53°	102°/84°/51°/38°/25°	102°/84°/51°/38°/25°	113°/89°/56°
Min. Illumination	0.005 Lux@F1.6	0.002 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	140dB	120dB	120dB	120dB	140dB
Max. IR Distance	50m (164ft)	50m (164ft)	50m (164ft)	80m (262ft)	80m (262ft)	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	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H
Smart Codec	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Max. Resolution	5MP (2592x1944)	4MP (2688x1520)	1080P (1920x1080)	5MP (2592x1944)	5MP (2592x1944)	4MP (2688x1520)
Frame Rate	20fps@5Mp	25/30fps@4Mp	25/30fps@1080P	20fps@5Mp	20fps@5Mp	25/30fps@4Mp
Multi-streaming	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°~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	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	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	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	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. 8.4W	DC12V, PoE (802.3af), Max. 9.5W	DC12V, PoE (802.3af), Max. 8.4W
<b>Artificial Intelligence</b>						
Face Detection	Supported	Supported	Supported	Supported	Supported	Supported
Face Attributes	--	--	--	--	--	--
Perimeter Protection	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection					
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	
<b>General Intelligence</b>						
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	Object Abandoned/Missing Heat Map

## WizMind 5 Series






	Fixed-focal Bullet				Fixed-focal Dome	
Model	IPC-HFW5442T-ASE	IPC-HFW5241T-SE	IPC-HFW5241T-ASE	IPC-HFW5242T-ASE-MF	IPC-HDBW5541R-S	IPC-HDBW5541R-ASE
Appearance						
Image Sensor	1/1.8" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/1.8" 2MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS
Lens	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm, 6mm, 8mm, 12mm optional)	2.8mm fixed lens (3.6mm, 6mm, 8mm, 12mm optional)	2.8mm fixed lens (3.6mm, 6mm, 8mm optional)	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm/6mm optional)
FOV-H	113°/89°/56°	106°/87°/53°/41°/26°	106°/87°/53°/41°/26°	113°/89°/56°	102°/84°/51°	102°/84°/51°
Min. Illumination	0.002 Lux@F1.6	0.002 Lux@F1.6	0.002 Lux@F1.6	0.002 Lux@F1.6	0.005 Lux@F1.6	0.005 Lux@F1.6
Day/Night	ICR	ICR	ICR	ICR	ICR	ICR
WDR	140dB	120dB	120dB	140dB	120dB	120dB
Max. IR Distance	50m (164ft)	80m (262ft)	80m (262ft)	50m (164ft)	50m (164ft)	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	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H
Smart Codec	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Max. Resolution	4MP (2688x1520)	1080P (1920x1080)	1080P (1920x1080)	1080P (1920x1080)	5MP (2592x1944)	5MP (2592x1944)
Frame Rate	25/30fps@4Mp	25/30fps@1080P	25/30fps@1080P	50/60 fps@1080P	20fps@5Mp	20fps@5Mp
Multi-streaming	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°~360°; Tilt: 0°~90°; Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90°; Rotation: 0°~360°	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	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	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	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 ~ +141° F)
Power	DC12V, PoE (802.3af), Max. 9.5W	DC12V, PoE (802.3af), Max. 8.3W	DC12V, PoE (802.3af), Max. 8.7W	DC12V, PoE (802.3af), Max. 9.5W	DC12V, PoE (802.3af), Max. 5.2W	DC12V, PoE (802.3af), Max. 6W
<b>Artificial Intelligence</b>						
Face Detection	Supported	Supported	Supported	Supported	Supported	Supported
Face Attributes	--	--	--	--	--	--
Perimeter Protection	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection					
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	
<b>vGeneral Intelligence</b>						
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	Object Abandoned/Missing Heat Map

# NETWORK CAMERAS

## WizMind 5 Series

	Fixed-focal Dome				
Model	IPC-HDBW5442R-S	IPC-HDBW5442R-ASE	IPC-HDBW5241R-S	IPC-HDBW5241R-ASE	IPC-HDBW5242R-ASE-MF
Appearance	 DHOP Starlight+	 ePoE DHOP Starlight+	 DHOP Starlight+	 ePoE DHOP Starlight+	 ePoE DHOP Starlight+
Image Sensor	1/1.8" 4Mp CMOS	1/1.8" 4Mp CMOS	1/2.8" 2Mp STARVIS™ CMOS	1/2.8" 2Mp STARVIS™ CMOS	1/1.8" 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)
FOV-H	113°/89°/56°	113°/89°/56°	106°/87°/53°	106°/87°/53°	113°/89°/56°
Min. Illumination	0.002 Lux@F1.6	0.002 Lux@F1.6	0.002 Lux@F1.6	0.002 Lux@F1.6	0.002 Lux@F1.6
Day/Night	ICR	ICR	ICR	ICR	ICR
WDR	140dB	140dB	120dB	120dB	140 dB
Max. IR Distance	50 m (164 ft)	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	H.265/H.264/H.264B/H.264H
Smart Codec	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Max. Resolution	4MP (2688x1520)	4MP (2688x1520)	1080P (1920x1080)	1080P (1920x1080)	1080P (1920x1080)
Frame Rate	25/30fps@4Mp	25/30fps@4Mp	25/30fps@1080P	25/30fps@1080P	50/60fps@1080P
Multi-streaming	3 streams	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°	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	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	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	IP67, IK10	IP67, IK10
Working Temperature	-40° C~+60°C (-40°F~+142° F)	-40° C~+60°C (-40°F~+143° F)	-40° C~+60°C (-40°F~+144° F)	-40° C~+60°C (-40°F~+145° F)	-40° C~+60°C (-40°F~+140°F)
Power	DC12V, PoE (802.3af), Max. 5.8W	DC12V, PoE (802.3af), Max. 6.1W	DC12V, PoE (802.3af), Max. 5W	DC12V, PoE (802.3af), Max. 5.5W	DC12V, PoE (802.3af), Max. 6.1W
<b>Artificial Intelligence</b>					
Face Detection	Supported	Supported	Supported	Supported	Supported
Face Attributes	--	--	--	--	--
Perimeter Protection	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection				
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
<b>General Intelligence</b>					
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





## WizMind 5 Series

	Fixed-focal Eyeball			Active Deterrence	
Model	IPC-HDW5541TM-ASE	IPC-HDW5442TM-ASE	IPC-HDW5241TM-ASE	IPC-HDW5541H-AS-PV	IPC-HDW5241H-AS-PV
Appearance					
Image Sensor	1/2.7" 5MP CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.7" 5Mp 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 (3.6mm, 6mm optional)	2.8mm fixed lens (3.6mm, 6mm optional)
FOV-H	102°/84°/51°	113°/89°/56°	106°/87°/53°	102°/84°/51°	106°/87°/53°
Min. Illumination	0.005 Lux@F1.6	0.002 Lux@F1.6	0.002 Lux@F1.6	0.005 Lux@F1.6	0.002 Lux@F1.6
Day/Night	ICR	ICR	ICR	ICR	ICR
WDR	120dB	140dB	120dB	120dB	120dB
Max. IR Distance	50m (164ft)	50m (164ft)	50m (164ft)	50m (164ft)	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	H.265/H.264/H.264B/H.264H
Smart Codec	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Max. Resolution	5MP (2592x1944)	4MP (2688x1520)	1080P (1920x1080)	5MP (2592x1944)	1080P (1920x1080)
Frame Rate	20fps@5Mp	25/30fps@4Mp	25/30fps@1080P	20fps@5Mp	25/30fps@1080P
Multi-streaming	3 streams	3 streams	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°	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	ONVIF Profile S, G & T, CGI	ONVIF Profile S, G & T, CGI
Audio In/Out	Built-in MIC	Built-in MIC	Built-in MIC	1/1, Built-in MIC,Built-in Speaker	1/1, Built-in MIC,Built-in Speaker
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	--	--	--	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Ingress Protection	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+145°F)	-40°C~+60°C (-40°F~+146°F)	-40°C~+60°C (-40°F~+147°F)	-40°C~+60°C (-40°F~+147°F)	-40°C~+60°C (-40°F~+147°F)
Power	DC12V, PoE (802.3af), Max. 7.2W	DC12V, PoE (802.3af), Max. 7.2W	DC12V, PoE (802.3af), Max. 6.8W	DC12V, PoE (802.3af), Max. 7.2W	DC12V, PoE (802.3af), Max. 7W
<b>Artificial Intelligence</b>					
Face Detection	Supported	Supported	Supported	--	--
Face Attributes	--	--	--	--	--
Perimeter Protection	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection				
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
<b>General Intelligence</b>					
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

## WizMind 5 Series

### Active Deterrence

Model	IPC-HDW5541H-ASE-PV	IPC-HDW5241H-ASE-PV	IPC-HDBW5541R1-AS-PV	IPC-HDBW5241R1-AS-PV
Appearance	 <b>Starlight</b>	 <b>Starlight+</b>	 <b>Starlight</b>	 <b>Starlight+</b>
Image Sensor	1/2.7"5Mp CMOS	1/2.8"2Mp CMOS	1/2.7"5Mp CMOS	1/2.8"2Mp CMOS
Lens	2.8mm fixed lens (3.6 mm, 6 mm optional)	2.8mm fixed lens (3.6 mm, 6 mm optional)	2.8mm fixed lens (3.6 mm, 6 mm optional)	2.8mm fixed lens (3.6 mm, 6 mm optional)
FOV-H	98°/80°/50°	106°/88°/54°	98°/80°/50°	106°/88°/54°
Min. Illumination	0.005 Lux@F1.6	0.002 Lux@F1.6	0.005 Lux@F1.6	0.002 Lux@F1.6
Day/Night	ICR	ICR	ICR	ICR
WDR	120dB	120dB	120dB	120dB
Max. IR Distance	50 m (164ft)	50 m (164ft)	50 m (164ft)	50 m (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	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Max. Resolution	5MP (2592×1944)	2MP (1920×1080)	5MP (2592×1944)	2MP (1920×1080)
Frame Rate	20fps@5Mp	25/30fps@1080P	20fps@5Mp	25/30fps@1080P
Multi-streaming	3 streams	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°~355°; Tilt:0°~80°; Rotation:0°~355°	Pan:0°~355°; Tilt:0°~80°; 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, Built-in MIC,Built-in Speaker	1/1, Built-in MIC,Built-in Speaker	1/1, Built-in MIC,Built-in Speaker	1/1, Built-in MIC,Built-in Speaker
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	IP67	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)
Power	DC12V,PoE (802.3af), Max.8.7W	DC12V,PoE (802.3af), Max.8.5W	DC12V,PoE (802.3af), Max.8.6W	DC12V,PoE (802.3af), Max.9.3W
<b>Artificial Intelligence</b>				
Face Detection	Supported	Supported	Supported	Supported
Face Attributes	--	--	--	--
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.
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
<b>General Intelligence</b>				
IVS	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map

## WizMind 5 Series





	Active Deterrence		Full-color			
Model	IPC-HFW5541T-AS-PV	IPC-HFW5241T-AS-PV	IPC-HFW5442T-AS-LED	IPC-HFW5241T-AS-LED	IPC-HFW5442T-ASE-NI	IPC-HFW5241T-ASE-NI
Appearance	 Starlight	 Starlight+	 DHOP Full-color	 DHOP Full-color	 ePoE DHOP Full-color	 ePoE DHOP Full-color
Image Sensor	1/2.7" 5MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP CMOS
Lens	2.8mm fixed lens (3.6mm, 6mm, 8mm optional)	2.8mm fixed lens (3.6mm, 6mm, 8mm optional)	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm, 6mm, 8mm optional)	3.6mm fixed lens	3.6mm fixed lens
FOV-H	102°/84°/51°/38°	106°/87°/53°/41°	113°/89°/56°	106°/87°/53°/41°	93°	88°
Min. Illumination	0.005 Lux@F1.6	0.002 Lux@F1.6	0.002 Lux@F1.6	0.002 Lux@F1.6	0.001Lux@F1.0	0.001Lux@F1.0
Day/Night	ICR	ICR	Color/B/W	Color/B/W	Color/B/W	Color/B/W
WDR	120dB	120dB	140dB	120dB	140dB	120dB
Max. IR Distance	60m (197ft)	60m (197ft)	40m (132ft)	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	H.265/H.264/H.264B/H.264H	H.265/H.264/H.264B/H.264H
Smart Codec	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Max. Resolution	5MP (2592x1944)	1080P (1920x1080)	4MP (2688x1520)	1080P (1920x1080)	4MP (2688x1520)	1080P (1920x1080)
Frame Rate	20fps@5Mp	25/30fps@1080P	25/30fps@4Mp	25/30fps@1080P	25/30fps@4Mp	25/30fps@2Mp
Multi-streaming	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°~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	ONVIF Profile S, G&T, CGI
Audio In/Out	1/1,Built-in Speaker	1/1,Built-in Speaker	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	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	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC
Ingress Protection	IP67	IP67	IP67, IK10	IP67, IK10	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+147°F)	-40°C~+60°C (-40°F~+147°F)	-40°C~+60°C (-40°F~+147°F)	-40°C~+60°C (-40°F~+147°F)	-40°C ~ +60°C (-40°F ~ +147°F)	-40°C~+60°C (-40°F~+147°F)
Power	DC12V, PoE (802.3af), Max. 8.5W	DC12V, PoE (802.3af), Max. 8.3W	DC12V, PoE (802.3af), Max. 7.4W	DC12V, PoE (802.3af), Max. 7W	DC12V, PoE (802.3af), Max. 4.4W	DC12V, PoE (802.3af), Max. 3.8W
<b>Artificial Intelligence</b>						
Face Detection	--	--	Supported	Supported	Supported	Supported
Face Attributes	--	--	--	--	--	--
Perimeter Protection	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection		Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection		Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection	
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	
<b>General Intelligence</b>						
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	Object Abandoned/Missing Heat Map



# NETWORK CAMERAS

## WizMind 5 Series

Full-color

Model	IPC-HDBW5442R-ASE-NI	IPC-HDBW5241R-ASE-NI	IPC-HDW5442TM-AS-LED	IPC-HDW5241TM-AS-LED
Appearance				
Image Sensor	1/1.8" 4MP CMOS	1/2.8" 2MP CMOS	1/1.8" 4MP CMOS	1/2.8" 2Mp STARVIS™ CMOS
Lens	3.6mm fixed lens	3.6mm fixed lens	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm, 6mm optional)
FOV-H	93°	88°	113°/89°/56°	106°/87°/53°
Min. Illumination	0.001Lux@ F1.0	0.001Lux@ F1.0	0.002 Lux@F1.6	0.002 Lux@F1.6
Day/Night	Color/B/W	Color/B/W	Color/B/W	Color/B/W
WDR	140dB	120dB	140dB	120dB
Max. IR Distance	--	--	40m (132ft)	40m (132ft)
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	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Max. Resolution	4MP (2688×1520)	1080P (1920×1080)	4MP (2688×1520)	1080P (1920×1080)
Frame Rate	25/30fps@4Mp	25/30fps@2Mp	25/30fps@4Mp	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°~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	ONVIF Profile S, G & T, CGI
Audio In/Out	1/1	1/1	Built-in MIC	Built-in MIC
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	--	--
Ingress Protection	IP67, IK10	IP67, IK10	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+147°F)	-40°C~+60°C (-40°F~+147°F)	-40°C~+60°C (-40°F~+147°F)	-40°C~+60°C (-40°F~+147°F)
Power	DC12V, PoE (802.3af), Max. 4.4W	DC12V, PoE (802.3af), Max. 3.8W	DC12V, PoE (802.3af), Max. 7.2W	DC12V, PoE (802.3af), Max. 7.2W
<b>Artificial Intelligence</b>				
Face Detection	Supported	Supported	Supported	Supported
Face Attributes	--	--	--	--
Perimeter Protection	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection		Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection; people gathering; parking detection	
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	
<b>General Intelligence</b>				
IVS	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map	Object Abandoned/Missing Heat Map

# Panoramic Series Network Camera

When designing surveillance applications, wider monitoring coverage and larger zoom requirements have become necessary. Through multi-sensor automatic stitching technology, Dahua Panoramic surveillance realizes 360° no blind spot monitoring with high-speed PTZ that utilizes both panoramic and detailed images to ensure that customers will not miss other targets on the panoramic view while looking at the details of the target's behavior on the PTZ Camera.



## Wider Coverage

360° panoramic coverage replaces multiple cameras to save wiring and labor costs for customers.



## Crowd Density

Quick alarm linkage alerts monitoring personnel to disperse the crowd to prevent accidents caused by congestion.



## Smart Tracking

With 40x optical zoom, it can quickly auto-track moving targets, without missing target behavior details.







## AR Map

AR Label displays the video of corresponding camera, making monitoring more visual and convenient, and significantly improving command efficiency.

# NETWORK CAMERAS






## WizMind Panoramic Series

### Panoramic

Model	IPC-PSDW82442M-A270-D440		IPC-PSDW81642M-A360-D440		IPC-PSDW8842M-A180-D440		IPC-PSDW81642ML-A360-D237	
Appearance	 <b>Starlight+</b>		 <b>Starlight</b>		 <b>Starlight</b>		 <b>Starlight+</b>	
	Panoramic	PTZ	Panoramic	PTZ	Panoramic	PTZ	Panoramic	PTZ
Image Sensor	Eight 1/1.8" 2MP CMOS	1/1.8" 4MP CMOS	Eight 1/1.8" 2MP CMOS	1/1.8" 4MP CMOS	Four 1/1.8" 2MP CMOS	1/1.8" 4MP CMOS	Eight 1/1.8" 2MP CMOS	1/1.8" 2MP CMOS
Lens	2.8mm/F1.6	5.6~223mm/F1.3	5.0mm/F2.0	5.6~223mm/F1.3	5.0mm/F2.0	5.6~223mm/F1.3	2.8mm/F1.6	5.6~208mm/F1.4
FOV-H	270°	2°~61°	360°	2°~61°	180°	2°~61°	360°	2°~60°
Min. Illumination	Color: 0.001Lux@F2.0; B/W: 0.0001Lux@F2.0	Color: 0.001Lux@F1.3; B/W: 0.0001Lux@F1.3; 0Lux@F1.3(IR on)	Color: 0.005Lux@F2.0; B/W: 0.0005Lux@F2.0	Color: 0.001Lux@F1.3; B/W: 0.0001Lux@F1.3; 0Lux@F1.3(IR on)	Color: 0.005Lux@F2.0; B/W: 0.0005Lux@F2.0	Color: 0.001Lux@F1.3; B/W: 0.0001Lux@F1.3; 0Lux@F1.3(IR on)	Color: 0.001Lux@F2.0; B/W: 0.0001Lux@F2.0	Color: 0.001Lux@F1.3; B/W: 0.0001Lux@F1.3; 0Lux@F1.3(IR on)
Max. IR Distance	--	400m(1312ft)	--	400m(1312ft)	--	400m(1312ft)	--	220m(722ft)
Day/Night	ICR		ICR		ICR		ICR	
WDR	120dB		120dB		120dB		120dB	
Video Compression	H.265/H.264/H.264B/H.264H/MJPEG		H.265/H.264/H.264B/H.264H/MJPEG		H.265/H.264/H.264B/H.264H/MJPEG		H.265/H.264/H.264B/H.264H/MJPEG	
Smart Codec	Smart H.265+/H.264+		Smart H.265+/H.264+		Smart H.265+/H.264+		Smart H.265+/H.264+	
Resolution	(8192x2700)	4MP(2560x1440)	(8192x1800)	4MP(2560x1440)	(4096x1800)	4MP(2560x1440)	(8192x1800)	4MP(2560x1440)
Frame Rate	30fps@ (8192x2700)	30fps@ (2560x1440)	30fps@ (8192x1800)	30fps@ (2560x1440)	30fps@ (4096x1800)	30fps@ (2560x1440)	30fps@ (8192x1800)	30fps@ (1920x1080)
Multi-streaming	3 streams		3 streams		3 streams		3 streams	
Pan/Tilt/Rotation	--	Pan: 0°~360°; Tilt: -12°~90° Auto flip 180°	--	Pan: 0°~360°; Tilt: -12°~90° Auto flip 180°	--	Pan: 0°~360°; Tilt: -12°~90° Auto flip 180°	--	Pan: 0°~360°; Tilt: -12°~90° Auto flip 180°
Intelligent Video	Tripwire, Intrusion, Scene Change, Crowd Map, Vehicle Density		Tripwire, Intrusion, Scene Change, Crowd Map		Tripwire, Intrusion, Scene Change, Crowd Map		Tripwire, Intrusion, Scene Change	
Dewarping Mode	--		--		--		--	
Compatibility	ONVIF (Profile S/Profile G/Profile T); CGI		ONVIF (Profile G/T/S); GB/T28181; CGI		ONVIF (Profile G/T/S); GB/T28181; CGI		ONVIF (Profile S/Profile G); CGI; Milestone; Genetec	
Audio In/Out	2/2		2/2		2/2		2/2	
Memory Slot	Micro SD, Max. 512GB		Micro SD, Max. 512GB		Micro SD, Max. 512GB		Micro SD, Max. 512GB	
Alarm In/Out	7/3		7/3		7/3		7/3	
Ingress Protection	IP66		IP66		IP66		IP66	
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)	
Power	DC36V, Max77.3W		DC36V, Max84.4W		DC36V, Max. 77.7W		DC36V, Max. 74.6W	

## WizMind Panoramic Series






### Panoramic

Model	IPC-PSDW8842ML-A180-D237		IPC-PSDW5231S-B120		IPC-PSDW5631S-B360	
Appearance	  					
	Panoramic	PTZ	Panoramic	PTZ	Panoramic	PTZ
Image Sensor	Four 1/1.8" 2MP CMOS	1/1.8" 2MP CMOS	1/2.7" 2MP CMOS	1/2.7" 2MP CMOS	Three 1/2.7" 2MP CMOS	1/2.7" 2MP CMOS
Lens	2.8mm/F1.6	5.6~208mm/F1.4	2.0mm/F2.2	2.7mm~13.5mm/F1.8	2.0mm/F2.2	2.7mm~13.5mm/F1.8
FOV-H	180°	2°~60°	136°	105.9°~33.3°	136°	105.9°~33.3°
Min. Illumination	Color: 0.001Lux@F2.0; B/W: 0.0001Lux@F2.0	Color: 0.001Lux@F1.3; B/W: 0.0001Lux@F1.3; 0Lux@F1.3(IR on)	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	--	220m (722ft)	15m (49ft)		15m (49ft)	
Day/Night	ICR		ICR		ICR	
WDR	120dB		120dB		120dB	
Video Compression	H.265/H.264/H.264B/H.264H/MJPEG		H.265/H.264/H.264B/H.264H/MJPEG		H.265/H.264/H.264B/H.264H/MJPEG	
Smart Codec	Smart H.265+/H.264+		Smart H.265+/H.264+		Smart H.265+/H.264+	
Resolution	(4096×1800)	4MP (2560×1440)	1080P (1920×1080)	1080P (1920×1080)	3× (1920×1080)	1080P (1920×1080)
Frame Rate	30fps@ (4096×1800)	30fps@ (1920×1080)	25fps@ (4096×1800)	25fps@ (4096×1800)	25fps@ (4096×1800)	25fps@ (4096×1800)
Multi-streaming	3 streams		3 streams		3 streams	
Pan/Tilt/Rotation	--	Pan: 0°~360°; Tilt:-12°~90° Auto flip 180°	--	Pan: 0° ~ 355°; endless Tilt: 0° ~ 80°	--	Pan: 0° ~ 355°; endless Tilt: 0° ~ 80°
Intelligent Video	Tripwire, Intrusion, Scene Change		Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion
Dewarping Mode	--		--		--	
Compatibility	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec		ONVIF Profile T, CGI		ONVIF Profile T, CGI	
Audio In/Out	2/2		1/1		1/1	
Memory Slot	Micro SD, Max. 512GB		Micro SD, Max. 256GB		Micro SD, Max. 256GB	
Alarm In/Out	7/3		3/2		3/2	
Ingress Protection	IP66		--		--	
Working Temperature	-40°C~+70°C (-40°F~+158°F)		-10° C ~ +50° C (14° F ~ +122° F)		-10° C ~ +50° C (14° F ~ +122° F)	
Power	DC36V, Max. 67.9W		DC12V, Max. 12.7W		DC12V, Max. 16.1W	






# NETWORK CAMERAS

## WizMind Panoramic Series

### Panoramic

Model	IPC-PFW83242-A180	IPC-PFW8840-A180	IPC-PDBW8840-A180	IPC-PDBW82041-B360	IPC-PDBW5831-B360
Appearance	 <b>8K Starlight</b>	 <b>4K Starlight+</b>	 <b>4K Starlight+</b>	 <b>Starlight</b>	 <b>Starlight</b>
Image Sensor	Four 1/1.8" 8MP CMOS	Four 1/2.8" 2MP CMOS	Four 1/2.8" 2MP CMOS	Four 1/2.7" 5MP CMOS	Four 1/2.8" 2MP STARVIS™ CMOS
Lens	2.8mm/F1.6	2.8mm/F1.6	2.8mm/F1.6	2.8~12mm/F1.7	2.7~12mm/F1.8
FOV-H	180°	180°	180°	4x(100°~36°)	4x(105°~44°)
Min. Illumination	0.005Lux	0.002 Lux	0.002 Lux	0.005 Lux @F1.7	0.005Lux/F1.8 (Color,1/3s,30IRE) 0.06Lux/1.8 (Color,1/30s,30IRE) 0Lux/F1.8 (IR on)
Max. IR Distance	30m (98ft)	30m (98ft)	30m(98ft)	30m(98ft)	30m (98ft)
Day/Night	ICR	ICR	ICR	ICR	ICR
WDR	DWDR	DWDR	DWDR	120dB (4 channel)	120dB (1 channel)
Video Compression	H.265/H.264/H.264B/H.264H/MJPEG	H.265/H.264/H.264B/H.264H/MJPEG	H.265/H.264/H.264B/H.264H/MJPEG	H.265/H.264/H.264B/H.264H/MJPEG	H.265/H.264/H.264B/H.264H/MJPEG
Smart Codec	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Resolution	(8192x3840)	(4096x1800)	(4096x1800)	4x5MP(2592x1944)	4x1080P (1920x1080)
Frame Rate	30fps@ (8192x3840)	30fps@ (4096x1800)	30fps@ (4096x1800)	30fps@ (2592x1944)	30fps@1080P (1920x1080)
Multi-streaming	3 streams	3 streams	3 streams	4x3 streams	4x2 streams
Pan/Tilt/Rotation	Tilt:0°~90°; Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0° ~75° Rotation: -20° ~20°	Pan: 0°~355°; Tilt: 0° ~ 90° Rotation: 0° ~ 360°	Pan: 0°~360°; Tilt: 0°~80° Rotation: 0°~355°	Pan: 0°~360°; Tilt: 0°~80° Rotation: 0°~355°
Intelligent Video	Crowd Distribution Map,Vehicle Situation,Tripwire,Intrusion	Crowd Distribution Map,Vehicle Situation,Tripwire,Intrusion	Crowd Distribution Map,Vehicle Situation,Tripwire,Intrusion	Tripwire; intrusion; fast moving; loitering detection; people gathering; parking detection; Face Detection	Tripwire, Intrusion, Scene Change Abandoned/Missing
Dewarping Mode	--	--	--	--	--
Compatibility	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; RTMP	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec	ONVIF(Profile S/Profile G/Profile T); CGI; Milestone; Genetec; RTMP; P2P	ONVIF profile S & G, API
Audio In/Out	2/1	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. 128GB
Alarm In/Out	2/2	2/2	2/2	3/2	1/1
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)	-30°C~+60°C (-22°F ~ +140°F)	30°C~+60°C (-40°F ~ +140°F)
Power	DC12V, Max. 24.3W	12V DC/24V AC/PoE (802.3at), Max. 16.2W	12V DC/24V AC/PoE (802.3at), Max. 14.9W	12V DC/POE( 802.3at ) Max. 22.2W	AC24V PoE+ (802.3at) (Class 4) Max. 25.5W

## WizMind Panoramic Series

Model	IPC-EBW81242	IPC-EBW8630	IPC-EBW8630-IVC	IPC-EB5541-AS	IPC-EW5541-AS
Appearance	 4K Starlight+	 Starlight+	 Starlight 8400V	 WizMind	 WizMind
Image Sensor	1/1.7" 12MP CMOS	1/1.8" 6MP STARVIS™ CMOS	1/1.8" 6MP STARVIS™ CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS
Lens	1.85mm/F2.0	1.7mm/F2.0	1.3mm/F2.8	1.4 mm/F2.0	1.4 mm/F2.0
FOV-H	185°	180°	180°	180°	180°
Min. Illumination	0.001Lux/F2.0 (Color,1/3s,30IRE) 0.01Lux/F2.0 (Color,1/30s,30IRE) 0Lux/F2.0 (IR on)	0.002Lux/F2.0 (Color,1/3s,30IRE) 0.02Lux/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)	0.006 Lux @F2.0	0.006 Lux @F2.0
Max. IR Distance	10m (33ft)	10m (33ft)	10m (33ft)	--	10m(32.8ft)
Day/Night	ICR	ICR	ICR	Electronic	ICR
WDR	DWDR	DWDR	DWDR	120 dB	120 dB
Video Compression	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	H.265/H.264/H.264B/ H.264H/MJPEG	H.265/H.264/H.264B/ H.264H/MJPEG
Smart Codec	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+
Resolution	12M (4000×3000)	6MP (3072×2048)	6MP (3072×2048)	5M (2592×1944)	5M (2592×1944)
Frame Rate	30fps@12MP (4000×3000)	30fps@6MP	30fps@6MP	30fps@5M(2592×1944)	30fps@5M(2592×1944)
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	--	--	--	--	--
Intelligent Video	Tripwire, Intrusion, Heat map, People Counting, Queue Management	Tripwire, Intrusion Heat map	Tripwire, Intrusion Heat map	Tripwire, Intrusion Heat map, People Counting	Tripwire, Intrusion Heat map, People Counting
Dewarping Mode	10;2P;1R;1P+3R;2R 10+2R;10+3R;4R;10+4R 1P+6R;10+8R	10; 1P+3R; 2R 10+2R; 10+3R; 4R 10+4R; 1P+6R; 10+8R	10; 1P+3R; 2R 10+2R; 10+3R; 4R 10+4R; 1P+6R; 10+8R	10;1P+3R;2R 10+2R;10+3R;4R 10+4R;1P+6R;10+8R	10;1P+3R;2R 10+2R;10+3R;4R 10+4R;1P+6R;10+8R
Compatibility	ONVIF profile S & G,API	ONVIF profile S & G, API	ONVIF profile S & G, API	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
Audio In/Out	1/1,Built-in Mic	1/1, Built-in Mic	1/1, Built-in Mic	1/1	1/1,Built-in Mic
Memory Slot	Micro SD,Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD,Max. 256GB	Micro SD,Max. 256GB
Alarm In/Out	2/2	2/2	2/2	1/1	1/1
Ingress Protection	IP67,IK10	IP67, IK10	IP67, IK10	IP67,IK10	--
Working Temperature	-30°C~+45°C (-22°F~+113°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+55°C (-22°F ~ +131°F)	-10° C ~ +50° C (14° F ~ +122° F)
Power	DC12V PoE (802.3af) (Class 4) Max. 12.9W	DC12V PoE (802.3af) (Class 0) Max. 12W	DC12V PoE (802.3af) (Class 0) Max. 12W	12V DC PoE Max.6W	12V DC PoE Max.8.8W

# Special Series Network Camera

This special product series offers a wide-range of cameras, such as pinhole camera, corner camera, anti-oil camera and mobile camera. It provides suitable products for special industries. Pinhole Series camera is applicable in hidden or small scenes such as ATM and advertising screens. Corner Series camera supports perimeter protection, people counting and IK10+50J protection, which is ideal for sensitive scenarios like banks. Anti-oil camera is widely applied in kitchens, oil plants and other heavy oil-related scenes. Mobile camera is suitable for transportation including buses and railways.



## Pinhole Camera

- Easy Installation
- Optimized Image
- Highly Flexible and Covert
- Face Detection
- 120dB WDR



## Corner Camera

- IK10+50J Protection
- No IR Exposure
- Super Wide Angle
- People Counting
- Queue Management
- Perimeter Protection



## Anti-oil Camera

- Starlight
- 120dB WDR
- Perimeter Protection
- SMD
- Smart H265+/H264+



## Mobile Camera

- People Counting
- Face Detection
- ANPN
- 120dB WDR
- IP67 & IK10

## Special Series







### Pinhole Camera

Model	IPC-HUM8431-E1	IPC-HUM8431-L1	IPC-HUM8431-L3	IPC-HUM8431-L4	IPC-HUM8431-L5	IPC-HUM8231-E2	IPC-HUM8231-E1
Appearance		 <span>Starlight</span>	 <span>Starlight</span>	 <span>Starlight</span>	 <span>Starlight</span>		
Image Sensor	--	1/2.7" 4MP CMOS	1/2.7" 4MP CMOS	1/2.7" 4MP CMOS	1/2.7" 4MP CMOS	--	--
Lens	--	2.8mm/F2.4	2.8mm/F1.8	2.8mm/F2.4	2.8mm/F2.2	--	--
FOV-H	--	H:83.4°	H:109°	H:83°	H:104°	--	--
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)	0.006Lux/F1.8 (Color,1/3s,30IRE) 0.04Lux/F1.8 (Color,1/30s,30IRE) 0.003Lux/F1.8 (B/W,1/3s,30IRE) 0.02Lux/F1.8 (B/W,1/30s,30IRE)	0.007Lux/F2.4 (Color,1/3s,30IRE) 0.08Lux/F2.4 (Color,1/30s,30IRE) 0.004Lux/F2.4 (B/W,1/3s,30IRE) 0.04Lux/F2.4 (B/W,1/30s,30IRE)	0.005Lux/F2.2 (Color,1/3s,30IRE) 0.05Lux/F2.4 (Color,1/30s,30IRE) 0.003Lux/F2.4 (B/W,1/3s,30IRE) 0.03Lux/F2.4 (B/W,1/30s,30IRE)	--	--
Day/Night	Electronic	--	--	--	--	Electronic	Electronic
WDR	120dB	--	--	--	--	120dB	120dB
Max. IR Distance	--	--	--	--	--	--	--
Video Compression	H.265+/H.265 H.264+/H.264	--	--	--	--	H.265/H.264	H.265+/H.265 H.264+/H.264
Smart Codec	Smart H265+/H264+	--	--	--	--	Smart H265+/H264+	Smart H265+/H264+
Max. Resolution	4MP (2688×1520)	--	--	--	--	1080P (1920×1080)	1080P (1920×1080)
Frame Rate	30fps@4MP	--	--	--	--	2×30fps@1080P	60fps@1080P
Multi-streaming	3 streams	--	--	--	--	2×2 streams	3 streams
Pan/Tilt/Rotation	--	--	--	--	--	--	--
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
Compatibility	ONVIF profile S & G, API	--	--	--	--	ONVIF profile S & G, API	ONVIF profile S & G, API
Audio In/Out	1/1	--	--	--	--	1/1	1/1
Memory Slot	Micro SD, Max. 128GB	--	--	--	--	Micro SD, Max. 128GB	Micro SD, Max. 128GB
Alarm In/Out	2/2	--	--	--	--	2/2	2/2
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, PoE (802.3af) (Class 0),Max. 6W	--	--	--	--	DC12V, PoE (802.3af) (Class 0), Max.7W	DC12V, PoE (802.3af) (Class 0), Max. 6W








# NETWORK CAMERAS

## Special Series

	Pinhole Camera				Anti-oil Camera	
Model	IPC-HUM8231-L1	IPC-HUM8231-L3	IPC-HUM8231-L4	IPC-HUM8231-L5	IPC-HUM4231-S2	IPC-HFW3441M-AS-SFC-I2
Appearance						
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	1/3" 4Mp CMOS
Lens	2.8mm/F2.4	2.8mm/F1.8	2.8mm/F2.4	2.8mm/F2.1	2.8mm/F2.0	3.6mm fixed lens (6mm/8mm optional)
FOV-H	H:104°	H:112°	H:103°	H:111°	H:108°	84°(3.6mm); 52°(6mm) 40°(8mm)
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)	0.02Lux/F1.8 (Color,1/3s,30IRE) 0.1Lux/F1.8 (Color,1/30s,30IRE) 0.01Lux/F1.8 (B/W,1/3s,30IRE) 0.05Lux/F1.8 (B/W,1/30s,30IRE)	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)	0.02Lux/F2.1 (Color,1/3s,30IRE) 0.1Lux/F2.1 (Color,1/30s,30IRE) 0.01Lux/F2.1 (B/W,1/3s,30IRE) 0.05Lux/F2.1 (B/W,1/30s,30IRE)	0.005 Lux@F2.0	0.005 Lux@F1.6
Day/Night	--	--	--	--	Electronic	ICR
WDR	--	--	--	--	120dB	120dB
Max. IR Distance	--	--	--	--	--	50m (164.0ft)
Video Compression	--	--	--	--	H.265/H.264/H.264B/H.264H/MJPEG	H.265; H.264; H.264H; H.264B; MJPEG support smart codec
Smart Codec	Smart H265+/H264+	Smart H265+/H264+	Smart H265+/H264+	Smart H265+/H264+	Smart H265+/H264+	Smart H265+/H264+
Max. Resolution	--	--	--	--	1080P (1920×1080)	4M (2688×1520)
Frame Rate	--	--	--	--	30fps@1080P	25/30 fps@4MP
Multi-streaming	--	--	--	--	2 streams	3 streams
Pan/Tilt/Rotation	--	--	--	--	--	--
Intelligent Video	--	--	--	--	Tripwire, Intrusion Scene Change Abandoned/Missing	Perimeter Protection SMD
Compatibility	--	--	--	--	ONVIF (Profile S); CGI; Milestone; Genetec; Dahua Cloud	ONVIF profile S&G,CGI, P2P,Milestone,Genetec
Audio In/Out	--	--	--	--	1/1	1/1
Memory Slot	--	--	--	--	--	Micro SD, Max. 256GB
Alarm In/Out	--	--	--	--	--	2 channel In: 5mA 5VDC 2 channel Out: 300mA 12VDC
Ingress Protection	--	--	--	--	--	IP67
Working Temperature	--	--	--	--	-40°C ~ +60°C (-40°F ~ +140°F)	-40°C~+60°C (-40°F ~ +140°F)
Power	--	--	--	--	DC12V, Max. 1.4W	12V DC/POE, Max.11.6W

## Special Series






### Mobile Camera

Model	IPC-HDBW5241F-M/M12-SA	IPC-HDBW3241F-FD-M/M12	IPC-HDBW4431F-M/M12	IPC-HDBW4231F-M/M12	IPC-HDBW3231F-M/M12
Appearance	 <span>DHCP</span> <span>Starlight+</span>	 <span>Starlight+</span>		 <span>Starlight</span>	 <span>Starlight+</span>
Image Sensor	1/2.8 2MP progressive scan CMOS	1/2.8 2MP progressive scan CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP progressive scan CMOS
Lens	2.8mm (3.6mm;6mm;8mm)	2.8mm (3.6mm;6mm; 8mm;12mm)	2.8mm/F2.0,3.6mm/F2.0, 6mm/F2.0 optional	2.8mm/F2.0,3.6mm/F2.0, 6mm/F2.0 optional	2.8mm (3.6mm, 6mm optional)
FOV-H	2.8 mm: Horizontal 106° × Vertical 56° × Diagonal 126° 3.6 mm: Horizontal 87° × Vertical 46° × Diagonal 104° 6 mm: Horizontal 54° × Vertical 29° × Diagonal 63° 8 mm: Horizontal 40° × Vertical 22° × Diagonal 47°	H: 110° (89.5°)(52.8°)(39.7°)(25.7°) V: 60° (50°)( 30°)(22°)(14.4°)	104°/87°/55°	110°/87°/51°H:111°	H: 110° (89.5°, 52.8°) , V: 58° (50°, 30°)
Min. Illumination	0.002 Lux @ F1.6	0.003Lux/F2.0 ( Color,1/3s,30IRE) 0.02Lux/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)	0.009Lux/F2.0 (Color,1/3s,30IRE) 0.07Lux/F2.0 (Color,1/30s,30IRE) 0Lux/F2.0 (IR on)	0.001Lux/F2.1 (Color,1/3s,30IRE) 0.03Lux/F2.1 ( Color,1/30s,30IRE) 0Lux/F2.1 (IR on)
Day/Night	Auto (ICR)/Color/B/W	Auto (ICR) / Color / B/W	ICR	ICR	Auto(ICR) / Color / B/W
WDR	120 dB	120dB	120dB	120dB	120dB
Max. IR Distance	30 m	Distance up to 50m (164ft)	20m	20m	up to 23m(75.5ft)
Video Compression	H.265/H.264H/H.264/H.264B/MJPEG (Sub Stream)	H.265/H.264H/H.264/H.264B/MJPEG (Sub Stream)	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265/H.264H/MJPEG (Sub Stream)
Smart Codec	1080P(1920×1080)	1080P(1920×1080)	4M (2688×1520)	1080P (1920×1080)	1920 (H)×1080 (V)
Max. Resolution	Smart H265+/H264+	Smart H265+/H264+	Smart H265+/H264+	Smart H265+/H264+	Smart H265+/H264+
Frame Rate	Main Stream: 1080P (1~25/30fps) Sub Stream: D1 (1 ~ 25/30fps) Sub Stream 2: 1080P (1~25/30fps)	Main Stream: 1080P (1~25/30fps) Sub Stream: D1 (1 ~ 25/30fps) Sub Stream 2: 1080P (1~25/30fps)	30fps@4M	60fps@1080P	Main Stream: 1080P (1~25/30fps) Sub Stream: D1 (1 ~ 25/30fps)
Multi-streaming	3 Streams	3 Streams	3 Streams	3 Streams	2 Streams
Pan/Tilt/Rotation	Pan:-30°~30°; Tilt:0°~80°; Rotation:0°~360°	Pan:-30°~30°; Tilt:0°~80°; Rotation:0°~360°	Pan: 0°~60°; Tilt:0°~80°; Rotation: 0°~360°"	Pan: 0°~60°; Tilt: 0°~80°;Rotation: 0°~360°	Pan:-30°~30°; Tilt:0°~80°; Rotation:0°~360°
Intelligent Video	Tripwire; intrusion;Face Detection; People Counting	Support face image capture Support 4 kinds of face attributes extraction: Age, Gender, Expression(Jolly, Calm, Surprise, Sad, Rage),Glasses	Tripwire, Intrusion, Scene Change, Abandoned/Missing, Face Detection	Tripwire, Intrusion, Scene Change, Abandoned/Missing, Face Detection	Tripwire, Intrusion, Object Abandoned/Missing
Compatibility	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P	ONVIF; CGI; Milstone; Genetec	ONVIF(2.4), PSIA, CGI	ONVIF(2.4), PSIA, CGI	ONVIF Profile S & G, API
Audio In/Out	Built-in MIC	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic
Memory Slot	Micro SD Card (support max. 256 G)	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Micro SD, Max. 128GB	Mirco SD card 128GB
Alarm In/Out	--	N/A	--	--	N/A
Ingress Protection	IP67; IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-40° C ~ +60° C (-40° F ~ +140° F) / Less than 95% RH	-40° C ~ +60° C (-40° F ~ +140° F) / Less than 95% RH	-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 (IEEE 802.3af)	DC12V, PoE (IEEE 802.3af) (Class 0)	DC12V, PoE (802.3af), Max. 5W	DC12V, PoE (802.3af), Max. 5W	DC12V, PoE (IEEE 802.3af) (Class 0); DC 12V: 2.6W 3.7W (IR on) PoE: 3.5W 5W (IR on)

# NETWORK CAMERAS

## Special Series






### Mobile Camera

Model	IPC-HDBW3541F-AS-M	IPC-HDBW3441F-AS-M	IPC-HDBW3241F-AS-M	IPC-MBW4431-AS/M12	IPC-MBW4231-AS/M12
Appearance	 Starlight	 Starlight	 Starlight+		 Starlight
Image Sensor	1/2.7" 5Megapixel progressive CMOS	1/2.7" 4Megapixel progressive CMOS	1/2.8" 2Megapixel progressive CMOS	1/3" 4MP Exmor CMOS	1/2.8" 2MP CMOS
Lens	2.8 mm; 3.6 mm; 6 mm	2.8 mm; 3.6 mm; 6 mm	2.8 mm; 3.6 mm; 6 mm	2.8mm/F2.0, 3.6mm/F2.0, 6mm/F2.0 optional	2.8mm/F2.0, 3.6mm/F2.0, 6mm/F2.0 optional
FOV-H	2.8 mm: Horizontal: 98°; vertical: 72°; diagonal: 130° 3.6 mm: Horizontal: 80°; vertical: 59°; diagonal: 106° 6 mm: Horizontal: 50°; vertical: 36°; diagonal: 64°	2.8 mm: Horizontal: 103°; vertical: 55°; diagonal: 122° 3.6 mm: Horizontal: 84°; vertical: 45°; diagonal: 100° 6 mm: Horizontal: 52°; vertical: 28°; diagonal: 61°	2.8 mm: Horizontal: 106°; vertical: 57°; diagonal: 126° 3.6 mm: Horizontal: 87°; vertical: 46°; diagonal: 104° 6 mm: Horizontal: 54°; vertical: 29°; diagonal: 63°	104°/87°/55°	110°/87°/51°
Min. Illumination	0.005 Lux@F1.6	0.005 Lux@F1.6	0.002 Lux@F1.6	0.08Lux/F2.0 (Color, 1/3s, 30IRE) 0.3Lux/F2.0 (Color, 1/30s, 30IRE) 0Lux/F2.0 (IR on)	0.009Lux/F2.0 (Color, 1/3s, 30IRE) 0.07Lux/F2.0 (Color, 1/30s, 30IRE) 0Lux/F2.0 (IR on)
Day/Night	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	ICR	ICR
WDR	120 dB	120 dB	120 dB	120dB	120dB
Max. IR Distance	50m (164.0ft)	50m (164.0ft)	50m (164.0ft)	30m	30m
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.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Smart Codec	5M (2592x1944); 4M (2688x1520); 3M (2304x1296); 1080p (1920x1080); 1.3M (1280x960); 720p (1280x720); D1 (704x576/704x480); VGA (640x480); CIF (352x288/352x240)	4M (2688x1520); 3M (2304x1296); 1080p (1920x1080); 1.3M (1280x960); 720p (1280x720); D1 (704x576/704x480); VGA (640x480); CIF (352x288/352x240)	1080p (1920x1080); 1.3M (1280x960); 720p (1280x720); D1 (704x576/704x480); VGA (640x480); CIF (352x288/352x240)	4M (2688x1520)	1080P (1920x1080)
Max. Resolution	Smart H265+/H264+	Smart H265+/H264+	Smart H265+/H264+	Smart H265+/H264+	Smart H265+/H264+
Frame Rate	Main stream (2592x1944@1-20 fps) (2688x1520@1-25/30 fps) sub stream (704x576@1-25/30 fps) third stream (1280x720@1-25/30 fps)	Main stream (2688x1520@1-25/30 fps) sub stream (704x576@1-25/30 fps) third stream (1280x720@1-25/30 fps)	Main stream (1920x1080@1-25/30 fps) sub stream (704x576@1-25/30 fps) third stream (1280x720@1-25/30 fps)	30fps@4M	60fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 Streams	3 Streams
Pan/Tilt/Rotation	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°	Pan: 0°~20°; Tilt: -15°~15° Rotation: 0°~360°	Pan: 0°~20°; Tilt: -15°~15° Rotation: 0°~360°
Intelligent Video	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire; intrusion (Recognition of human and vehicle)	Tripwire; intrusion, Scene Change, Abandoned/Missing, Face Detection	Tripwire; intrusion, Scene Change, Abandoned/Missing, Face Detection
Compatibility	ONVIF (Profile S/Profile G); CGI; P2P; Milestone; Genetec	ONVIF (Profile S/Profile G); CGI; P2P; Milestone; Genetec	ONVIF (Profile S/Profile G); CGI; P2P; Milestone; Genetec	ONVIF (2.4), PSIA, CGI	ONVIF (2.4), PSIA, CGI
Audio In/Out	Built-in MIC	Built-in MIC	Built-in MIC	1/1 channel In/Out (-AS)	1/1 channel In/Out (-AS)
Memory Slot	Micro SD Card (support max. 256 G)	Micro SD Card (support max. 256 G)	Micro SD Card (support max. 256 G)	Micro SD, Max. 128GB	Micro SD, Max. 128GB
Alarm In/Out	--	--	--	1/1 channel In/Out (-AS)	1/1 channel In/Out (-AS)
Ingress Protection	IP67; IK10	IP67; IK10	IP67; IK10	IP67, IP6K9K, IK10	IP67, IP6K9K, IK10
Working Temperature	-40°C to +60°C (-40°F to +140°F)/ less than 95%	-40°C to +60°C (-40°F to +140°F)/ less than 95%	-40°C to +60°C (-40°F to +140°F)/ less than 95%	-40°C~+70°C (-40°F~+158°F)	-40°C~+70°C (-40°F~+158°F)
Power	12V DC/PoE (802.3af), <5.7W	12V DC/PoE (802.3af), <5.7W	12V DC/PoE (802.3af), <5.7W	DC12V(-AS), PoE (802.3af), Max. 6.5W	DC12V(-AS), PoE (802.3af), Max. 6.5W

# NETWORK CAMERAS

## Special Series

### Mobile Camera

Model	IPC-MW1230D-HM12/VM12	IPC-MDW4330-M12	IPC-HDBW4231F-E2-M/M12	IPC-EB5531-M/M12
Appearance			 	
Image Sensor	1/2.7" 2MP progressive scan CMOS	1/3" 3MP CMOS	Two 1/2.8" 2MP STARVISTM CMOS	1/2.7" 5MP CMOS
Lens	2.8mm fixed lens (3.6mm, 6mm optional)	2.1mm fixed lens (2.8mm optional)	2.8mm fixed lens (3.6mm optional)	1.4mm fixed lens
FOV-H	H: 115° (86°, 53°), V: 62° (47°, 30°)	121°/86°/64°	110°/86°	H: 180°, V: 180°
Min. Illumination	0.02Lux/F2.1 (Color, 1/3s, 30IRE) 0.2Lux/2.1 (Color, 1/30s, 30IRE) 0Lux/F2.1 (IR on)	2.1mm: 0.06Lux/F2.2 (Color, 1/3s, 30IRE) 0.35Lux/2.2 (Color, 1/25s, 30IRE); 0Lux/F2.2 (IR on) 2.8mm, 3.6mm: 0.04Lux/F2.0 (Color, 1/3s, 30IRE) 0.25Lux/2.0 (Color, 1/25s, 30IRE) 0Lux/F2.0 (IR on)	0.009Lux/F2.0 (Color, 1/3s, 30IRE) 0.07Lux/2.0 (Color, 1/30s, 30IRE) 0Lux/F2.0 (IR on)	0.02Lux/F1.6 (Color, 1/3s, 30IRE) 0.2Lux/1.6 (Color, 1/30s, 30IRE) 0.05Lux/F1.6 (B/W, 1/3s, 30IRE) 0.5Lux/1.6 (B/W, 1/30s, 30IRE)
Day/Night	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto(ICR) / Color / B/W	Electronic
WDR	DWDR	DWDR	120dB, only fot CH1	120dB
Max. IR Distance	Distance up to 30m (98ft)	20m	20m	N/A
Video Compression	H.265+/H.265/H.264+/H.264	H.265/H.264H/MJPEG (Sub Stream)	H.265/H.264H/MJPEG (Sub Stream)	H.265+/H.265/H.264+/H.264
Smart Codec	1080P (1920×1080)	3MP (2048×1536)	2MP (1920×1080)	5M (2592×1944)
Max. Resolution	Smart H265+/H264+	Smart H265+/H264+	Smart H265+/H264+	Smart H265+/H264+
Frame Rate	Main Stream: 1080P (1~25/30fps) Sub Stream: D1 (1~25/30fps)	3M (1~25fps)	1080P (1~25/30fps)	Main Stream: 5M (1~25fps) Sub Stream: D1 (1~25/30fps)
Multi-streaming	2 Streams	3 Streams	2 streams	3 streams
Pan/Tilt/Rotation	N/A	Pan: 0°~360°; Tilt: ±40° Rotation: 0°~360°	Pan:±90°; Tilt:0°~65° Rotation:0°~360°	Pan: 0°~355°; Tilt: 0°~75°; Rotation: 0°~360°
Intelligent Video	--	Tripwire, Intrusion, Object Abandoned/ Missing, Face Detection	Tripwire, Intrusion, Object Abandoned/ Missing, Face Detection	Tripwire, Intrusion, Object Abandoned/ Missing, Face Detection
Compatibility	ONVIF profile S, CGI	ONVIF Profile S & G, API	ONVIF Profile S&G, API	ONVIF Profile S&G, API
Audio In/Out	N/A	1 Built-in Mic	Built-in Mic	Built-in Mic
Memory Slot		Mirco SD card 128GB	Mirco SD card 128GB	Mirco SD card 128GB
Alarm In/Out	N/A		N/A	N/A
Ingress Protection	IP67, IP6K9K	N/A	IP67, IK10	IP67, IK08
Working Temperature	-30° C ~ +60° C (-22° F ~ +140° F)/Less than 95% RH	-30°C~+60°C	-30°C~+60°C	-30°C~+60°C
Power	DC12V, <3.7W	DC 12V (M12 Connector)	M Model: DC12V, PoE (802.3af) (Class 0) M12 Model: PoE (802.3af) (Class 0)	M Model: DC12V+PoE M12 Model: PoE

# NETWORK PTZ CAMERAS





# WizMind Series PTZ Camera

WizMind Series PTZ cameras adopt with advanced AI technologies, including deep learning algorithms that primarily target people and vehicles, providing higher flexibility and accuracy for end-users. Perimeter Protection, Metadata, and Face Recognition, it aims to provide potential risk prevention and real-time event alarm.



## Face Recognition

It provides highly accurate detection and recognition with advanced AI technology.



## Auto Tracking

Auto tracking supports targets classification tracking.



## Video Metadata

Attribute information are extracted from targets, including human body, human face, as well as motor and non-motor vehicles.





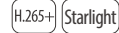
## OIS

Large Optical Zoom with Optical Image Stabilization offers better performance.

# NETWORK PTZ CAMERAS

## WizMind Series





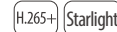
### Panoramic-detail Camera

Model	SDT5X405-4F-WA		SDT5X225-2F-WA-0600	
Appearance	  		  	
	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	6mm	10mm~50mm (5x Optical zoom)	6mm	4.8mm~120mm (25x Optical zoom)
FOV-H	57°	45°~10°	53.7°	59.6°~4.8°
Min. Illumination	0.0005Lux/F1.0 (Color) 0.0001Lux/F1.0 (B/W)	0.001Lux/F1.3 (Color) 0Lux/F1.3 (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	30m (98.43ft)	100m (328.08ft)	30m (98.43ft)	100m (328.08ft)
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 (2688x1520)	4MP (2688x1520)	2MP (1920x1080)	2MP (1920x1080)
Frame Rate	30fps@4MP	30fps@4MP	60fps@2MP	60fps@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°
Pre-set 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 Profile S & G & T, API		ONVIF Profile S & G & T, 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	
Working Temperature	-40°C~-70°C (-40°F~+158°F)		-40°C~-70°C (-40°F~+158°F)	
Power	DC36V, Hi-PoE, Max. 40W		DC36V, Hi-PoE, Max. 40W	
<b>Artificial Intelligence</b>				
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
Video Metadata	Supported	Supported	--	--
Face Recognition	Supported	Supported	--	--
Face Detection	Supported	Supported	--	--

# NETWORK PTZ CAMERAS

## WizMind Series

### Panoramic-detail Camera

Model	SDT5X425-4Z4-WA-2812		SDT5X425-4Z4-WA-0832	
Appearance	  		  	
	Panoramic	Detail	Panoramic	Detail
Image Sensor	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS
Lens	2.8 mm–12 mm (4x Optical zoom)	5.4 mm–135 mm (25x Optical zoom)	8 mm–32 mm (4x Optical zoom)	5.4 mm–135 mm (25x Optical zoom)
FOV-H	99.2°~45.8°	58°~3.5°	42°~15°	58°~3.5°
Min. Illumination	0.001Lux/F1.6 (Color)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.001Lux/F1.6 (Color)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR on)
WDR	120dB	120dB	120dB	120dB
Max. IR Distance	30m (98.43 ft)	100m (328.08 ft)	30m (98.43 ft)	100m (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 (2560x1440)	4MP (2560x1440)	4MP (2560x1440)	4MP (2560x1440)
Frame Rate	30fps@4MP	30fps@4MP	30fps@4MP	30fps@4MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless Tilt: 0°~30°	Pan: 0°~305° Tilt: -3°~90°	Pan: 0°~360° endless Tilt: 0°~30°	Pan: 0°~305° Tilt: -3°~90°
Pre-set Speed	Pan: 100°/s; Tilt: 25°/s	Pan: 100°/s; Tilt: 25°/s	Pan: 100°/s; Tilt: 25°/s	Pan: 100°/s; Tilt: 25°/s
Compatibility	ONVIF Profile S & G & T, API		ONVIF Profile S & G & T, API	
Audio In/Out	1/1		1/1	
Memory Slot	Micro SD, Max. 256GB		Micro SD, Max. 256GB	
Alarm In/Out	1/1		1/1	
Ingress Protection	IP67		IP67	
Working Temperature	-40°C~+70°C (-40°F~+158°F)		-40°C~+70°C (-40°F~+158°F)	
Power	DC36V, Hi-PoE, Max. 40W		DC36V, Hi-PoE, Max. 40W	
<b>Artificial Intelligence</b>				
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
Video Metadata	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported



# NETWORK PTZ CAMERAS






## WizMind Series

	IR PTZ Camera					Traffic Parking PTZ Camera	IR PTZ Camera
Model	SD10A848WA-HNF	SD10A260WA-HNF	SD8A840WA-HNF	SD8A820WA-HNF	SD8A440WA-HNF	SD8A440-HNT-WA	SD8A250WA-HNF
Appearance	 4K H.265+ Starlight+	 H.265+ Starlight+	 4K H.265+ Polarlight	 4K H.265+ Polarlight	 H.265+ Starlight+	 Starlight+	 H.265+ OIS
Image Sensor	1/1.8" 8MP STARVIS™ CMOS	1/1.8" 2MP STARVIS™ CMOS	1/1.8" 8MP STARVIS™ CMOS	4/3" 8MP STARVIS™ CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP CMOS
Lens	5.7mm~275mm (48x Optical zoom)	5.6mm~336mm (60x Optical zoom)	5.6mm~223mm (40x Optical zoom)	16mm~320 mm (20x Optical zoom)	5.6mm~223mm (40x Optical zoom)	5.5mm~220mm (40x Optical zoom)	6.6mm~330mm (50x Optical zoom)
FOV-H	64.9°~1.8°	64.9°~1.4°	63.9°~2.0°	58.1°~3.2°	63.9°~2.0°	63.9°~2.0°	41.3°~1.1°
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)	0.001Lux/F1.4 (Color) 0Lux/F1.4 (IR on)	0.05Lux@F1.8 (Color) 0Lux@F1.8 (IR on)
WDR	120dB	120dB	120dB	120dB	120dB	94dB	120dB
Max. IR Distance	450m (1476ft)	450m (1476ft)	500m (1640ft)	500 m (1640ft)	500m (1640ft)	500m (1640 ft)	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)	4MP (2560×1440)	1080P (2560×1440)
Frame Rate	30fps@4K	30fps@1080P	30fps@4K	30fps@4K	30fps@4MP	30fps@4MP	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 Profile S & G & T, API	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, 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
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)	-40°C~+70°C (-40°F~+158°F)
Power	DC36V, Hi-PoE, Max. 42W	DC36V, Hi-PoE, Max. 42W	DC36V, Hi-PoE, Max. 42W	DC36V, Hi-POE, Max. 42W	DC36V, Hi-PoE, Max. 42W	DC36V, Hi-PoE, Max. 48W	DC36V, Hi-PoE, Max. 38W
<b>Artificial Intelligence</b>							
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 Metadata	Supported	Supported	Supported	Supported	Supported	--	Supported
Face Recognition	--	--	Supported	Supported	Supported	--	Supported
Face Detection	--	--	Supported	Supported	Supported	--	Supported

# NETWORK PTZ CAMERAS

## WizMind Series

NETWORK PTZ CAMERAS

	IR PTZ Camera		Laser PTZ Camera		IR PTZ Camera		Vandal-proof PTZ Camera
Model	SD8A240WA-HNF	SD6AL445XA-HNR	SD6AL233XA-HNR	SD6AL445XA-HNR-IR	SD6AL233XA-HNR-IR	SD6AE233XA-HNR	SD65F233XA-HNR
Appearance							
Image Sensor	1/1.8" 2MP CMOS	1/2.8" 4MP CMOS	1/1.8" 2M CMOS	1/2.8" 4MP CMOS	1/1.8" 2MP CMOS	1/1.8" 2MP CMOS	1/1.8" 2MP CMOS
Lens	5.6mm~223mm (40x Optical zoom)	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°	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	0.001Lux/F1.4 (Color) 0Lux/F1.4 (IR on)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.001Lux/F1.5 (Color) 0Lux/F1.5 (IR on)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.001Lux/F1.5 (Color) 0Lux/F1.5 (IR on)	0.001Lux/F1.5 (Color) 0Lux/F1.5 (IR on)	0.001Lux/F1.5 (Color) 0.0001Lux/F1.5 (B/W)
WDR	120dB	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	500m (1640ft)	550m (1804ft)	550m (1804ft)	300m (984ft)	300m (984ft)	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	H.265+/H.265/H.264+/H.264
Max. Resolution	1080P (1920x1080)	4MP (2560x1440)	1080P (1920x1080)	4MP (2560x1440)	1080P (1920x1080)	1080P (1920x1080)	1080P (1920x1080)
Frame Rate	60fps@1080P	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	3 streams
Pan/Tilt	Pan: 0° ~ 360° endless Tilt: -30° ~ 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°	Pan: 0°~360° endless Tilt: -20°~90°
Preset Speed	Pan: 240°/s; Tilt: 120°/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: 240°/s; Tilt: 200°/s	Pan: 600°/s; Tilt: 500°/s
Compatibility	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, 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, 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)	-40°C~+70°C (-40°F~+158°F)
Power	DC36V, Hi-PoE, Max. 38W	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
<b>Artificial Intelligence</b>							
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
Smart Capture	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Face Recognition	Supported	--	--	--	--	--	--
Face Detection	Supported	Supported	Supported	Supported	Supported	Supported	Supported

# All-environment Series

All-environment Series is designed for projects with high 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).



## Powerful Zoom

Its 25x, 40x, 48x and 60x optical zoom easily covers large areas.



## Super IR Range

Cameras provide up to 1,200m IR range performance even in dark environments.



## Perimeter Protection

Supports people and vehicle classification, which significantly improves accuracy, reduces false alarms and decreases pixel count requirements for object detection.



## PFA

Improves focusing performance to a new level.

# NETWORK PTZ CAMERAS

## All-environment Series






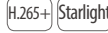




### Laser Positioning System

### IR Positioning System

Model	PTZ85260-HNF-WA-FL	PTZ85260-HNF-WA	PTZ83840-HNF-WA	PTZ83440-HNF-WA	PTZ83240-HNF-WA
Appearance	 <b>Wiz Mind</b> H.265+ Starlight+	 <b>Wiz Mind</b> H.265+ Starlight+	 <b>Wiz Mind</b> 4K H.265+ Starlight+	 <b>Wiz Mind</b> H.265+ Starlight+	 <b>Wiz Mind</b> H.265+ Starlight+
Image Sensor	1/1.8" 2MP CMOS	1/1.8" 2MP CMOS	1/1.8" 8MP STARVIS™ CMOS	1/1.8" 4MP CMOS	1/1.8" 2MP CMOS
Lens	5.6mm~336mm (60x Optical zoom)	5.6mm~336mm (60x Optical zoom)	5.6mm~224mm (40x Optical zoom)	5.6mm~224mm (40x Optical zoom)	5.6mm~224mm (40x Optical zoom)
FOV-H	56.4°~1.2°	56.4°~1.2°	63.9°~2.0°	63.9°~2.0°	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)	0.005Lux/F1.4 (Color) 0Lux/F1.4 (IR on)	0.001Lux/F1.4 (Color) 0Lux/F1.4 (IR on)	0.001Lux/F1.4 (Color) 0Lux/F1.4 (IR on)
WDR	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	1000m (3280.84ft)	400m (1312.34ft)	400m (1312.24ft)	400m (1312.24ft)	400m (1312.24ft)
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)	4K (3840×2160)	4M (2560×1440)	1080P (1920×1080)
Frame Rate	30fps@1080P	30fps@1080P	30fps@4K	30fps@4M	60fps@2M
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless Tilt: -90°~45°	Pan: 0°~360° Tilt: -90°~45°	Pan: 0°~360° endless Tilt: -90°~45°	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	Pan: 160°/s; Tilt: 60°/s	Pan: 160°/s; Tilt: 60°/s	Pan: 160°/s; Tilt: 60°/s
Compatibility	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, 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	7/2	7/2	7/2	7/2
Ingress Protection	IP67	IP67	IP67	IP67	IP67
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)
Power	DC36V, Max. 67.5W	DC36V, Max. 61.6W	DC36V, Max. 61.35W	DC36V, Max. 61.35W	DC36V, Max. 61.35W
<b>Artificial Intelligence</b>					
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
Auto Tracking	Supported	Supported	Supported	Supported	Supported
Video Metadata	Supported	Supported	Supported	Supported	Supported
Face Recognition	--	--	Supported	Supported	Supported
Face Detection	--	--	Supported	Supported	Supported

# NETWORK PTZ CAMERAS

## All-environment Series

	IR Positioning System	Anti-corrosion PTZ Camera		Anti-corrosion Camera	
Model	PTZ19245U-IRB-N (-B)	SD5A225XA-SL	SD60230U-HNI-SL	SDZW2030U-SL	SDZW2000T-SL
Appearance	 	 	 	 	 
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	3.95~177.7mm (45x Optical zoom)	5.4mm~135mm (25x Optical zoom)	4.5~135mm (30x Optical zoom)	4.5~135mm (30x Optical zoom)	3.6mm/F2.1, 6mm/F2.0
FOV-H	70.3°~1.8°	58.7°~3.1°	67.8°~2.4°	67.8°~2.4°	87° / 51°
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) 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
Max. IR Distance	350m (1148ft)	150 m (492 ft)	--	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
Max. Resolution	1080P (1920×1080)	2MP (1920×1080)	1080P (1920×1080)	1080P (1920×1080)	1080P (1920×1080)
Frame Rate	60fps@1080P	60fps@1080P	60fp@1080P	60fp@1080P	60fp@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless Tilt: 0°~360° endless (Effective angle:-55°~+223°)	Pan: 0° ~ 360° endless Tilt:-15° ~ 90°	Pan: 0°~360° endless Tilt: -20°~90°	--	--
Preset Speed	Pan: 120°/s; Tilt: 60°/s	Pan: 400°/s; Tilt: 300°/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
Compatibility	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, 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	2/1	7/2	2/2	--
Ingress Protection	IP68	IP67; IK10	IP68, IK10	IP68	IP68, IK10
Working Temperature	-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 ~ +70°C(-40°F~+158°F)	-40°C ~ +60°C(-40°F~+140°F)
Power	AC24V: Max. 80W AC24V(-B Model), Hi-PoE: Max. 40W	DC24V, PoE+(802.3at), Max. 20W	AC24V, PoE+(802.3at) Max. 20W	AC24V, DC12V, PoE+(802.3at) Max. 25W	DC12V, PoE(802.3af) Max. 5W
<b>Artificial Intelligence</b>					
Perimeter Protection	--	Tripwire, Intrusion (Human & Vehicle Classification), Object Abandoned, Object Missing	--	--	--
SMD Plus	--	Supported	--	--	--
Auto Tracking	--	Supported	--	--	--
Smart Capture	--	Supported	--	--	--
Face Detection	--	Supported	--	--	--

# NETWORK PTZ CAMERAS

## All-environment Series

### Explosion-proof Camera

### Explosion-proof PTZ Camera

Model	EPC230U	ECA3A1404-HNR-XB(-F)	ECA7A1425-HNR-XA-F	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	 H.265+ Starlight	 H.265+ Starlight
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 4MP CMOS	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	4.5~135mm (30x Optical zoom)	2.8 mm~12 mm (4x Optical zoom)	5.4mm~135mm (25x 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°	91.9°~42.8°	59.8°~2.8°	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/F1.8 (Color) 0Lux/F1.8 (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/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	120dB	120dB
Max. IR Distance	100m (328ft)	40 m (131 ft)	100 m (328 ft)	--	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	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Max. Resolution	1080P (1920×1080)	4MP (2560×1440)	4MP (2560×1440)	1080P (1920×1080)	1080P (1920×1080)	1080P (1920×1080)	1080P (1920×1080)
Frame Rate	60fp@1080P	30fps@4MP	30fps@4MP	60fps@1080P	60fps@1080P	60fp@1080P	60fp@1080P
Multi-streaming	3 streams	3 streams	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	--	--	--	--	--	--
Compatibility	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, API	ONVIF Profile S & G & T, 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	2/1	2/1	2/1	2/1	2/1	2/1	2/1
Ingress Protection	IP68	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)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	AC220V (AC100V~240V), Hi-PoE Max. 25W	DC12V, PoE+(802.3at) Max. 9W	AC 100V~240V	AC220V (AC100V~240V) Max. 60W	AC220V (AC100V~240V) Max. 75W	AC220V (AC100V~240V) Max. 60W	AC220V (AC100V~240V) Max. 75W
<b>Artificial Intelligence</b>							
Perimeter Protection	--	Tripwire, Intrusion (Human & Vehicle Classification), Object Abandoned, Object Missing	Tripwire, Intrusion (Human & Vehicle Classification), Object Abandoned, Object Missing	--	--	--	--
SMD Plus	--	Supported	Supported	--	--	--	--
Auto Tracking	--	--	--	--	--	--	--
Smart Capture	--	Supported	Supported	--	--	--	--
Face Detection	--	Supported	Supported	--	--	--	--

# NETWORK VIDEO RECORDERS





# WizMind Series NVR

The WizMind series, which adopts advanced AI chip and industrial design, delivers more powerful artificial intelligence performance. Featuring face recognition, perimeter protection, and video metadata algorithm, it provides users with real-time event alarms, as well as quick target tracking.



## Face Recognition

Supports recording of face image metadata and real-time crosschecking with incredible accuracy to locate the face image that matches the target's features.



## Perimeter Protection

Supports people and vehicle classification, which significantly improves accuracy, reduces false alarms and decreases pixel count requirements for object detection.



## Video Metadata

Attribute information are extracted from targets, including human body, human face, as well as motor and non-motor vehicles.



## Rich Features

Offers AI by camera features including ANPR, Perimeter Protection, Face Detection, Heat Map, People Counting and SMD Plus.



# NETWORK VIDEO RECORDERS

## WizMind NVR

### WizMind IVSS

Model	IVSS7024 (DR)-16I	IVSS7024 (DR)-8I	IVSS7016 (DR)-8I	IVSS7016 (DR)-4I	IVSS7008-2I	IVSS7008-1I
Appearance						
Processor	Intel Quad Core CPU	Intel Quad Core CPU	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	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
IP Video Inputs	256 channel	256 channel	256 channel	256 channel	128 channel	128 channel
Max Input/Record	512Mbps/384Mbps	512Mbps/384Mbps	512Mbps/384Mbps	512Mbps/384Mbps	400Mbps/320Mbps	400Mbps/320Mbps
Max Decoding	6ch@8MP/24ch@1080P	6ch@8MP/24ch@1080P	6ch@8MP/24ch@1080P	6ch@8MP/24ch@1080P	5ch@8MP/20ch@1080P	5ch@8MP/20ch@1080P
Display	3HDMI, 1VGA, LCD (optional)	3HDMI, 1VGA, LCD (optional)	3HDMI, 1VGA, LCD (optional)	3HDMI, 1VGA, LCD (optional)	3HDMI, 2VGA	3HDMI, 2VGA
Max HDD	24x10TB	24x10TB	16x10TB	16x10TB	8x10TB	8x10TB
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	1/2	1/2	1/2	1/2	1/--	1/--
Audio In/Out	1/1	1/1	1/1	1/1	1/2	1/2
Alarm In/Out	16/8	16/8	16/8	16/8	16/8	16/8
Ethernet	4 Gigabit Ports	4 Gigabit Ports	4 Gigabit Ports	4 Gigabit Ports	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	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)	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	Fisheye Dewarp, Smart Track, N+M, P2P	Fisheye Dewarp, Smart Track, N+M, P2P	Fisheye Dewarp, Smart Track, N+M, P2P	Fisheye Dewarp, Smart Track, N+M, P2P	Fisheye Dewarp, Smart Track, N+M, P2P	Fisheye Dewarp, Smart Track, N+M, P2P
<b>Artificial Intelligence by Device</b>						
Perimeter Protection	Up to 256 channel perimeter protection	Up to 128 channel perimeter protection	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	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	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
Video Metadata	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	Search by face images
SMD Plus	--	--	--	--	--	--
<b>Artificial Intelligence by Camera</b>						
Perimeter Protection	Supported	Supported	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported	Supported	Supported
Video Metadata	Supported	Supported	Supported	Supported	Supported	Supported
SMD Plus	--	--	--	--	--	--
People Counting	--	--	--	--	--	--
Heat Map	--	--	--	--	--	--
ANPR	Supported	Supported	Supported	Supported	Supported	Supported

# NETWORK VIDEO RECORDERS

## WizMind NVR

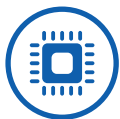
### WizMind NVR

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	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P	4ch@8MP/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	Fisheye Dewarp, POS, P2P	Fisheye Dewarp, POS, P2P	Fisheye Dewarp, POS, ePoE&EoC, Plug & Play, P2P	Fisheye Dewarp, POS, ePoE&EoC, Plug & Play, P2P	Fisheye Dewarp, POS, ePoE&EoC, Plug & Play, P2P
<b>Artificial Intelligence by Device</b>					
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	Up to 16 channel perimeter protection
Face Recognition	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	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	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	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	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
Video Metadata	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
SMD Plus	Up to 16 channel SMD Plus	Up to 16 channel SMD Plus	Up to 16 channel SMD Plus	Up to 16 channel SMD Plus	Up to 16 channel SMD Plus
<b>Artificial Intelligence by Camera</b>					
Perimeter Protection	Supported	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported	Supported
Video Metadata	Supported	Supported	Supported	Supported	Supported
SMD Plus	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported	Supported
ANPR	Supported	Supported	Supported	Supported	Supported



# Ultra Series NVR

The Ultra Series is an ideal option for applications which require powerful performance and high reliability. Its multi-core CPU and redundant design ensures stability while its advanced intelligent features provide complex applications with intelligent video analytics.



## Powerful Processor

Multi-core Intel CPU provides high performance processing



## Industrial Design

High quality design ensures high reliability and data safety.



## Data Protection

RAID 0/1/5/10, N+M Failover.



## Rich Features




Offers AI by camera features including ANPR, Perimeter Protection, Face Detection, Heat Map, People Counting and SMD Plus.

# NETWORK VIDEO RECORDERS

## Ultra Series

### Ultra 4K & H.265 IVSS

### 16HDD Ultra 4K & H.265 NVR

Model	IVSS7024DR	IVSS7024	IVSS7016DR	IVSS7016	IVSS7008	NVR616DR-128-4KS2
Appearance	 	 	 	 	 	 
Processor	Intel Quad Core CPU	Intel Quad Core CPU	Intel Quad Core CPU	Intel Quad Core CPU	Intel Dual 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	256 channel	256 channel	256 channel	256 channel	128 channel	128 channel
Max Input/Record	768Mbps/768Mbps	768Mbps/768Mbps	768Mbps/768Mbps	768Mbps/768Mbps	512Mbps/400Mbps	384Mbps/384Mbps
Max Decoding	6ch@8MP/24ch@1080P	6ch@8MP/24ch@1080P	6ch@8MP/24ch@1080P	6ch@8MP/24ch@1080P	5ch@8MP/20ch@1080P	4ch@8MP/16ch@1080P
Display	3HDMI, 1VGA, LCD	3HDMI, 1VGA	3HDMI, 1VGA, LCD	3HDMI, 1VGA	3HDMI, 2VGA	2HDMI, 1VGA, LCD
Max HDD	24x10TB	24x10TB	16x10TB	16x10TB	8x10TB	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	1/2	1/2	1/2	1/2	1/--	1/1
Audio In/Out	1/1	1/1	1/1	1/1	1/2	1/1, 2-way
Alarm In/Out	16/8	16/8	16/8	16/8	16/8	16/8
Ethernet	4 Gigabit Ports	4 Gigabit Ports	4 Gigabit Ports	4 Gigabit Ports	4 Gigabit Ports	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, Redundant <144W (Without HDD)	AC100V~240V, <144W (Without HDD)	AC100V~240V, Redundant <122W (Without HDD)	AC100V~240V, <122W (Without HDD)	AC100V~240V <40W (Without HDD)	AC100V~240V, Redundant <51W (Without HDD)
Star Features	Fisheye Dewarp, Smart Track, N+M, P2P	Fisheye Dewarp, Smart Track, N+M, P2P	Fisheye Dewarp, Smart Track, N+M, P2P	Fisheye Dewarp, Smart Track, N+M, P2P	Fisheye Dewarp, Smart Track, N+M, P2P	Fisheye Dewarp, Smart Track, POS, N+M, P2P
<b>Artificial Intelligence by Camera</b>						
Perimeter Protection	Supported	Supported	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported	Supported	Supported
Video Metadata	Supported	Supported	Supported	Supported	Supported	Supported
SMD Plus	--	--	--	--	--	Supported
People Counting	--	--	--	--	--	Supported
Heat Map	--	--	--	--	--	Supported
ANPR	Supported	Supported	Supported	Supported	Supported	Supported

# NETWORK VIDEO RECORDERS

## Ultra Series

### 16HDD Ultra 4K & H.265 NVR





Model	NVR616R-128-4KS2	NVR616D-128-4KS2	NVR616-128-4KS2	NVR616DR-64-4KS2	NVR616R-64-4KS2	NVR616D-64-4KS2
Appearance	 <span>H.265+</span>	 <span>H.265+</span>	 <span>H.265+</span>	 <span>H.265+</span>	 <span>H.265+</span>	 <span>H.265+</span>
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	128 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@8MP/16ch@1080P	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P
Display	2HDMI, 1VGA	2HDMI, 1VGA, LCD	2HDMI, 1VGA	2HDMI, 1VGA, LCD	2HDMI, VGA	2HDMI, 1VGA, LCD
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, Redundant <51W (Without HDD)	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)
Star Features	Fisheye Dewarp, Smart Track, POS, N+M, P2P	Fisheye Dewarp, Smart Track, POS, N+M, P2P	Fisheye Dewarp, Smart Track, POS, N+M, P2P	Fisheye Dewarp, Smart Track, POS, N+M, P2P	Fisheye Dewarp, Smart Track, POS, N+M, P2P	Fisheye Dewarp, Smart Track, POS, N+M, P2P
<b>Artificial Intelligence by Camera</b>						
Perimeter Protection	Supported	Supported	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported	Supported	Supported
Video Metadata	Supported	Supported	Supported	Supported	Supported	Supported
SMD Plus	Supported	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported	Supported	Supported
ANPR	Supported	Supported	Supported	Supported	Supported	Supported

# NETWORK VIDEO RECORDERS

## Ultra Series

### 16HDD Ultra 4K & H.265 NVR

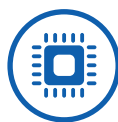
### 8HDD Ultra 4K & H.265 NVR

Model	NVR616-64-4KS2	NVR608R-128-4KS2	NVR608-128-4KS2	NVR608R-64-4KS2	NVR608-64-4KS2	NVR608-32-4KS2
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 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	H.265+/H.265/H.264+/H.264
IP Video Inputs	64 channel	128 channel	128 channel	64 channel	64 channel	32 channel
Max Input/Record	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps
Max Decoding	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P	4ch@8MP/16ch@1080P
Display	2HDMI, 1VGA	2HDMI, 1VGA	2HDMI, 1VGA	2HDMI, 1VGA	2HDMI, 1VGA	2HDMI, 1VGA
Max HDD	16x8TB	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	0/1/5/10
eSATA/Mini SAS	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	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	2 USB3.0, 2 USB2.0
Power	AC100V~240V <51W (Without HDD)	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, P2P	Fisheye Dewarp, Smart Track, POS, N+M, P2P	Fisheye Dewarp, Smart Track, POS, N+M, P2P	Fisheye Dewarp, Smart Track, POS, N+M, P2P	Fisheye Dewarp, Smart Track, POS, N+M, P2P	Fisheye Dewarp, Smart Track, POS, N+M, P2P
<b>Artificial Intelligence by Camera</b>						
Perimeter Protection	Supported	Supported	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported	Supported	Supported
Video Metadata	Supported	Supported	Supported	Supported	Supported	Supported
SMD Plus	Supported	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported	Supported	Supported
ANPR	Supported	Supported	Supported	Supported	Supported	Supported

NETWORK VIDEO RECORDER

# Pro Series NVR

The Pro Series is a perfect choice for middle to large-scale businesses and projects where both high reliability and flexibility are required. Innovative H.265+ encoding technology and advanced intelligence such as Perimeter Protection by camera further enhance surveillance monitoring.



## Powerful Processor

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



## Smart H.265+ & Smart H.264+

Supports Smart H.265+/H.264+ decoding, providing high-quality videos and reducing storage and transmission costs.



## Advanced Intelligence

Offers AI by camera features including ANPR, Perimeter Protection, Face Detection, Heat Map, People Counting and SMD Plus.










## Rich Features

Fisheye dewarp, POS, P2P.

# NETWORK VIDEO RECORDERS

## 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	8x10TB	8x10TB	8x10TB
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
<b>Artificial Intelligence by Camera</b>			
Perimeter Protection	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported
Video Metadata	Supported	Supported	Supported
SMD Plus	Supported	Supported	Supported
People Counting	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported
ANPR	Supported	Supported	Supported








# NETWORK VIDEO RECORDERS

## Pro Series

### 4HDD Professional 4K & H.265 NVR





### 2HDD Professional 4K & H.265 NVR

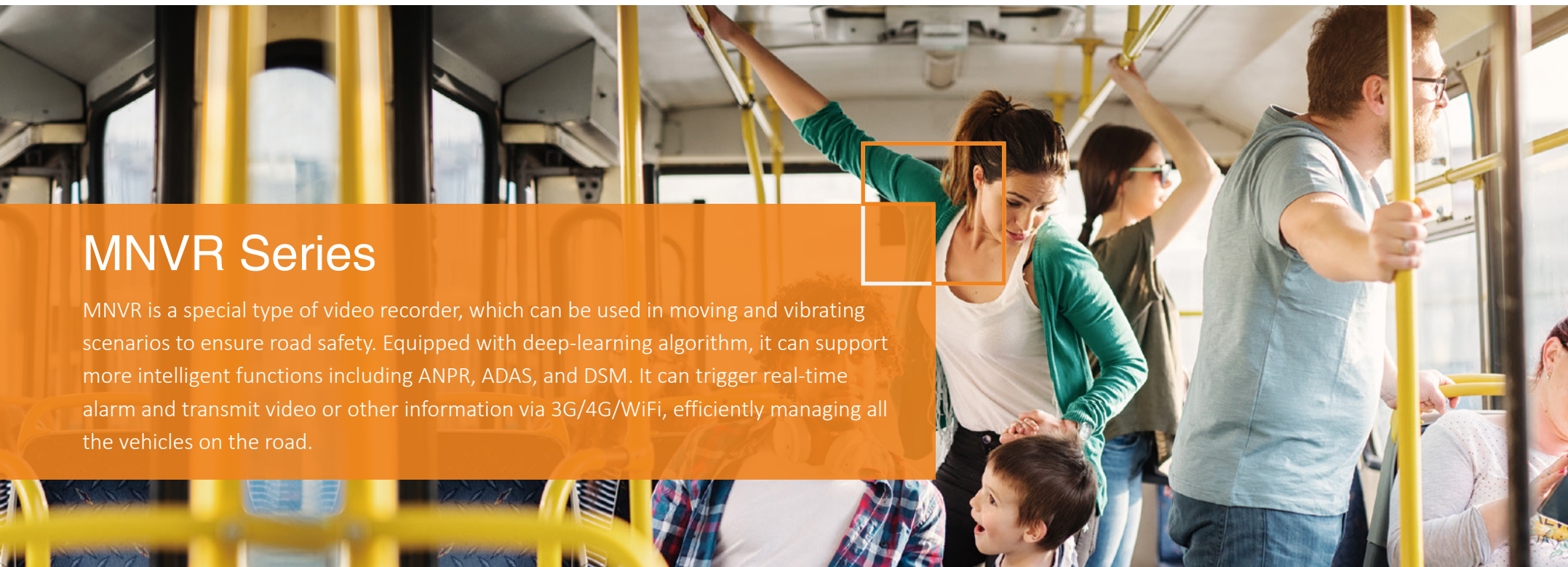
Model	NVR5432-4KS2	NVR5416-4KS2	NVR5424-24P-4KS2	NVR5416-16P-4KS2E	NVR5232-4KS2
Appearance	 V2.00 H.265+	 V2.00 H.265+	 H.265+	 ePoE H.265+	 V2.00 H.265+
Processor	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU	ARM Quad Core CPU
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	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
<b>Artificial Intelligence by Camera</b>					
Perimeter Protection	Supported	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported	Supported
Video Metadata	Supported	Supported	Supported	Supported	Supported
SMD Plus	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported	Supported
ANPR	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	NVR5216-8P-4KS2E	NVR5208-8P-4KS2E
Appearance	 V2.00 H.265+	 V2.00 H.265+	 H.265+	 ePoE H.265+	 ePoE H.265+	 ePoE H.265+
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	16 channel	8 channel	24 channel	16 channel	16 channel	8 channel
Max Input/Record	320Mbps/320Mbps	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	4ch@8MP/16ch@1080P
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	2×10TB	2×10TB	2×10TB	2×10TB	2×10TB	2×10TB
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	--	--	24 Ports (IEEE802.3at/af) Max. 210W	16 Ports (IEEE802.3at/af) Max. 130W 1-8 PoE ports support ePoE & EoC	8 Ports (IEEE802.3at/af) Max. 130W 1-8 PoE ports support ePoE & EoC	8 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	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)	AC100V~240V <14.5W (Without HDD)	AC100V~240V <14.5W (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, Plug & Play	Fisheye Dewarp, POS, P2P, Plug & Play
<b>Artificial Intelligence by Camera</b>						
Perimeter Protection	Supported	Supported	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported	Supported	Supported
Video Metadata	Supported	Supported	Supported	Supported	Supported	Supported
SMD Plus	Supported	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported	Supported	Supported
ANPR	Supported	Supported	Supported	Supported	Supported	Supported



## MNVR Series

MNVR is a special type of video recorder, which can be used in moving and vibrating scenarios to ensure road safety. Equipped with deep-learning algorithm, it can support more intelligent functions including ANPR, ADAS, and DSM. It can trigger real-time alarm and transmit video or other information via 3G/4G/WiFi, efficiently managing all the vehicles on the road.



### Extreme Environment Performance

- Supports Wide-range temperature: -30~75 °C.
- Supports Anti-vibration.



### Reliable Power Design

- Supports data writing even after sudden power failure.
- Supports 6V to 36V wide power voltage input.



### Wireless Transmission

- Supports transmission of real-time video or alarm via 3G/4G/WiFi.
- Supports GPS module.



### AI Functions

- Supports ANPR, Advanced Driver Assistance System, Driver Status Monitoring, as well as Face Comparison in 8 series.

## MNVR Series

Model	MNVR8104/8208-I Series	MNVR4104/4208 Series	MXVR4104 Series	MXVR1004 Series
Appearance				
Feature	AI H.265 MNVR	H.265 MNVR	H.265 MXVR	H.265 Dual SD card MXVR
Decode Resolution	4MP	4MP	1080P	1080P
Video Input	4/8 channel+ADAS+DSM	4/8 channel	4 channel aviation connector	4 channel aviation connector
Compression	H.265/smart H.265/H.264/smart H.264	H.265/smart H.265/H.264/smart H.264	H.265/smart H.265/H.264/smart H.264	H.265/smart H.265/H.264/smart H.264
Video Output	VGA, HDMI	VGA, HDMI, TV	VGA, TV	TV
Audio talk	1 channel	1 channel	1 channel	1 channel
HDD	support 1/2 sata HDD	Support 1/2 sata HDD	Support 1 sata HDD	--
SD Card	1 SD card	1 SD card	1 SD card	2 SD cards
Backup Mode	External USB storage device; network backup	External USB storage device; network backup	External USB storage device; network backup	External USB storage device; network backup
Alarm Input	9 channels (1-8 local alarm, 9 pulse input)	9 channels (1-8 local alarm, 9 pulse input)	9 channels (1-8 local alarm, 9 pulse input)	7 channels (7th is the pulse input)
Alarm Output	1 channel relay output, 1channel 12V output	1 channel relay output, 1channel 12V output	1 channel relay output, 1channel 12V output	1 channel relay output, 1channel 12V output
USB	2 USB3.0, 1 USB 2.0	3 USB 2.0	3 USB 2.0	2 USB 2.0
Network Interface	RJ45 (10/100/100Mbps) (Front panel)+4 POE; RJ45 (10/100/100Mbps) (Front panel)+8 POE	RJ45 (10/100/100Mbps) (Front panel)+4 POE; RJ45 (10/100/100/1000Mbps) (Front panel)+8 POE	1 RJ45 (Front panel); 1 6-pin aviation connector (Rear panel)	RJ45 (10/100Mbps) (Rear panel)
RS232	2	2	2	1
RS485	1	2	1	1
CAN	1	1	--	--
GPS	optional	optional	optional	optional
3G/4G	optional	optional	optional	optional
WIFI	optional	optional	optional	optional
G-Sensor	gyro	gyro	g-sensor	g-sensor
Power	Built in power DC 6V-36V	Built in power DC 6V-36V	Built in power DC 6V-36V	Built in power DC 6V-36V
Power Off Protection	Built-in UPS	Built-in UPS	Built-in UPS	Built-in UPS
Power	≤12W (without HDD)	MNVR4104:<10.2 W (without HDD) MNVR4208:<11.1 W (without HDD)	<8.4W (without HDD)	<6.7W, (without HDD)
Working Temperature	-30°C~+70°C (heater option)	-30°C~+70°C (heater option)	-30°C~+70°C (heater option)	-30°C~+70°C
Size (W×H×L)	180mm×190mm×50mm	180mm×190mm×50mm	180mm×190mm×50mm	160mm×138mm×48mm
Weigh	2.1kg (gross weight)	MNVR4104:2.93Kg (gross weight) MNVR4208:3.10Kg (gross weight)	2.83Kg (gross weight)	1.75Kg (gross weight)
Certification	CE/FCC/EN50155/ISO7637-2/ISO16750	CE/FCC/EN50155/ISO7637-2/ISO16750/ E-mark/BIS/EN45545-2	CE/FCC/EN50155/ISO7637-2/ISO16750/BIS	CE/FCC/EN50155/ISO7637-2/ISO16750/BIS

# EMBEDDED VIDEO STORAGE





# Embedded Video Storage

The EVS (Embedded Video Storage) is designed and developed to meet the needs of medium-range to high-end video storage applications. It provides a dual-mode storage solution that is able to work in both IPSAN mode and direct video stream storage mode.



## Modular Design

All key modules allows hot-swap and redundant configuration to ensure stability.



## RAID

Supports RAID 0/1/5/6/10/50/60 for faster and safer recording.



## N+M Failover

M failover nodes provide highly reliable redundancy to take over multiple faulty nodes for video safety.



## Storage Extension Capacity

Local extension connects with expansion storage cabinet via mini SAS HD interface.

# EMBEDDED VIDEO STORAGE


## EVS Series

	Model	EVS7148D	EVS7124D	EVS7148S	EVS7136S	EVS7124S
	Appearance					
System	Main processor	Double Controller (64-bit multi-core processor)	Double Controller (64-bit multi-core processor)	Single Controller (64-bit multi-core processor)	Single Controller (64-bit multi-core processor)	Single Controller (64-bit multi-core processor)
	Operation system	Embedded Linux	Embedded Linux	Embedded Linux	Embedded Linux	Embedded Linux
	Memory	16 GB (extendable to 64GB) for each controller	16 GB (extendable to 64GB) for each controller	8 GB (extendable to 64 GB)	8 GB (extendable to 64 GB)	8 GB (extendable to 64 GB)
Performance	Video direct storage (Private protocol)	512-channel (1024 Mbps) access, storage and forwarding	512-channel (1024 Mbps) access, storage and forwarding	512-channel (1024 Mbps) access, storage and forwarding	512-channel (1024 Mbps) access, storage and forwarding	512-channel (1024 Mbps) access, storage and forwarding
	Video direct storage (ONVIF protocol)	512-channel (1024 Mbps) access, storage and forwarding	512-channel (1024 Mbps) access, storage and forwarding	512-channel (1024 Mbps) access, storage and forwarding	512-channel (1024 Mbps) access, storage and forwarding	512-channel (1024 Mbps) access, storage and forwarding
	Video direct storage (Auto register)	512-channel (1024 Mbps) access, storage and forwarding	512-channel (1024 Mbps) access, storage and forwarding	512-channel (1024 Mbps) access, storage and forwarding	512-channel (1024 Mbps) access, storage and forwarding	512-channel (1024 Mbps) access, storage and forwarding
	IPSAN mode	Write-through: 900 Mbps, Write-back: 1200 Mbps	Write-through: 900 Mbps, Write-back: 1200 Mbps	Write-through: 900 Mbps, Write-back: 1200 Mbps	Write-through: 900 Mbps, Write-back: 1200 Mbps	Write-through: 900 Mbps, Write-back: 1200 Mbps
Recording Management	Video compression	H.265+, H.265, H.264+, H.264, MJPEG	H.265+, H.265, H.264+, H.264, MJPEG	H.265+, H.265, H.264+, H.264, MJPEG	H.265+, H.265, H.264+, H.264, MJPEG	H.265+, H.265, H.264+, H.264, MJPEG
	Record mode	Manual, Schedule, Motion Detection, Alarm	Manual, Schedule, Motion Detection, Alarm	Manual, Schedule, Motion Detection, Alarm	Manual, Schedule, Motion Detection, Alarm	Manual, Schedule, Motion Detection, Alarm
Storage Management	Video protection	ANR, Lock key video	ANR, Lock key video	N+M cluster service, ANR, Lock key video	N+M cluster service, ANR, Lock key video	N+M cluster service, ANR, Lock key video
HDD	HDD slot	48	24	48	36	24
	HDD type	SAS HDD, Up to 16 TB for each HDD	SAS HDD, Up to 16 TB for each HDD	SATA/SAS HDD, Up to 16 TB for each HDD	SATA/SAS HDD, Up to 16 TB for each HDD	SATA/SAS HDD, Up to 16 TB for each HDD
	RAID	RAID 0/1/5/6/10/50/60, JBOD, Hot Spare	RAID 0/1/5/6/10/50/60, JBOD, Hot Spare	RAID 0/1/5/6/10/50/60, JBOD, Hot Spare	RAID 0/1/5/6/10/50/60, JBOD, Hot Spare	RAID 0/1/5/6/10/50/60, JBOD, Hot Spare
Network	Network mode	Multi-address, Fault-tolerance, Load Balance, Link Aggregation	Multi-address, Fault-tolerance, Load Balance, Link Aggregation	Multi-address, Fault-tolerance, Load Balance, Link Aggregation	Multi-address, Fault-tolerance, Load Balance, Link Aggregation	Multi-address, Fault-tolerance, Load Balance, Link Aggregation
External Interface	Ethernet port	1 Gigabit management port for each controller 4 Gigabit data ports for each controller	1 Gigabit management port for each controller 4 Gigabit data ports for each controller	1 Gigabit management port 4 Gigabit data ports	1 Gigabit management port 4 Gigabit data ports	1 Gigabit management port 4 Gigabit data ports
	Network extension	2x10-Gigabit optical fiber ports for each controller (Optional)	2x10-Gigabit optical fiber ports for each controller (Optional)	2x10-Gigabit optical fiber ports (Optional)	2x10-Gigabit optical fiber ports (Optional)	2x10-Gigabit optical fiber ports (Optional)
	Mini SAS port	2 ports for each controller	2 ports for each controller	2 ports	2 ports	2 ports
General	Power supply	Redundant	Redundant	Redundant	Redundant	Redundant
	Chassis	6U (Standard 19 inch rack)	4U (Standard 19 inch rack)	6U (Standard 19 inch rack)	4U (Standard 19 inch rack)	4U (Standard 19 inch rack)

# EMBEDDED VIDEO STORAGE

## EVS Series

EMBEDDED VIDEO STORAGE

	Model	EVS5048S-R	EVS5036S-R	EVS5024S-R	EVS5016S-R
	Appearance				
System	Main Processor	Single Controller (64-bit multi-core processor)	Single Controller (64-bit multi-core processor)	Single Controller (64-bit multi-core processor)	Single Controller (64-bit multi-core processor)
	Operation System	Embedded Linux	Embedded Linux	Embedded Linux	Embedded Linux
	Memory	4 GB	4 GB	4 GB	4 GB
Performance	Video Direct Storage (Private Protocol)	320-channel (640Mbps) access and storage 160-channel (320Mbps) forwarding	320-channel (640Mbps) access and storage 160-channel (320Mbps) forwarding	320-channel (640Mbps) access and storage 160-channel (320Mbps) forwarding	320-channel (640Mbps) access and storage 160-channel (320Mbps) forwarding
	Video Direct Storage (ONVIF Protocol)	200-channel (400Mbps) access and storage 50-channel (100Mbps) forwarding	200-channel (400Mbps) access and storage 50-channel (100Mbps) forwarding	200-channel (400Mbps) access and storage 50-channel (100Mbps) forwarding	200-channel (400Mbps) access and storage 50-channel (100Mbps) forwarding
	Video Direct Storage (Auto Register)	200-channel (400Mbps) access and storage 50-channel (100Mbps) forwarding	200-channel (400Mbps) access and storage 50-channel (100Mbps) forwarding	200-channel (400Mbps) access and storage 50-channel (100Mbps) forwarding	200-channel (400Mbps) access and storage 50-channel (100Mbps) forwarding
	IPSAN Mode	Write-through: 320 Mbps, Write-back: 480 Mbps	Write-through: 320 Mbps, Write-back: 480 Mbps	Write-through: 320 Mbps, Write-back: 480 Mbps	Write-through: 320 Mbps, Write-back: 480 Mbps
Recording Management	Video Compression	H.265+, H.265, H.264+, H.264, MJPEG	H.265+, H.265, H.264+, H.264, MJPEG	H.265+, H.265, H.264+, H.264, MJPEG	H.265+, H.265, H.264+, H.264, MJPEG
	Record Mode	Manual, Schedule, Motion Detection, Alarm	Manual, Schedule, Motion Detection, Alarm	Manual, Schedule, Motion Detection, Alarm	Manual, Schedule, Motion Detection, Alarm
Storage Management	Video Protection	N+M cluster service, ANR, Lock key video	N+M cluster service, ANR, Lock key video	N+M cluster service, ANR, Lock key video	N+M cluster service, ANR, Lock key video
HDD	HDD Slot	48	36	24	16
	HDD Type	SATA HDD, Up to 10 TB for each HDD	SATA HDD, Up to 10 TB for each HDD	SATA HDD, Up to 10 TB for each HDD	SATA HDD, Up to 10 TB for each HDD
	RAID	RAID 0/1/5/6/10/50/60, JBOD, Hot Spare	RAID 0/1/5/6/10/50/60, JBOD, Hot Spare	RAID 0/1/5/6/10/50/60, JBOD, Hot Spare	RAID 0/1/5/6/10/50/60, JBOD, Hot Spare
Network	Network Mode	Multi-address, Fault-tolerance, Load Balance, Link Aggregation	Multi-address, Fault-tolerance, Load Balance, Link Aggregation	Multi-address, Fault-tolerance, Load Balance, Link Aggregation	Multi-address, Fault-tolerance, Load Balance, Link Aggregation
External Interface	Ethernet Port	1 Gigabit management port 4 Gigabit data ports	1 Gigabit management port 4 Gigabit data ports	1 Gigabit management port 4 Gigabit data ports	2 Gigabit data ports
	Network Extension	2×10-Gigabit optical fiber ports (Optional)	2×10-Gigabit optical fiber ports (Optional)	2×10-Gigabit optical fiber ports (Optional)	N/A
	Mini SAS Port	2 ports	2 ports	2 ports	1 port
General	Power Supply	Redundant	Redundant	Redundant	Redundant
	Chassis	8U (Standard 19 inch rack)	4U (Standard 19 inch rack)	4U (Standard 19 inch rack)	3U (Standard 19 inch rack)



# NETWORK THERMAL CAMERAS



# Security

Dahua thermal security series camera integrates thermal imaging technology, visible light technology and AI technology to provide all-weather monitoring with high security level. It's an extremely versatile solution for critical infrastructure protection, forest fire prevention, border security, etc. It can be used even in total darkness or harsh weather conditions, providing a wide range of products for users in various industries.



## Long Range Detection Capability

The Dahua leading thermal imaging technology has ultra long range detection capability that can spot vehicles (up to 20 km) and human targets (up to 8 km) with fine details.



## Advanced Fire Detection

Dual-channel monitoring allows thermal cameras to early detect the source of fire, and visibly track it in the system.



## Excellent Environmental Adaptability

Dahua thermal camera can convert the thermal radiation into a visible image even in harsh environments including no-light, backlight, haze and so on.







## AI Function Integration

It is equipped with built-in deep learning algorithms and better AI hardware performance in order to meet different business requirements.







# NETWORK THERMAL CAMERAS

## 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) x512 (V)		400 (H) x300 (V)		640 (H) x512 (V)		400 (H) x300 (V)	
	Sensitivity	<40mK		<40mK		<40mK		<40mK	
	Lens	100mm		100mm		100mm		100mm	
		20mm~100mm (Optional) 30mm~150mm (Optional) 38mm~190mm (Optional) H: 6.2°		20mm~100mm (Optional) 30mm~150mm (Optional) 38mm~190mm (Optional) H: 3.9°		20mm~100mm (Optional) 30mm~150mm (Optional) 38mm~190mm (Optional) H: 6.2°		20mm~100mm (Optional) 30mm~150mm (Optional) 38mm~190mm (Optional) H: 3.9°	
FOV-H	H: 31.6° ~ 6.2° (Optional) H: 20.6° ~ 4.2° (Optional) H: 16.7° ~ 3.5° (Optional)		H: 19.3° ~ 3.9° (Optional) H: 12.9° ~ 2.6° (Optional) H: 10.2° ~ 2.1° (Optional)		H: 31.6° ~ 6.2° (Optional) H: 20.6° ~ 4.2° (Optional) H: 16.7° ~ 3.5° (Optional)		H: 19.3° ~ 3.9° (Optional) H: 12.9° ~ 2.6° (Optional) H: 10.2° ~ 2.1° (Optional)		
Visible	Image Sensor	1/2.8" 2M CMOS	1/1.9" 2M CMOS	1/2.8" 2M CMOS	1/1.9" 2M CMOS	1/2.8" 2M CMOS	1/1.9" 2M CMOS	1/2.8" 2M CMOS	1/1.9" 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°~1.10°	H: 23.5°~1.0° (Optional) H: 31.29°~0.32° (Optional) H: 20.51°~0.22° (Optional)	H: 42.34° ~ 1.10°	H: 23.5°~1.0° (Optional) H: 31.29°~0.32° (Optional) H: 20.51°~0.22° (Optional)	H: 42.34°~1.10°	H: 23.5°~1.0° (Optional) H: 31.29°~0.32° (Optional) H: 20.51°~0.22° (Optional)	H: 42.34°~1.10°	H: 23.5°~1.0° (Optional) H: 31.29°~0.32° (Optional) H: 20.51°~0.22° (Optional)
	Min. Illumination	0.016Lux@F1.5 (Color) 0.0175Lux@F1.5 (B/W)	0.002Lux@F1.5 (Color) 0.0005Lux@F1.5 (B/W)	0.016Lux@F1.5 (Color) 0.0175Lux@F1.5 (B/W)	0.002Lux@F1.5 (Color) 0.0005Lux@F1.5 (B/W)	0.016Lux@F1.5 (Color) 0.0175Lux@F1.5 (B/W)	0.002Lux@F1.5 (Color) 0.0005Lux@F1.5 (B/W)	0.016Lux@F1.5 (Color) 0.0175Lux@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.265/H.264/MJPEG		H.265/H.264/MJPEG		H.265/H.264/MJPEG		H.265/H.264/MJPEG	
	Frame Rate	Thermal: 1280x1024/720P/640x512 @25/30fps Visible: 1080P/720P/D1 @25/30fps		Thermal: 1280x1024/720P/400x300 @25/30fps Visible: 1080P/720P/D1 @25/30fps		Thermal: 1280x1024/720P/640x512 @25/30fps Visible: 1080P/720P/D1 @25/30fps		Thermal: 1280x1024/720P/400x300 @25/30fps Visible: 1080P/720P/D1 @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	
	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	TPC-SD8421	TPC-BF8621	TPC-BF8421
Appearance		 <b>Wiz Mind</b>	 <b>Wiz Mind</b>	 <b>Wiz Mind</b>	 <b>Wiz Mind</b>		
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)×512 (V)	400 (H)×300 (V)	640 (H)×512 (V)	400 (H)×300 (V)	640 (H)×512 (V)	400 (H)×300 (V)
	Sensitivity	<40mK	<40mK	<40mK	<40mK	<40mK	<40mK
	Lens	35mm/50mm/75mm/100mm	35mm/50mm/75mm/100mm	25mm/35mm/50mm	25mm/35mm/50mm	25mm; 35mm; 50mm; 75mm; 100mm	25mm; 35mm; 50mm; 75mm; 100mm
	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: 15.5°/10.9°/7.7°	H: 24.6°/17.6°/12.4°/8.3°/6.2°	H: 15.5°/11.1°/7.8°/5.2°/3.9°
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: 1280x1024/720P/640x512 @25/30fps Visible: 1080P/720P/D1 @25/30fps	Thermal: 1280x1024/720P/400x300 @25/30fps Visible: 1080P/720P/D1 @25/30fps	Thermal: 1280x1024/720P/640x512 @25/30fps Visible: 1080P/720P/D1 @25/30fps	Thermal: 1280x1024/720P/400x300 @25/30fps Visible: 1080P/720P/D1 @25/30fps	Thermal: 1280x1024/720P/640x512 @25/30fps Visible: 1080P/720P/D1 @25/30fps	Thermal: 1280x1024/720P/400x300 @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°	--	--
	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, 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	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	ONVIF Profile S & G, API	ONVIF Profile S&G, API
	Ingress Protection	IP66	IP66	IP66	IP66	IP67	IP67
	Working Temperature	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +60°C	-40°C ~ +60°C	-40°C ~ +70°C	-40°C ~ +70°C
	Power	AC24V, <65W	AC24V, <65W	AC24V, <38W	AC24V, <38W	AC12V/PoE+, <16W	AC12V/PoE+, <16W

NETWORK THERMAL CAMERAS

# NETWORK THERMAL CAMERAS

## Pro Series

	Model	TPC-BF5601	TPC-BF5401
	Appearance		 
Thermal	Image Sensor	Uncooled VOx Microbolometer	Uncooled VOx Microbolometer
	Effective Pixels	640(H) × 512(V)	400(H) × 300(V)
	Sensitivity	<40mK	<40mK
	Lens	7.5mm/13mm/25mm/35mm	7.5mm/13mm/25mm/35mm
	FOV-H	H: 91.2°/48.9°/24.6°/17.6°	H: 53.7°/30.2°/15.5°/11.1°
General	Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG
	Frame Rate	Thermal: 1280x1024/720P/640x512 @ 25/30fps	Thermal: 1280x1024/720P/400x300 @ 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
	Compatibility	ONVIF Profile S & G, API	ONVIF Profile S & G, API
	Ingress Protection	IP67	IP67
	Working Temperature	-40°C ~ +70°C	-40°C ~ +70°C
	Power	DC12V/PoE/ePoE, <13W	DC12V/PoE/ePoE, <13W





# 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)×512 (V)	400 (H)×300 (V)	640 (H)×512 (V)	400 (H)×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)×512 (V)	400 (H)×300 (V)	640 (H)×512 (V)	400 (H)×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	



# Thermography

Dahua adopts high precision sensor and advanced temperature measurement algorithm, which can realize high precision and wide range temperature measurement. In addition, a variety of temperature measurement rules are supported to meet the needs of end users for different scenarios.



## Industrial Temperature Measurement

Industrial temperature measurement distance is as far as 50 meters, which meets the requirements for 24/7 real-time monitoring of multiple devices.



## Body Temperature Measurement

This non-contact body temperature measurement offers quick screening, wide coverage and multi-person detection. The accuracy can reach up to  $\pm 0.3$  °C with the blackbody.





## High Accuracy

Aside from its  $\pm 0.3$  °C body temperature measurement accuracy, its industrial temperature measurement accuracy can reach up to  $\pm 2$  °C.



# NETWORK THERMAL CAMERAS

## Ultra Series

	Model	DH-TPC-PT8621A-T	DH-TPC-PT8421A-T	DH-TPC-SD8621-T	DH-TPC-SD8421-T	DH-TPC-BF5601-T	DH-TPC-BF5401-T	
Appearance		 <b>Wiz Mind</b>	 <b>Wiz Mind</b>	 <b>Wiz Mind</b>	 <b>Wiz Mind</b>	 <b>ePoE</b>	 <b>ePoE</b> <b>DHOP</b>	
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)×512 (V)	400 (H)×300 (V)	640 (H)×512 (V)	400 (H)×300 (V)	640 (H)×512 (V)	400 (H)×300 (V)	
	Sensitivity	<40mK	<40mK	<40mK	<40mK	<40mK	<40mK	
	Lens	35mm/50mm/75mm/100mm	35mm/50mm/75mm/100mm	25mm/35mm/50mm	25mm/35mm/50mm	7.5mm/13mm/25mm	7.5mm/13mm/25mm	
	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: 15.5°/10.9°/7.7°	H: 91.2°/48.9°/24.6°	H: 53.7°/30.2°/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)	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	Spot: 12/Line: 12/Area: 12 Support 12 rules simultaneously	Spot: 12/Line: 12/Area: 12 Support 12 rules simultaneously	
Temperature Alarm	Supported	Supported	Supported	Supported	Supported	Supported		
Visible	Image Sensor	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	--	--	
	FOV-H	H: 42.34° ~ 1.10°	H: 42.34° ~ 1.10°	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)	--	--	
	IR Distance	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: 1280x1024/720P/640x512 @25/30fps Visible: 1080P/720P/D1 @25/30fps	Thermal: 1280x1024/720P/400x300 @25/30fps Visible: 1080P/720P/D1 @25/30fps	Thermal: 1280x1024/720P/640x512 @25/30fps Visible: 1080P/720P/D1 @25/30fps	Thermal: 1280x1024/720P/400x300 @25/30fps Visible: 1080P/720P/D1 @25/30fps	Thermal: 1280*1024/720P/640*512 @25/30fps	Thermal: 1280*1024/720P/400*300 @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°	--	--	
	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, 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	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	ONVIF Profile S&G, API	ONVIF Profile S&G, API	
	Ingress Protection	IP66	IP66	IP66	IP66	IP67	IP67	
	Working Temperature	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +60°C	-40°C ~ +60°C	-40°C ~ +70°C	-40°C ~ +70°C	
Power	AC24V, <65W	AC24V, <65W	AC24V, <38W	AC24V, <38W	DC12V/PoE/ePoE, <13W	DC12V/PoE/ePoE, <13W		

# INTELLIGENT TRANSPORTATION CAMERAS





# Intelligent Transportation Camera

The intelligent transportation camera series is designed for special industries with the highest quality and requirements. High-performance AI processor and deep learning algorithms allow the camera to detect and extract detailed information of any types of vehicles, providing reliable data source for business decision making. Its integrated design is suitable for various harsh environments and all-weather conditions.



## Enforcement Cameras

With industry-specific image sensor, high-performance AI processor, and deep learning algorithm, the enforcement camera is ideal for intelligent traffic management and safe city businesses, offering intelligent functions including traffic violations capturing in both ANPR and violation snapshots, passing vehicle records, traffic data collection, event detection, etc.



## Access ANPR Cameras

Access ANPR cameras are designed for license plate monitoring in low-speed scenarios, such as parking lots and gas stations. It is suitable for vehicle entrance & exit management as it has a allowlist 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 kinds of environment.



## Parking Spot Detectors

Parking space detector is suitable for indoor parking areas. The parking detector can provide comprehensive video surveillance in parking lots, accurately monitoring up to 6 parking spaces status and recognizing plate numbers of vehicles at the same time. In addition, a 7-color indicator can be used to guide vehicles in finding available parking spaces.

# INTELLIGENT TRANSPORTATION CAMERAS

## Enforcement Cameras

Model	ITC352-AU3F-(IR)L	ITC952-AU3F-(IR)L	ITC431-RW1F-(IR)L	ITC831-RW1F-(IR)L
Appearance				
Image Sensor	1/1.8" GS-CMOS	1" GS-CMOS	1/1.8" CMOS	1/1.2" CMOS
Max. Resolution	3 MP, 2048 (H)×1536 (V)	9 MP, 4096 (H)×2160 (V)	4 MP, 2688 (H)×1520 (V)	8 MP, 3840 (H)×2160 (V)
Speed Range for LPR	0~200km/h	0~200km/h	0~120km/h	0~120km/h
Lincese Plate Recognition	Support(Global)	Support(Global)	Support(Global)	Support(Global)
Day/Night	ICR	ICR	ICR	ICR
Lens	16~40mm Motorized/ Auto Iris(DC)	16~40mm Motorized/ Auto Iris(DC)	10.5~42mm Motorized/ Auto Iris(DC)	10.5~42mm Motorized/ Auto Iris(DC)
LPR Monitor Distance	18~25M	18~25M	15~30M	15~30M
WDR	64dB	64dB	90dB	90dB
Electronic Shutter Speed	1/50~1/10000s	1/50~1/10000s	1/50~1/10000s	1/50~1/10000s
Detection Mode	Supports Video detection or radar detection	Supports Video detection or radar detection	Supports Video detection or radar detection	Supports Video detection or radar detection
Video Compression	H.265/H.264M/H.264H/H.264B/MJPEG	H.265/H.264M/H.264H/H.264B/MJPEG	H.265/H.264M/H.264H/H.264B/MJPEG	H.265/H.264M/H.264H/H.264B/MJPEG
Max. Resolution	2048×1536	4096×2820	2688×1520	3840×2160
Frame Rate	1536×2048@25fps, 1600×1200@25fps	4096×2820@25fps, 1600×1200@25fps	2688×1520@25fps, 1600×1200@25fps	3840×2160@25fps, 1600×1200@25fps
Lamp	White /IR light	White /IR light	White /IR light	White /IR light
Ingress Protection	IP66	IP66	IP66	IP66
Interface	2 ×100/1000M Ethernet, 2 RS485, 4 RS232 4/2 channel Alarm In/Out	2 ×100/1000M Ethernet, 2 RS485, 4 RS232 4/2 channel Alarm In/Out	1 ×100/1000M Ethernet, 3 RS485, 2 RS232 3/2 channel Alarm In/Out	1 ×100/1000M Ethernet, 3 RS485, 2 RS232 3/2 channel Alarm In/Out
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Working Temperature	-40°C to +65°C (-40°F~+149°F)	-40°C to +65°C (-40°F~+149°F)	-40°C to +65°C (-40°F~+149°F)	-40°C to +65°C (-40°F~+149°F)
Power	AC110~220V, Max. 30W	AC110~220V, Max. 30W	DC12V~36V, PoE (802.3af), Max. 8W	DC12V~36V, PoE (802.3af), Max. 8W






# INTELLIGENT TRANSPORTATION CAMERAS

## Access ANPR Cameras

Model	ITC215-PW6M-(IR)LZF	ITC215-PW6M-(IR)LZF-B	ITC215-PW6M-(IR)LZF-O	ITC237-PW6M-(IR)LZF1050	ITC237-PW6M-(IR)LZF1050-B	IPMECS-2201C-(IR)
Appearance						
Bracket	Without	With Bracket	With Pole Mount	Without	With Bracket	With Pole
Image Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/1.8" CMOS	1/1.8" CMOS	1/2.7 inch CMOS
Max. Resolution	2MP (1920x1080)	2MP (1920x1080)	2MP (1920x1080)	2MP (1920x1080)	2MP (1920x1080)	2MP (1920x1080)
Speed Range for LPR	0~60km/h	0~60km/h	0~60km/h	0~80km/h	0~80km/h	0~60km/h
Lincese Plate Recognition	Support (Global)	Support (Global)	Support (Global)	Support (Global)	Support (Global)	Support (Global)
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:-	IR : Auto(ICR) / Color / B/W White:-	IR : Auto(ICR) / Color / B/W White:-
Lens	3.2mm~10.5mm Motorized/ Auto Iris (DC)	3.2mm~10.5mm Motorized/ Auto Iris (DC)	3.2mm~10.5mm Motorized/ Auto Iris (DC)	10mm~50mm Motorized/ Auto Iris (DC)	10mm~50mm Motorized/ Auto Iris (DC)	3.2mm~10.5mm Motorized/ Auto Iris (DC)
LPR Monitor Distance	Up to 12M	Up to 12M	Up to 12M	Up to 30M	Up to 30M	Up to 12M
Detection Mode	Loop&Video trigger	Loop&Video trigger	Loop&Video trigger	Video trigger	Video trigger	Video trigger
Electronic Shutter Speed	1/50~1/10000s	1/50~1/10000s	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	H.264B/H.264M/H.264H/H.265/ MJPEG	H.265/H.264M/H.264H/H.264B
Max. Resolution	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: 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)
Lamp	Built-in IR/White light	Built-in IR/White light	Built-in IR/White light	Built-in IR/White light	Built-in IR/White light	Built-in IR/White light
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP54
Interface	1 x100/1000M Ethernet, 2 I/O inputs, 2 RS485 3/3 channel Alarm In/Out	1 x100/1000M Ethernet, 2 I/O inputs, 2 RS485 3/3 channel Alarm In/Out	1 x100/1000M Ethernet, 2 I/O inputs, 2 RS485 3/3 channel Alarm In/Out	1 x100/1000M Ethernet, 2 I/O inputs, 2 RS485 3/3 channel Alarm In/Out	1 x100/1000M Ethernet, 2 I/O inputs, 2 RS485 3/3 channel Alarm In/Out	1 x100/1000M Ethernet, 2 I/O inputs, 1 RS485 3/3 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)	-30°C~+65°C (-22°F~+149°F)	-30°C~+65°C (-22°F~+149°F)
Power	DC12V, PoE +(802.3at)	DC12V, PoE +(802.4at)	DC12V, PoE +(802.5at)	DC12V, AC24V, PoE	DC12V, AC25V, PoE	AC 100V-230V ; 50hz/60hz

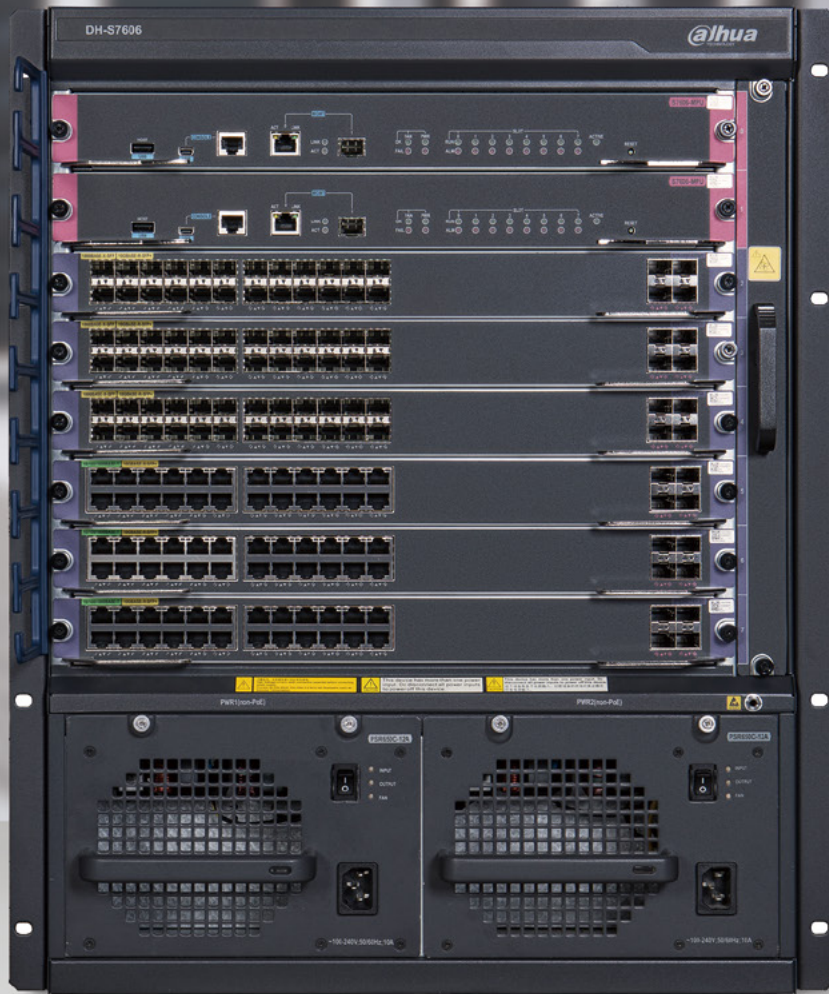
# INTELLIGENT TRANSPORTATION CAMERAS

## Parking Spot Detectors

Model	ITC214-PH3A-F3-PON	ITC214-PH3A-F6-PON	ITC314-PH3A-F2-PON	ITC314-PH3A-F3-PON	ITC314-PH3A-TF2-PON	ITC314-PH3A-TF3-PON
Appearance						
Image Sensor	1/2.8 inch 2MP CMOS	1/2.8 inch 2MP CMOS	1/2.8 inch 3MP CMOS	1/2.8 inch 3MP CMOS	Two 1/2.8 inch 3MP CMOS	Two 1/2.8 inch 3MP CMOS
Focal Length	3.6mm	6mm	2.8mm	3.6mm	2.8mm	3.6mm
Max. Resolution	2MP (1920×1080)	2MP (1920×1080)	3 MP, (2048 ×1536)	3 MP, (2048 ×1536)	3 MP, (2048 ×1536)	3 MP, (2048 ×1536)
Day/Night	Electronic color to B/W	Electronic color to B/W	Electronic color to B/W	Electronic color to B/W	Electronic color to B/W	Electronic color to B/W
WDR	Support	Support	Support	Support	Support	Support
Lincese Plate Recognition	Support	Support	Support	Support	Support	Support
Video Compression	H.264	H.264	H.264	H.264	H.264	H.264
Max. Resolution	1920 ×1080	1920 ×1080	2048 ×1536	2048 ×1536	2048 ×1536	2048 ×1536
Frame Rate	25fps	25fps	20fps	20fps	20fps	20fps
Multi-streaming	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: 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)
LPR Monitor Distance	6~6.8m	3m~4.7m	3.6~5.2m	2.5~3.5m	3.6~5.2m	2.5~3.5m
Detection Mode	Video detection	Video detection	Video detection	Video detection	Video detection	Video detection
Electronic Shutter Speed	Auto/manual, 1/3~1/10000s	Auto/manual, 1/3~1/10000s	Auto/manual, 1/3~1/10000s	Auto/manual, 1/3~1/10000s	Auto/manual, 1/3~1/10000s	Auto/manual, 1/3~1/10000s
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.265/H.264M/H.264H/H.264B	H.265/H.264M/H.264H/H.264B	H.265/H.264M/H.264H/H.264B
Video Frame	Each channel supports 1~25fps	Each channel supports 1~25fps	Each channel supports 1~20fps	Each channel supports 1~20fps	Each channel supports 1~20fps	Each channel supports 1~20fps
Interface	2 ×10/100M Ethernet, 1 RS485	2 ×10/100M Ethernet, 1 RS485	2 ×10/100M Ethernet, 1 RS485	2 ×10/100M Ethernet, 1 RS485	2 ×10/100M Ethernet, 1 RS485	2 ×10/100M Ethernet, 1 RS485
Ingress Protection	IP50	IP50	IP50	IP50	IP50	IP50
Working Temperature	-20° C ~ +50° C	-20° C ~ +50° C	-20° C ~ +50° C	-20° C ~ +50° C	-20° C ~ +50° C	-20° C ~ +50° C
Power	DC 12~48V Support PvE power supply	DC 12~48V Support PvE power supply	DC 12~48V Support PvE power supply	DC 12~48V Support PvE power supply	DC 12~48V Support PvE power supply	DC 12~48V Support PvE power supply

INTELLIGENT TRANSPORTATION CAMERAS

# TRANSMISSION





# Transmission

Dahua has a complete product lineup and mature network solution design capabilities in networking. From wired to wireless, it can provide different products and solutions for various applications such as safe cities, enterprises, parks, streets, shops, etc. These solutions have been commercially applied in more than 100 countries and regions around the world.



## Wide Working Temperature Design

The Dahua industrial PoE switch can function normally in a wide range of extreme temperatures from -40 to 75°C.



## High Speed and Bandwidth

Dahua aggregation and core switches offer high bandwidth and are available in a wide range of port configurations including 1G, 10G, and 40G.



## High Availability

Dual power redundancy, ring network and three-plane security assurance mechanisms IRF2 guarantee the reliability of the network.










## Unified Management

Dahua iLinksView network management platform greatly simplifies network operation and maintenance in CCTV network.




# TRANSMISSION

## PoE Switches

	Industrial PoE Switch					All-Gigabit PoE Switch	
Model	PFS4204-2GT-DP	PFS4207-4GT-DP	PFS4210-8GT-DP	PFS4410-6GT-DP	PFS4420-16GT-DP	PFS4210-8GT-150	PFS4212-8GT-96
Appearance							
Fast/Gigabit Ethernet	2GE PoE	4GE PoE+1GE	8GE PoE	6GE PoE	16GE PoE	8GE PoE	8GE PoE+2GE
SFP Slots	2GE SFP	2GE SFP	2GE SFP	4GE SFP	4GE SFP	2GE SFP	2 GE SFP
Switching Capacity	14Gbps	14Gbps	28Gbps	28Gbps	54Gbps	20Gbps	52Gbps
Packet Forwarding Rate	5.95Mpps	10.42Mpps	14.88Mpps	14.88Mpps	28.28Mpps	14.88Mpps	17.856 Mpps
Packet Buffer Memory	1.75Mb	1.75Mb	4Mb	4Mb	4Mb	4.1Mb	4Mb
MAC Table Size	4K	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), 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 Budget	≤120W	≤120W	≤120W	≤120W	≤240W	150W	96W
Long Distance PoE Transmission	--	--	--	--	--	--	--
VLAN	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Link Aggregation	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Flow Control	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Spanning Tree	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Management	Web	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 6KV Differential Mode 4KV	Common Mode 6KV Differential Mode 4KV	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)	-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)
Dimensions(WxDxH)	103mm×135mm×53mm (4.1"×5.3"×2.1")	103mm×135mm×53mm (4.1"×5.3"×2.1")	175mm×134mm×53mm (6.9"×5.3"×2.1")	175mm×134mm×53mm (6.9"×5.3"×2.1")	175mm×134mm×75mm (6.9"×5.3"×3")	340mm ×200mm ×44mm (13.4"×7.9"×1.7")	220mm × 135mm × 30mm (8.67"×5.31"×1.18")

## PoE Switches



	All-Gigabit PoE Switch				ePoE Switch		
Model	PFS4218-16GT-190/240	PFS4226-24GT-240/360	PFS4420-16GT-240	PFS4428-24GT-370	LR2110-8ET-120	LR2218-16ET-240	LR2226-24ET-360
Appearance							
Fast/Gigabit Ethernet	16GE PoE	24GE PoE	16GE PoE	24GE PoE	8FE ePoE+1GE	8FE ePoE+8FE PoE+2GE (Combo)	8FE ePoE+16FE PoE+2GE (Combo)
SFP Slots	2GE SFP	2GE SFP	4GE SFP	4GE SFP	1GE SFP	2GE SFP (Combo)	2GE SFP (Combo)
Switching Capacity	52Gbps	52Gbps	40Gbps	56Gbps	8.8Gbps	8.8Gbps	8.8Gbps
Packet Forwarding Rate	23.81Mpps	38.688Mpps	29.76Mpps	41.66Mpps	4.17Mpps	5.36Mpps	6.55Mpps
Packet Buffer Memory	4Mb	4Mb	4.1Mb	4.1Mb	2.75Mb	2.75Mb	2.75Mb
MAC Table Size	8K	8K	8K	8K	4K	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)	PoE (802.3af) PoE+ (802.3at)	PoE (802.3af) PoE+ (802.4at), Hi-PoE	PoE (802.3af) PoE+ (802.5at), Hi-PoE	PoE (802.3af) PoE+ (802.6at), Hi-PoE
PoE Budget	190W/240W	240W/360W	240W	370W	120W	240W	360W
Long Distance PoE Transmission	--	--	--	--	Yes (800 meters)	Yes (800 meters)	Yes (800 meters)
VLAN	Supported	Supported	Supported	Supported	--	Supported	Supported
Link Aggregation	Supported	Supported	Supported	Supported	--	Supported	Supported
Flow Control	Supported	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 2KV Differential Mode 1KV	Common Mode 2KV Differential Mode 1KV	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	-10°C~+55°C (14°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)	-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×300mm×44mm (17.3"×11.8"×1.7")	440mm×300mm×44mm (17.3"×11.8"×1.7")	440mm x330mm x44mm (17.3"×13.0"×1.7")	440mm x330mm x44mm (17.3"×13.0"×1.7")	150mm×100mm×42mm (5.9"×3.9"×1.7")	440mm×300mm×44mm (17.3"×11.8"×1.7")	440mm×300mm×44mm (17.3"×11.8"×1.7")

# TRANSMISSION

## Aggregation Switch

### L2+ Switch





Model	PFS5424-24T	PFS5428-24GT	PFS5936-24GF8GT4XF	PFS5924-24X	S5500-24GF4XF	S5500-48GT4GF-AC	S5500-48GT4XF
Appearance							
Fast/Gigabit Ethernet	20GE+4GE (Combo)	24GE	8GE	8GE (Combo)	8GE (Combo)	48GE	48GE
SFP Slots	4GE SFP (Combo)	4x10G SFP+	24GE SFP+4x10G SFP+	16GE SFP+8GE SFP (Combo)	16GE SFP+8GE SFP (Combo)+4x10G SFP+	4GE SFP	4x10G SFP+
Switching Capacity	350Gbps	128Gbps	221Gbps	350Gbps	256Gbps	256Gbps	256Gbps
Packet Forwarding Rate	36Mpps	96Mpps	107Mpps	36Mpps	96Mpps	78Mpps	132Mpps
VLAN	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Link Aggregation	Supported	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	Flow Control, Speed Limit, Port Mirroring	Port Mirroring	Port Mirroring
Ring Network Protocol	STP, RSTP, ERPS	STP, RSTP, ERPS	STP, RSTP, MSTP, PVST	STP, RSTP, ERPS	STP, RSTP, MSTP	STP, RSTP, MSTP	STP, RSTP, MSTP
IGMP Snooping	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Static IP Routing	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Dynamic Routing	--	--	--	--	--	--	--
VRRP	--	--	--	--	--	--	--
Management	Web, CLI, SNMP	Web, CLI, SNMP	Web, CLI, SNMP	Web, CLI, SNMP	CLI, SNMP	CLI, SNMP	CLI, SNMP
Working Temperature	-10°C ~ +55°C (14°F ~ +131°F)	-20°C ~ +55°C (-4°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 x285mm x44.5mm (17.3"×11.2"×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")

Core Switch		
	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")


iLinksView Network Management Platform	
	iLinksView Network Management Platform
Model	ILS1000
Appearance	
Interface	2GE + 4USB + 1 HDMI + 1 VGA
Intelligent Analytics	Switch Statistics Port Bandwidth Occupancy Alarm Statistics Switch Run Time
Dynamic View	Device visualization Link visualization Bandwidth visualization Real-time alarm Auto-generated topology
Network Management	Display the detailed information of switches, such as name, mode, SN, IP, MAC and status.
Alarm Message	Support IP conflict alarm, switch status alarm, terminal status alarm, loopback alarm, port congestion alarm
Lightning Protection	Common Mode 8KV Differential Mode 6KV
Working Temperature	-10°C ~ +55°C (14°F ~ +131°F)
Dimensions (WxDxH)	155 mm×135 mm×30 mm (6.10" × 5.31"×1.18")

# TRANSMISSION




## Outdoor Wireless Transmission Device

	5G Wireless CPE			5G Wireless AP		5G Wireless Backhaul	
Model	PFM881	PFM881-L	PFM881E	PFM880	PFM880E	PFM886-15	PFM886-20
Appearance							
Fast/Gigabit Ethernet	2FE	2FE	1GE	1GE	1GE	1GE	1GE
Wireless Standard	IEEE802.11a/n	IEEE802.11a/n	IEEE802.11a/n/ac	IEEE802.11a/n	IEEE802.11a/n/ac	IEEE802.11a/n/ac	IEEE802.11a/n/ac
Working Frequency	5745~5825MHz (extended range: 4920~6100MHz)	5745~5825MHz (extended range: 4920~6100MHz)	5745~5825MHz (extended range: 4920~6100MHz)	5745~5825MHz (extended range: 4920~6100MHz)	5745~5825MHz (extended range: 4920~6100MHz)	5745~5825MHz (extended range: 4920~6100MHz)	5745~5825MHz (extended range: 4920~6100MHz)
Wireless Speed	300Mbps	300Mbps	867Mbps	300Mbps	867Mbps	867Mbps	867Mbps
Transmission Distance	0-3Km (0-9.8Kft)	0-1.5km (0-4.9Kft)	0-3Km (0-9.8Kft)	0-3Km (0-9.8Kft)	0-3Km (0-9.8Kft)	0-15Km (0-49.2Kft)	0-20Km (0-65.6Kft)
Antenna Gain	15dBi	12dBi	18dBi	16dBi	17dBi	23dBi	29dBi
Polarization	Dual Linear: Horizontal 40°, vertical 15°	Dual Linear: Horizontal 35°, vertical 35°	Dual Linear: Horizontal 17°, vertical 17°	Dual Linear: Horizontal 90°, vertical 9°	Dual Linear: Horizontal 90°, vertical 9°	Dual Linear: Horizontal 10°, vertical 10°	Dual Linear: Horizontal 6°, vertical 6°
Tx Power Max	27dBm	24dBm	24dBm	30dBm	27dBm	27dBm	27dBm
Proprietary Protocol	TDMA	TDMA	TDMA	TDMA	TDMA	TDMA	TDMA
Network Security	WPA/WPA2, Hide SSID IP/MAC Filtering	WPA/WPA2, Hide SSID IP/MAC Filtering	WPA/WPA2, Hide SSID IP/MAC Filtering	WPA/WPA2, Hide SSID IP/MAC Filtering	WPA/WPA2, Hide SSID IP/MAC Filtering	WPA/WPA2, Hide SSID IP/MAC Filtering	WPA/WPA2, Hide SSID IP/MAC Filtering
Management	Web	Web	Web	Web	Web	Web	Web
Lightning Protection	--	--	--	Common Mode 4KV Differential Mode 1.5KV	Common Mode 4KV Differential Mode 1.9KV	Common Mode 4KV Differential Mode 1.5KV	Common Mode 4KV Differential Mode 1.5KV
Ingress Protection	--	--	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)
Dimensions(WxDxH)	270mm×83mm×50mm (10.6"×3.3"×2.0")	140mm×92mm×31.8mm (5.5"×3.6"×1.3")	200mm×200mm×50mm (10.6"×3.3"×2.0")	265mm×265mm×87.5mm (Device) (10.4"×10.4"×3.4") 450mm×140mm×35mm (Antenna) (17.7"×5.5"×1.4")	265mm×265mm×87.5mm (Device) (10.4"×10.4"×3.4") 450mm×166mm×60mm (Antenna) (17.7"×6.5"×2.4")	240mm×ø373mm (ø9.4"×14.7")	265mm×265mm×87.5mm (10.4"×10.4"×3.4") ø520mm (ø20.5")
Power	Passive PoE (24V/0.5A)	Passive PoE (24V/0.5A)	PoE+ (802.3at)	PoE+ (802.3at)	PoE+ (802.3at)	PoE+ (802.3at)	PoE+ (802.3at)




## Outdoor Wireless Transmission Device

4G Router	
Model	WM4700-O
Appearance	
LAN Port	4FE
WAN Port	1FE
Wi-Fi	802.11b/g: Up to 54 Mbps 802.11n: Up to 150 Mbps
Network Mode	Southeast Asia version: B1/B3/B5/B8/B38/B39/B40/B41 Oceania and North American version: B1/B2/B3/B4/B5/B7/B8/B28/B40 European version: B1/B3/B5/B7/B8/B20/B38/B40/B41
Antenna	Cellular: 2 standard SMA female ports with impedance of 50Ω Wi-Fi: 1 standard SMA male port with impedance of 50Ω
WAN Connection Modes	Static IP, DHCP, PPPOE and 4G
SIM/UIM Card Port	1.8V/3V SIM/UIM card
Encryption	WEP, WPA and WPA2
Working Temperature	-35°C ~ +75°C (-31°F~+167°F)
Dimension	207mm×135mm×28mm (8.15"×5.31"×1.10")
Power	DC 12V/1.5A

## Indoor Wireless Transmission Device

2.4G Wireless AP for Elevator		2.4G&5G Wireless Ceiling AP	
Model	PFM885-I	PFM889-I	PFM889-IM
Appearance			
Fast/Gigabit Ethernet	3FE	3FE	2GE
Wireless Standard	IEEE802.11 b/g/n	IEEE802.11 b/g/n	IEEE802.11 a/n/ac; IEEE802.11 b/g/n
Working Frequency	2412~2472Mhz (extended range: 2312~2732Mhz)	2412~2472Mhz (extended range: 2312~2732Mhz)	2.4G: 2412~2472Mhz (extended range: 2312~2732Mhz) 5G: 5745~5825MHZ (extended range: 4920~6100MHZ)
Wireless Speed	300Mbps	300Mbps	2.4G: 300Mbps; 5G: 867Mbps
Transmission Distance	0-500m (0-1640.4ft)	0-150m (0-492ft)	0-150m (0-492ft)
Antenna Gain	6dBi	3dBi	External 2.4G: 3dBi; Internal 5G: 3dBi
Polarization	Dual Linear: Horizontal 65°, vertical 60°	Omni-directional	Omni-directional
Tx Power Max	27dBm	27dBm	27dBm
Proprietary Protocol	--	--	--
Network Security	WPA/WPA2, Hide SSID, IP/MAC Filtering	WPA/WPA2, Hide SSID, IP/MAC Filtering	WPA/WPA2, Hide SSID, IP/MAC Filtering
Management	Web	Web	Web
Lightning Protection	--	--	--
Ingress Protection	IP41	IP41	IP41
Working Temperature	-30°C ~ +70°C (-22°F~+158°F)	-30°C ~ +60°C (-22°F~+140°F)	-30°C ~ +60°C (-22°F~+140°F)
Dimensions(WxDxH)	150mm×150mm×36mm (5.9"×5.9"×1.4")	150mm×150mm×43mm (5.9"×5.9"×1.7")	150mm×150mm×43mm (5.9"×5.9"×1.7")
Power	PoE+ (802.3at)	PoE+ (802.3at)	PoE+ (802.3at)

## DIN Rail Power Supply

EDP-75-48		DRL-48V120W1AAD		EDP-240-48	
Model	EDP-75-48	DRL-48V120W1AAD		EDP-240-48	
Appearance					
Output Power	75W	120W		240W	
Input Voltage Range	90-264Vac	85-264Vac		90-264Vac	
Input Frequency Range	47-63Hz	47-63Hz		47-63Hz	
Output Voltage Range	48~55Vdc	44-56Vdc		48~53Vdc	
Dimensions (LxWxD)	126 mm×34.5 mm×101.5 mm (4.96"×1.36"×4.00 ")	123.6 mm×40 mm×117.6 mm (4.86"×1.57"×4.62 ")		124 mm×62 mm×119 mm (4.88"×2.44"×4.69 ")	

# TRANSMISSION

## Accessories

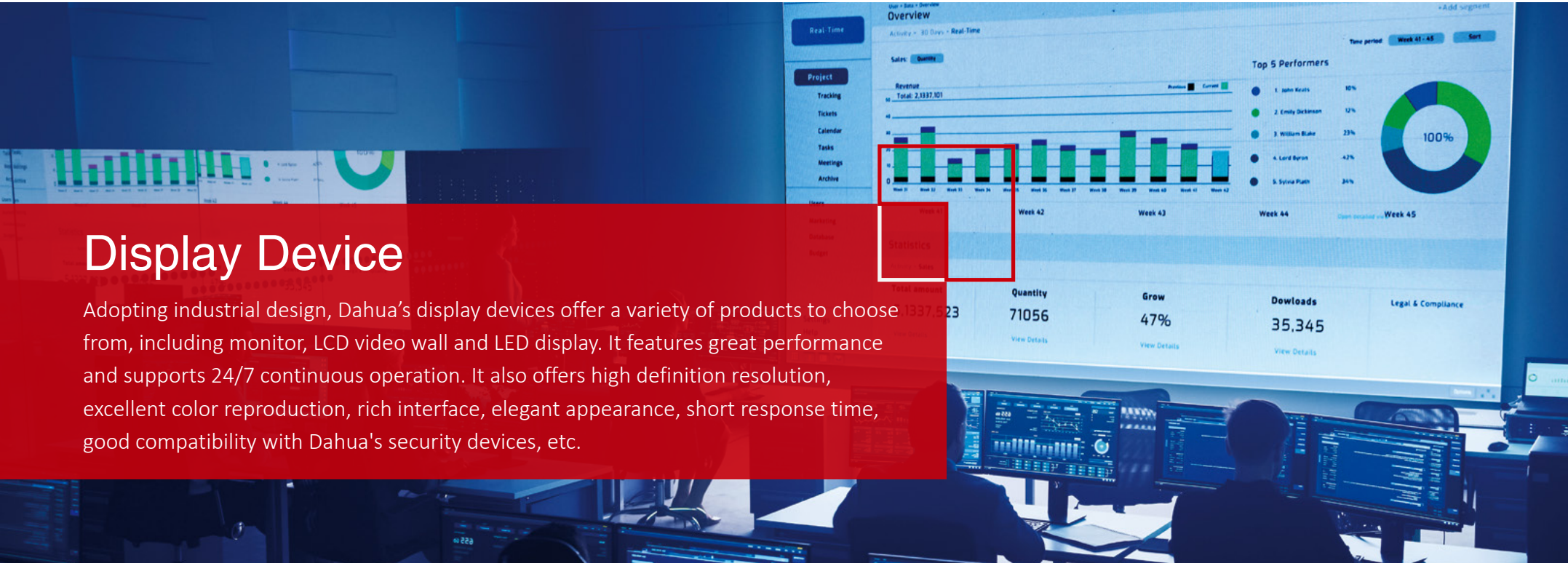
### SFP Module

Model	PFT3910	PFT3920	PFT3960	PFT3970	PFT3900	PFT3950	PFTOTSFP-1270R-20-SMF	PFTOTSFP-1270T-20-SMF	PFTOTSFP-850-MMF
Appearance									
Data Rate	155Mbps	155Mbps	1.25Gbps	1.25Gbps	155Mbps	1.25Gbps	10Gbps	10Gbps	10Gbps
Interface	LC	LC	LC	LC	LC	LC	LC	LC	LC
Transmission Distance	20km	20km	20km	20km	2km	500m	20km	20km	300m
Transmission Medium	Single-mode	Single-mode	Single-mode	Single-mode	Multi-mode	Multi-mode	Single-mode	Single-mode	Multi-mode
Wavelength	1310nm/1550nm	1550/1310nmnm	1310nm/1550nm	1550/1310nmnm	850nm	850nm	1330nm/1270nm	1270nm/1330nm	850nm
Sensitivity	≤-32dBm	≤-32dBm	≤-23dBm	≤-23dBm	≤-25dBm	≤-23dBm	-14.5dBm	-14.5dBm	-11dBm
Operating Voltage	3.3V	3.3V	3.3V	3.3V	3.3V	3.3V	3.3V	3.3V	3.3V
Output Power	-14~-8dBm	-14~-8dBm	-9~-2dBm	-9~-2dBm	-10~-3dBm	-9.5~-3dBm	-3~-2dBm	-3~-2dBm	-6.5~0.5dBm
Working Temperature	-40°C ~ +85°C (-40°F ~ +185°F)	-40°C ~ +85°C (-40°F ~ +185°F)	-40°C ~ +85°C (-40°F ~ +185°F)	-40°C ~ +85°C (-40°F ~ +185°F)	-40°C ~ +85°C (-40°F ~ +185°F)	-40°C ~ +85°C (-40°F ~ +185°F)	-40°C ~ +85°C (-40°F ~ +185°F)	-40°C ~ +85°C (-40°F ~ +185°F)	-40°C ~ +85°C (-40°F ~ +185°F)
Dimensions(WxDxH)	13.7mm×56.5mm ×8.95mm (0.5"×2.2"×0.4")	13.7mm×56.5mm ×8.95mm (0.5"×2.2"×0.4")	13.7mm×56.5mm ×8.95mm (0.5"×2.2"×0.4")	13.7mm×56.5mm ×8.95mm (0.5"×2.2"×0.4")	13.7mm ×56.5mm ×8.95mm (0.5"×2.2"×0.4")	13.7mm ×56.5mm ×8.95mm (0.5"×2.2"×0.4")	13.8mm×56.5mm ×8.45mm (0.5"×2.2"×0.3")	13.8mm×56.5mm ×8.45mm (0.5"×2.2"×0.3")	13.8mm×56.5mm ×8.45mm (0.5"×2.2"×0.3")

# DISPLAY & CONTROL







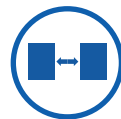
# Display Device

Adopting industrial design, Dahua's display devices offer a variety of products to choose from, including monitor, LCD video wall and LED display. It features great performance and supports 24/7 continuous operation. It also offers high definition resolution, excellent color reproduction, rich interface, elegant appearance, short response time, good compatibility with Dahua's security devices, etc.



## Monitor

- Industrial level LCD panel, for continuous 24h/7 operation
- HD/Ultra-HD resolution
- Rich interface
- Realistic and immersive visual experience



## LCD Video Wall

- Industrial level LCD panel from 46"~65", for continuous 24h/7 operation
- Rich interface
- Extreme narrow bezel, virtually seamless effect
- Fast stacking installation, front and rear two maintenance modes






## Indoor Fine Pitch Series LED Display

- Seamless splicing for any size screen
- High color gamut 12~16 bits brings fantastic visual experience
- Front and rear two maintenance modes for convenient installation





# DISPLAY & CONTROL

## Display

Model	LM55-S400	LM43-S400	DHL32
Appearance			
Screen Size	55"(16:9)	43"(16:9)	31.5"(16:9)
Resolution	3840×2160	3840×2160	1920×1080
Brightness	450cd/m <sup>2</sup>	450cd/m <sup>2</sup>	350cd/m <sup>2</sup>
Contrast Ratio	1000:1	1000:1	1200:1
Viewing Angle	H 178°, V 178°	H 178°, V 178°	H 178°, V 178°
Response Time	6ms	8ms	8ms
Display Color	10bit	10bit	8bit
Input	1 DP, 2 HDMI, 1 VGA(D-Sub), 1 USB, 1 Audio, 1 RJ45(RS232)	1 DP, 2 HDMI, 1 VGA, 1 USB, 1 Audio, 1 RJ45(RS232)	2 BNC(CVBS), 1 VGA, 1 DVI-D, 1 HDMI, 1 USB, 1 Audio, 1 RS232
Output	1 RJ45(RS232), 2 Speakers	1 RJ45(RS232), 2 Speakers	2 BNC(CVBS), 2 Speakers, 1 RS232
Control	RS232, Infrared Remote	RS232, Infrared Remote	RS232, Infrared Remote
Working Temperature	0°~40° (+32°F~+104°F)	0°C~+40°C (+32°F~+104°F)	0°C~+50°C (+32°F~+122°F)
Working Humidity	10%~85%	10%~85%	20%~90%
Power & Consumption	AC110~240V, 120W	AC110~240V, 70W	AC100~240V(+/-10%), 35W
Bezel Width	8mm (U/L/R/B)	8mm (U/L/R/B)	25.5mm (U/L/R/B)
VESA	400×400mm	400×400mm	300×300mm
Dimensions	1227.2×699.6×65.0mm (48.3"×27.5"×2.6")	960.7×550.7×65.0mm (37.8"×21.7"×2.6")	750.7×455.1×44.0mm (29.6"×17.9"×1.7")
Weight	25.2kg (55.6lb)	16.6kg(36.6lb)	10Kg(22.0lb)




# DISPLAY & CONTROL

## Display

Model	LS650KCM-EF	LS550UEH-EG	LS550UCM-EF	LS490UCM-EF	LS460UCM-EF
Appearance					
Screen Size	65"(16:9)	55"(16:9)	55"(16:9)	49"(16:9)	46"(16:9)
LCD Technology	ADS	IPS	ADS	ADS	ADS
Resolution	3840x2160	1920x1080	1920x1080	1920x1080	1920x1080
Backlight	Direct LED	Direct LED	Direct LED	Direct LED	Direct LED
Bezel Width	2.3mm(U/L) 1.2mm(R/B)	0.44mm(U/L) 0.44mm(R/B)	2.3mm(U/L) 1.2mm(R/B)	2.3mm(U/L) 1.2mm(R/B)	2.3mm(U/L) 1.2mm(R/B)
Pixel Density	68dpi	40dpi	40dpi	46dpi	48dpi
Brightness	500cd/m2	700cd/m <sup>2</sup>	500cd/m <sup>2</sup>	500cd/m <sup>2</sup>	500cd/m <sup>2</sup>
Contrast Ratio	1200:1	1200:1	1400:1	1400:1	1200:1
Viewing Angle	H 178°, V 178°	H 178°, V 178°	H 178°, V 178°	H 178°, V 178°	H 178°, V 178°
Response Time	8ms	8ms	8ms	8ms	8ms
Display Color	8bit	10bit	8bit	8bit	8bit
Color Temperature	10,000K	10,000K	10,000K	10,000K	10,000K
MTBF	50,000h	50,000h	50,000h	50,000h	50,000h
Input	1 VGA, 1 DVI-D, 2 HDMI, 1 DP, 1 RS232, 1 Audio, 1 OPS, 1 IR	2 CVBS, 1 VGA 1 DVI-D, 1 HDMI, 1 RS232, 1 USB, 1 IR	1 CVBS, 1 VGA 1 DVI-D, 1 HDMI, 1 RS232, 2 USB, 1 Audio in, 1 IR	1 CVBS, 1 VGA 1 DVI-D, 1 HDMI, 1 RS232, 2 USB, 1 Audio in, 1 IR	1 CVBS, 1 VGA 1 DVI-D, 1 HDMI, 1 RS232, 2 USB, 1 Audio in, 1 IR
Output	1 DP, 1 RS232, 1 Audio out	2 CVBS, 1 RS232	1 CVBS, 1 RS232, 2 HDMI, 1 VGA, 1 Audio out	1 CVBS, 1 RS232, 2 HDMI, 1 VGA, 1 Audio out	1 CVBS, 1 RS232, 2 HDMI, 1 VGA, 1 Audio out
Control	RS232, Infrared Remote	RS232, Infrared Remote	RS232, Infrared Remote	RS232, Infrared Remote	RS232, Infrared Remote
Working Temperature	0°C~+50°C (+32°F~+122°F)	0°C~+50°C (+32°F~+122°F)	0°C~+50°C (+32°F~+122°F)	0~+50°C (+32°F~+122°F)	0°C~+50°C (+32°F~+122°F)
Working Humidity	10~80%	10~90%	10~80%	10~80%	10~80%
Power & Consumption	AC100~240V, 145W	AC100~240V, 150W	AC100~240V, 150W	AC100~240V, 120W	AC100~240V, 110W
Dimensions	1432.6×807.6×112.6mm (56.4"×31.8"×4.4")	1210.8×681.5×113.2mm (47.7"×26.8"×4.5")	1213.7×684.5×106.5mm (47.8"×26.9"×4.2")	1078.4×608.4×106.6mm (42.5"×24.0"×4.2")	1022.0×576.6×107.3mm (40.2"×22.7"×4.2")
Installation	Floor-standing, Wall-mounted(Optional)	Floor-standing, Wall-mounted(Optional)	Floor-standing, Wall-mounted(Optional)	Floor-standing, Wall-mounted(Optional)	Floor-standing, Wall-mounted(Optional)

# DISPLAY & CONTROL

## Display

Model	PHSA1.4-MH	PHSA1.6-MH	PHSA1.9-MH
Appearance			
Pixel Pitch	1.44mm	1.60mm	1.92mm
Pixel Configuration	1R1G1B	1R1G1B	1R1G1B
LED Type	SMD0909	SMD0909	SMD0909
Pixel Density	482,253 pixels/m <sup>2</sup>	390,625 pixels/m <sup>2</sup>	271,267 pixels/m <sup>2</sup>
Brightness	800cd/m <sup>2</sup>	800cd/m <sup>2</sup>	800cd/m <sup>2</sup>
Contrast Ratio	6000:1	8000:1	8000:1
Display Frame Rate	50/60Hz	50/60Hz	50/60Hz
Refresh Rate	7200Hz	7200Hz	7200Hz
Color Temperature	1500K~12000K (adjustable)	1500K~12000K (adjustable)	1500K~12000K(adjustable)
Viewing Angle	H170°, V160°	H170°, V160°	H170°, V160°
Display Color	16bits	16bits	16bits
MTBF	80,000h	80,000h	80,000h
Ingress Protection	Front IP40/Rear IP42	Front IP40/Rear IP42	Front IP40/Rear IP42
Working Temperature	-20°C~+50°C (-4°F~+122°F)	-20°C~+50°C (-4°F~+122°F)	-20°C~+50°C (-4°F~+122°F)
Working Humidity	10%~90%	10%~90%	10%~90%
Power(Avg)	AC100~240(+/-10%), 310W/m <sup>2</sup>	AC100~240(+/-10%), 310W/m <sup>2</sup>	AC100~240V (+/-10%), 260 W/m <sup>2</sup>
Module Size	230.4×172.8mm (9.1"×6.8")	230.4×172.8mm (9.1"×6.8")	230.4×172.8mm (9.1"×6.8")
Cabinet Size	460.8×345.6×39.5mm (18.1"×13.6"×1.6")	460.8×345.6×39.5mm (18.1"×13.6"×1.6")	460.8×345.6×39.5mm (18.1"×13.6"×1.6")
Cabinet Weight	6.1kg(13.4lb)	7.7kg(17.0lb)	7.7kg(17.0lb)
Maintenance Mode	Front Maintenance	Front Maintenance	Front Maintenance

# DISPLAY & CONTROL



## Video Management Platform

### Video Management Platform

Offers enhanced processing capabilities and flexible configuration with pluggable card module design to ensure excellent viewing experience using LCD, DLP or LED video wall.

- 19" Standard atca industry box with slotted design
- Flexible image display
- Powerful encoding and decoding capability
- Excellent compatibility



Model	M60-12U	M70-4U-E
Appearance		
Screen Quantity	180 Screens	60 Screens
Splicing Control Modes	Zoom/Merge/Roam/Overlay	Zoom/Merge/Roam/Overlay
Card Slots	1 main slot and 10 service slots	1 Main slot, 1 Control slot and 10 service slots
Max Encoding	200CH@1080P/200CH@D1	40CH@1080P
Max Decoding	60CH@32MP(25fps)/240CH@4K/960CH@1080P/ 1920CH@720P/3840CH@D1	20CH@8K(25fps)/80CH@4K/320CH@1080P/ 720CH@720P/1280CH@D1
Local Video Input	HDMI/DVI/VGA/HDCVI/3G-SDI/HD-SDI	HDMI/DVI(VGA with converter)
Network Video Input	IPC/DVR/NVR, etc.	IPC/DVR/NVR, etc.
Video Output	HDMI/CVBS (VGA & DVI with converter)	HDMI (VGA & DVI with converter)
Intercom	1/1 3.5mm jack(for intercom), Extra audio input on encoding card	1/1 3.5mm jack (for intercom)
Processor	64 bit quad core processor	64 bit quad core processor
Bus	PCI-E	PCI-E, Ethernet
Case	12U 19"	4U 19"
Ethernet	8 RJ-45 ports(10/100/1000M)	6 RJ-45 ports(10/100/1000M), 2 in mainboard and 4 in control board
USB	4 USB2.0	3 USB2.0, 1 USB3.0
Power	AC 100V~127V, 200V~240V	AC100~240V
Control Modes	WEB/Local GUI/Video Platform/Network Keyboard/iPad	WEB/Local GUI/Video Platform/Network Keyboard/iPad
Highlights	8K & H.265 & H.265+ decoding, 4K local signal encoding, Supports LED solution, Extra audio collection	8K & H.265 & H.265+ decoding, 4K local signal collection, Fisheye dewarp

## Decoder

Supports 4K/8K signal decoding and 4K output to ensure an ultra-high definition viewing experience using LCD, DLP or LED video walls.

- Local signal collection
- Flexible image display
- Powerful encoding and decoding capability
- Excellent compatibility

### Decoder

Model	NVD2105DH-4I-4K	NVD1805DH-4I-4K	NVD1505DH-4I-4K	NVD1205DH-4I-4K
Appearance				
Screen Quantity	21 Screens	18 Screens	15 Screens	12 Screens
Splicing Control Modes	Zoom/Merge/Roam/Overlay	Zoom/Merge/Roam/Overlay	Zoom/Merge/Roam/Overlay	Zoom/Merge/Roam/Overlay
Split Mode	1/4/6/8/9/16/25/36	1/4/6/8/9/16/25/36	1/4/6/8/9/16/25/36	1/4/6/8/9/16/25/36
Max Decoding	7CH@32MP/ 21CH@12MP(25fps)/ 28CH@4K/112CH@1080P/ 252CH@720P/448CH@D1	6CH@32MP/ 18CH@12MP(25fps)/ 24CH@4K/96CH@1080P/ 216CH@720P/384CH@D1	5CH@32MP/ 15CH@12MP(25fps)/ 20CH@4K/80CH@1080P/ 180CH@720P/320CH@D1	4CH@32MP/ 12CH@12MP(25fps)/ 16CH@4K/64CH@1080P/ 144CH@720P/256CH@D1
Local Video Input	2CH HDMI, 2CH DVI-I	2CH HDMI, 2CH DVI-I	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.	IPC/DVR/NVR, etc.
Video Output	HDMI(DVI with convertor)	HDMI(DVI with convertor)	HDMI(DVI with convertor)	HDMI(DVI with convertor)
Audio Out	HDMI	HDMI	HDMI	HDMI
Alarm In/Out	2/1 (30VDC 1A, 125VAC 0.5A, Relay output)	2/1 (30VDC 1A, 125VAC 0.5A, Relay output)	2/1 (30VDC 1A, 125VAC 0.5A, Relay output)	2/1 (30VDC 1A, 125VAC 0.5A, Relay output)
Intercom	1 Pair 3.5mm Jack	1 Pair 3.5mm Jack	1 Pair 3.5mm Jack	1 Pair 3.5mm Jack
Processor	Embedded processor	Embedded processor	Embedded processor	Embedded processor
Case	2.5U 19"	2.5U 19"	2.5U 19"	2.5U 19"
Ethernet	2 RJ-45 port (10/100/1000M)	2 RJ-45 port (10/100/1000M)	2 RJ-45 port (10/100/1000M)	2 RJ-45 port (10/100/1000M)
USB	1 USB2.0, 2 USB3.0	1 USB2.0, 2 USB3.0	1 USB2.0, 2 USB3.0	1 USB2.0, 2 USB3.0
Power	AC 100V~127V, 200V~240V, 47Hz~63Hz	AC 100V~127V, 200V~240V, 47Hz~63Hz	AC 100V~127V, 200V~240V, 47Hz~63Hz	AC 100V~127V, 200V~240V, 47Hz~63Hz
Control Modes	WEB/Video Platform/Network keyboard/iPad	WEB/Video Platform/Network keyboard/iPad	WEB/Video Platform/Network keyboard/iPad	WEB/Video Platform/Network keyboard/iPad
Highlights	8K & H.265 & H.265+ decoding, Fisheye dewarp, PC signal collection	8K & H.265 & H.265+ decoding, Fisheye dewarp, PC signal collection	8K & H.265 & H.265+ decoding, Fisheye dewarp, PC signal collection	8K & H.265 & H.265+ decoding, Fisheye dewarp, PC signal collection

# DISPLAY & CONTROL

## Keyboard

A network keyboard is a control device with joystick that can realize convenient PTZ operation, video wall control, etc.

- Powerful control capability
- Easy connection
- Flexible joystick
- Multiple combination key



### Keyboard

Model	NKB5000	NKB1000
Appearance		
Control Mode(s)	Direct mode, Network mode	Direct mode, Network mode, USB mode
Control Interface	2 RJ-45 port (10/100/1000M), Wi-Fi, RS232, RS485	1 RJ-45 port (10/100/1000M), RS232, RS485, RS422, USB
DVR/NVR Protocol	DH2	DH2
Dome Protocol	DH-SD1/PELCO-D/PELCO-P, etc.	DH-SD1/PELCO-D/PELCO-P, etc.
Max. Users	64 (including "admin")	64 (including "admin")
Screen	10.1" TFT LCD touch screen (1280×800)	Monochrome LCD screen (128×64)
Local Split Display Mode	1/4/9/16	--
Video Output	4CH HDMI	--
Local Decoding	4CH@4K/16CH@1080P	--
Intercom	1 Pair 3.5mm jack	--
Joystick	4-axis (zoom, focus, iris)	3-axis (zoom, focus, iris)
Main Processor	Dual-core Processor	Industrial embedded microprocessor
Operating System	Embedded LINUX	Embedded LINUX
USB	2 USB3.0, 2 USB2.0	1 USB2.0
Power	DC12V, 4A	DC12V/2A
Highlights	All touch screen, 4K&H.265 decoding, Controls NVR, DVR, EVS, Decoder, Matrix, Platform, Local visible control	Multi-user access control, Controls DVR, NVR, EVS, Decoder, Matrix, Work with SmartPSS or DSSClient via USB port

# ACCESSORIES





# Accessories

Accessory products offer a series of supporting equipment for CCTV monitoring devices promoted by Dahua to enhance product integrity and user experience, and supplement the insufficiencies of traditional products and solutions.



## Camera Mount

Offers a series of solutions for the installation of cameras.



## Power Supply

Provides different power supply type for devices with different specifications.



## Detector-radar









Realizes real-time trajectory tracking for multiple targets in a wide range.










## Solar Power

Provides solutions for outside monitoring scenarios where wiring is difficult.

# ACCESSORIES

HFWxxT Series			HFWxxH Series		HFWxxE(-Z), HFWxxE(-SE) TPC-BF5xx Series		
							
<b>Model</b>	PFA130-E	PFA130-E+PFA152-E	<b>Model</b>	PFA154	<b>Model</b>	PFA121	PFA121+PFA152-E
<b>Mount</b>	Junction box	Pole mount	<b>Mount</b>	Pole mount	<b>Mount</b>	Junction box	Pole mount

HFxxE, HFxxF Series				HDBWxxH Series				
								
<b>Model</b>	PFB110W	PFB121W	PFH610V/H/ A+PFB604W	<b>Model</b>	PFA130-E	PFB203W	PFB203W+PFA152-E	PFA106+PFB220C
<b>Mount</b>	Wall/Ceiling/Plane mount	Wall mount	Housing	<b>Mount</b>	Junction box	Wall mount	Pole mount	Ceiling mount(extensible)

HDBWxxE-Z Series						
						
<b>Model</b>	PFA138	PFA133-E	PFB211W	PFB211W+PFA152-E	PFA101+PFB300C	PFB201C
<b>Mount</b>	Junction box	Junction box (20°)	Wall mount	Pole mount	Ceiling mount	In-ceiling mount

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

# ACCESSORIES

EBWxx Series				
				
Model	PFA132-E	PFA100+PFB302S	PFA100+PFB302S+PFA152-E	PFA100+PFB300C
Mount	Junction box	Wall mount	Pole mount	Ceiling mount





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

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

EWxx Series			
			
Model	PFB203W	PFB203W+PFA152-E	PFB110W
Mount	Wall mount	Pole mount	Ceiling mount

PSD8xx Series		
		
Model	PFA710+PFB710W	PFA710+PFB710C
Mount	Wall mount	Ceiling mount

PSDWxx Series		
		
Model	PFA102+PFB303W	PFA102+PFB300C
Mount	Wall mount	Ceiling mount

PFW8xx-A180 Series			
			
Model	PFA120	PFA150	PFA151
Mount	Junction box	Pole mount	Corner Mount

PDBW8xx Series		
		
Model	PFA111+PFB303W	PFA111+PFB300C
Mount	Wall mount	Ceiling mount

# ACCESSORIES

<b>PDBW5831-B360</b>			<b>HDWxxH,HDWxxT-ZE Series</b>			
						
<b>Model</b>	PFA108+PFA111+PFB303W	PFA108+PFA111+PFB300C	<b>Model</b>	PFA130-E	PFB203W	PFB203W+PFA152-E
<b>Mount</b>	Wall mount	Ceiling mount	<b>Mount</b>	Junction box	Wall mount	Pole mount

<b>HDW5xxTM Series</b>				<b>SD10Axx Series</b>		
						
<b>Model</b>	PFA130-E	PFB204W	PFB204W+PFA152-E	<b>Model</b>	PFB710W	PFA153
<b>Mount</b>	Junction box	Wall mount	Pole mount	<b>Mount</b>	Wall mount	Pole mount

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

<b>SD65F/60/6AE/6AL/ TPC-SD8xx Series</b>								
								
<b>Model</b>	PFA111+PFB303W	PFB310W	PFA111+PFB303W+PFA120	PFA111+PFB300C	PFA150	PFA151	PFA140	PFA111+PFB303S
<b>Mount</b>	Wall mount		Junction box	Ceiling mount	Pole mount	Corner Mount	Power box	Parapet mount

# Housings

Provides a multi-functional shield for the box camera.

- Aesthetic design
- All weather protection, suitable for different scenes
- IP66/67, IK10 ingress protection
- Supports remote RS485 control of IR lights and wiper function



# ACCESSORIES

## Housings

Model	PFH610N-IR-W	PFH610V	PFH610V-H	PFH610V-H-POE
Appearance				
Inside Dimension	255mmx90mmx70.5mm (10.04"x3.54"x2.78") 215mmx90mmx83mm (8.46"x3.54"x3.27")	255x90x83mm (10.04"x3.54"x3.27")	255x90x70.5mm (10.04"x3.54"x2.78") 215x90x83mm (8.46"x3.54"x3.27")	255x90x70.5mm (10.04"x3.54"x2.78") 215x90x83mm (8.46"x3.54"x3.27")
Window Dimension	φ60mm(φ2.36")	φ60mm(φ2.36")	φ60mm(φ2.36")	Supported
Wiper	Supported	--	--	--
Vandal-proof	--	Supported	Supported	Supported
Anti-corrosion	--	--	--	Supported
Compatibility	HFxxE, HFxxF	HFxxE, HFxxF	HFxxE, HFxxF	--
IR Distance	0~100m(0~328.08ft)	--	--	HFxxE, HFxxF
RS485 Control	Use RS485 to control IR light & wiper	--	--	--
Power Supply	AC24V/5A	DC12V, AC24V	AC24V/3A	POE+
Power Consumption	Max. 70W	--	30W	12W
Operating Temperature	Set: -40°C~+60°C(-40°F~+140°F) Heater: ON: 5±5°C/OFF: 15±5°C Cooler: ON: 37±5°C/OFF: 20±5°C ON: 5±5°C/OFF: 15±5°C	Set: -30°C~+60°C(-22°F~+140°F) Heater: N/A Cooler: N/A	Set: -40°C~+60°C(-40°F~+140°F) Heater: ON: 5±5°C/OFF: 15±5°C Cooler: ON: 37±5°C/OFF: 20±5°C ON: 5±5°C/OFF: 15±5°C	-40°C~60°C(-40°F~+140°F)
Ingress Protection	IP66	IP67	IP67	IP67
Vandal Resistance	--	IK10	IK10	IK10
Material	Aluminum(case)&PC(others)	Aluminum(case)&PC(others)	Aluminum(case)&PC(others)	Aluminum(case) & PC(others)
Dimension(LxWxH)	404mmx164mmx175mm (15.91"x6.46"x6.89")	404mmx164mmx132mm (15.91"x6.46"x5.2")	404mmx164mmx132mm (15.91"x6.46"x5.2")	404mmx164mmx132mm (15.91"x6.46"x5.2")
Certification	CE, FCC, ICES	CE, FCC, ICES	CE, FCC, UL, EAC, ICES	Aluminum(case) & PC(others)

## Housings

Model	PFH610V-IR	PFH610V-IR-POE	PFH610A	PFH610A-H	PFH610A-H-POE	PFH610A-IR	PFH610A-IR-POE
Appearance							
Inside Dimension	255x90x70.5mm (10.04"x3.54"x2.78") 215x90x83mm (8.46"x3.54"x3.27")	255x90x70.5mm (10.04"x3.54"x2.78") 215x90x83mm (8.46"x3.54"x3.27")	255x90x83mm (10.04"x3.54"x3.27")	255x90x70.5mm (10.04"x3.54"x2.78") 215x90x83mm (8.46"x3.54"x3.27")	255x90x70.5mm (10.04"x3.54"x2.78") 215x90x83mm (8.46"x3.54"x3.27")	255x90x70.5mm (10.04"x3.54"x2.78") 215x90x83mm (8.46"x3.54"x3.27")	255x90x70.5mm (10.04"x3.54"x2.78") 215x90x83mm (8.46"x3.54"x3.27")
Window Dimension	φ60mm(φ2.36")	φ60mm(φ2.36")	φ60mm(φ2.36")	φ60mm(φ2.36")	φ60mm(φ2.36")	φ60mm(φ2.36")	φ60mm(φ2.36")
Wiper	--	--	--	--	--	--	--
Vandal-proof	Supported	Supported	--	--	--	--	--
Anti-corrosion	--	--	Supported	Supported	Supported	Supported	Supported
Compatibility	HFxxE, HFxxF	HFxxE, HFxxF	HFxxE, HFxxF	HFxxE, HFxxF	HFxxE, HFxxF	HFxxE, HFxxF	HFxxE, HFxxF
IR Distance	0~100m(0~328.08ft)	0~100m(0~328.08ft)	--	--	--	0~100m(0~328.08ft)	0~100m(0~328.08ft)
RS485 Control	Use RS484 to control IR light	Use RS484 to control IR light	--	--	--	Supported	Supported
Power Supply	AC24V/5A	POE+	DC12V, AC24V	AC24V/3A	POE+	AC24V/5A,	POE+
Power Consumption	55W	12.5W	--	30W	12W	55W	12.5W
Operating Temperature	Set: -40°C~-60°C(-40°F~+140°F) Heater: ON: 5±5°C/OFF: 15±5°C Cooler: ON: 37±5°C/OFF: 20±5°C ON: 5±5°C/OFF: 15±5°C	Set: -40°C~+60°C(-40°F~+140°F) Heater: ON: <+5°C(+41°F)/ OFF: ≥+5°C(+41°F) Cooler: ON: ≥37°C(98.6°F)/ OFF: <20°C(68°F)	Set: -30°C~+60°C(-22°F~+140°F) Heater: ON: N/A Cooler: ON: N/A	Set: -40°C~-60°C(-40°F~+140°F) Heater: ON: 5±5°C/OFF: 15±5°C Cooler: ON: 37±5°C/OFF: 20±5°C ON: 5±5°C/OFF: 15±5°C	Set: -40°C~-60°C(-40°F~+140°F) Heater: ON: 5±5°C/OFF: 15±5°C Cooler: ON: 37±5°C/OFF: 20±5°C ON: 5±5°C/OFF: 15±5°C	Set: -40°C~-60°C(-40°F~+140°F) Heater: ON: 5±5°C/OFF: 15±5°C Cooler: ON: 37±5°C/OFF: 20±5°C ON: 5±5°C/OFF: 15±5°C	Set: -40°C~+60°C(-40°F~+140°F) Heater: ON: <+5°C(+41°F)/ OFF: +5°C(+41°F) Cooler: ON: ≥37°C(98.6°F)/ OFF: <20°C(68°F)
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Vandal Resistance	IK10	IK10	IK10	IK10	IK10	IK10	IK10
Material	Aluminum(case)&PC(others)	Aluminum(case)&PC(others)	Aluminum(case)&PC(others)	Aluminum(case)&PC(others)	Aluminum(case)&PC(others)	Aluminum(case)&PC(others)	Aluminum(case)&PC(others)
Dimension(LxWxH)	404mmx164mmx132mm (15.91"x6.46"x5.2")	404mmx164mmx132mm (15.91"x6.46"x5.2")	404mmx164mmx132mm (15.91"x6.46"x5.2")	404mmx164mmx132mm (15.91"x6.46"x5.2")	404mmx164mmx132mm (15.91"x6.46"x5.2")	404mmx164mmx132mm (15.91"x6.46"x5.2")	404mmx164mmx132mm (15.91"x6.46"x5.2")

# Lenses

A wide range of multi-functional lenses for the box camera.

- Super edge resolution
- Great highlight performance
- Outstanding starlight technology
- Better temperature performance



# ACCESSORIES

## Lenses

Model	PFL2712-E6D	PFL0550-E6D	PLZ20C0-D	PLZ21C0-D	PFL1575-A12D
Appearance					
Image Format	1/2.7"	1/2.7"	1/1.7"	1/1.7"	1/1.7"
Focal Length	2.7-12mm	5-50mm	3.7-16mm	10.5-42mm	15-75mm
Lens Pixel	6MP	6MP	12MP	12MP	12MP
Aperture	F1.6	F1.6	F1.5	F1.5	F1.5
Mount	CS	CS	CS	CS	C
Focus Control	Manual	Manual	Manual	Manual	Manual
Zoom Control	Manual	Manual	Manual	Manual	Manual
Iris Control	DC-iris	DC-iris	DC-iris	DC-iris	DC-iris
IR Correction	Supported (420~850nm)	Supported	Supported	Supported	Supported
M.O.D.	0.3m (0.98ft)	0.5m (1.64ft)	0.5m (1.64ft)	0.3m (0.98ft)	1.5m (4.92ft)
Operating 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)

## Lenses

Model	PLZ20C0-P	PLZ21C0-P	PFL2070-J12M	PFL1040-K9PE	PFL1040-K9M
Appearance					
Image Format	1/1.7"	1/1.7"	4/3"	1"	1"
Focal Length	3.7-16mm	10.5-42mm	20-70mm	10-40mm	10-40mm
Lens Pixel	12MP	12MP	12MP	9MP	9MP
Aperture	F1.5	F1.5	F1.5	F1.5	F1.5
Mount	CS	CS	M43	C	C
Focus Control	Manual	Manual	Manual	Motorized	Manual
Zoom Control	Manual	Manual	Manual	Motorized	Manual
Iris Control	P-iris	P-iris	Manual	P-Iris	Manual
IR Correction	Supported	Supported	--	--	--
M.O.D.	0.5m (1.64ft)	0.3m (0.98ft)	3m (9.84ft)	2.5m (8.2ft)	2.5m (8.2ft)
Operating 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)

## Power Supply

Safe and reliable power supply for our products.

- DC power adapter: Wide temperature operation range of -30°C~+70°C and lightning protection up to 4KV.
- UPS: Temporary power discharge equipment between utility and equipment



### DC Power Adapter

Model	PFM321D-EN/BS/US	PFM320D-EN/BS/US	PFM321-EN/BS/US	PFM320D-015	PFM300
Appearance					
Input	100~240V, 50/60Hz, 0.5A	100~240V, 50/60Hz, 0.6A	90~264V	AC100~240V, 50/60Hz, 0.6A	AC180~264V, 50/60Hz, 0.6A
Output	12V(+7%, -3%), 1A	12V(+7%, -3%), 2A	12V(+7%, -3%), 1A	DC12V (+7%, -3%), 1.5A	DC12V (±5%), 2A
Working temperature	-30°C~+70°C (-22°F~+158°F)	-30°C~+70°C (-22°F~+158°F)	-10°C~+55°C (+14°F~+131°F)	-30°C~+70°C (-22°F~+158°F)	-30°C~+70°C (-22°F~+158°F)
Surge Protection	Common Mode ±4KV (12 ohms); Differential Mode ±2kV (2 ohms)	Common Mode ±4KV (12 ohms); Differential Mode ±2kV (2 ohms)	Common Mode ±4KV (12 ohms); Differential Mode ±2kV (2 ohms)	Common Mode ±4KV (12 ohms); Differential Mode ±2kV (2 ohms)	Common Mode ±4KV (12 ohms); Differential Mode ±2kV (2 ohms)

### UPS

Model	PFM350-360	PFM350-900	PFM351-900	PFM351R-900	PFM351R-2700
Appearance					
Capacity	600VA/360W	1500VA/900W	1000VA/900W	1000VA/900W	3000VA/2700W
Input Rated Voltage	220Vac~240Vac(US 110Vac~120Vac)	220Vac~240Vac(US 110Vac~120Vac)	220Vac~240Vac(US 110Vac~120Vac)	220Vac~240Vac	220Vac~240Vac
Output Rated Frequency	50Hz or 60Hz	50Hz or 60Hz	40Hz~70Hz	57~63Hz	57~63Hz
Output Voltage	220/230/240 VAC (US 110/120 VAC)	220/230/240 VAC (US 110/120 VAC)	200/208/220/230/240 VAC (US 100/110/115/ 120/127 VAC)	200/208/220/230/ 240 VAC	200/208/220/230/ 240 VAC
Output Rated Frequency	50Hz or 60Hz ±1Hz	50Hz or 60Hz ±1Hz	50Hz or 60Hz	50Hz or 60Hz	50Hz or 60Hz
Operating 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)



# Camera Testers

It allows easier testing of cameras that only requires a single person to operate, saving significant amount of time and labor costs.

- Camera video tester
- Small tools: DMM/Wifi test/OPM/Data monitor
- Cable tester: TDR/ Analog video generator
- Power supply: PoE+/ DC12V2A/ USB5V2A output



# ACCESSORIES

## Camera Testers

Model	PFM900-E	PFM906	PFM907
Appearance			
Operation System	Linux	Android	Linux
Language	Multi-language interface	Multi-language interface	Multi-language interface
Operation Mode	Keyboard	Touch screen and keyboard	Touch screen and keyboard
Screen	4.0" TFT screen, 800 × 480 resolution	7 inch capacitive touch screen display, 1920x1200 resolution	7 inch capacitive touch screen display, 1920x1200 resolution
Update	Online and local update	Online and local update	Online and local update
Analog Video Test	HDCVI: 2MP, 4MP, 5MP, 6MP, 4K HDTVI: 2MP, 4MP, 5MP AHD: 2MP, 4MP CVBS: NTSC, PAL	HDCVI: 1MP, 2MP, 4MP,4K HDTVI: 1MP, 2MP, 4MP,5MP AHD: 1MP, 2MP, 4MP CVBS: NTSC, PAL	HDCVI: 1MP, 2MP, 4MP,5MP,6MP,4K HDTVI: 1MP, 2MP, 4MP,5MP AHD: 1MP, 2MP, 4MP CVBS: NTSC, PAL
IPC Test	Discovering the device, real-time video, camera configuration, PTZ test, discovering ONFIV device	Discovering the device, real-time video, camera configuration, PTZ test, discovering ONFIV device	Discovering the device, real-time video, camera configuration, PTZ test, discovering ONFIV device
Camera Power Supply	DC12V/2A output	DC48V PoE+ power out, Max. DC12V 2A out, Max. DCSV 2A out	DC12V/2A output
RS485	Receive and display protocol data with a RS485 cable	Captures and analyzes the command data from controlling device via RS485	Captures and analyzes the command data from controlling device via RS485
PTZ Control test	OSD menu display and PTZ control	OSD menu display and PTZ control	OSD menu display and PTZ control
Accessibility	Audio Test, TDR Test, Digital Multimeter, POE Test	Audio Test, TDR Test, Digital Multimeter, Optical Power Meter, HDMI Output, POE Test	Audio Test, TDR Test, Digital Multimeter, Optical Power Meter, HDMI Output, POE Test, WiFi Test
Charger	PoE 48V/0.32A	DC 12V/2A	DC 12V/1.5A
Working temperature	-10°C to +55°C (+14°F to +131°F)	-10°C to +55°C (+14°F to +131°F)	-10°C to +55°C (+14°F to +131°F)

## Distribution Boxes

With various functional modes, these distribution boxes are designed for simultaneous power management in monitored outdoor environment.

- Basic outdoor protection function, waterproof and anti-theft
- Reserve standard 3.5" guide rail installation position
- Pole mount and wall mount
- Aesthetic design, easy installation



### Distribution Boxes

Model	PFA143	PFM377
Appearance		
Input	IP66	IP54
Output	Aluminum & SECC	SUS201+spraying
Working temperature	450mmx365mmx191mm (17.72"x14.37"x7.52")	600mmx400mmx226mm(23.62"x15.75"x8.9")
Surge Protection	9kg (19.84lb)	14kg (30.86lb)
Working temperature	External: PTZ Camera, Bullet Camera, CPE, Illuminator Internal: Switch, MNVR, Switch Power, Breaker, Lightning protector, Fan	Switch, MNVR, Switch Power, Breaker, Lightning protector, Fan

# ACCESSORIES





## Security Radar

### Security Radar

Security radar is usually used for perimeter or area detection using its smart-tracking function with PTZ cameras.

- 24/7 all-weather and all-environment detection
- High accuracy: low false alarm rate, zero false negative rate
- Real-time trajectory tracking, graded alarm set
- Movement tracking display, target filtering (human and vehicle)
- Centralized platform management



Model	PFR4K-E50	PFR4K-E120	PFR4K-D300	PFR4K-D450
Appearance				
Max. Number of Targets	64	64	32	32
Detection Distance	50.0 m (164.04 ft)	120.0 m (393.70 ft)	300.0 m (984.25 ft)	450.0 m (1476.38 ft)
Detection Angle	Horizontal: 120°, Vertical: 36°	Horizontal: 120°, Vertical: 36°	Horizontal: 90° Vertical: 13°	Horizontal: 90° Vertical: 13°
Max. Detection Speed	40 km/h, continuous trajectory	40 km/h, continuous trajectory	80 km/h, continuous trajectory	80 km/h, continuous trajectory
Min. Detection Speed	0.17 m/s, continuous trajectory	0.17 m/s, continuous trajectory	1.8 km/h, continuous trajectory	1.8 km/h, continuous trajectory
Distance Accuracy	± 1 m (± 3.28 ft)	± 1.5 m (± 4.92 ft)	± 1.5 m (± 4.92 ft)	± 1.5 m (± 4.92 ft)
Angle Accuracy	± 1°	± 1°	± 1°	± 1°
Max. Number of Areas	10	10	10	10
Modulation Type	FMCW	FMCW	FMCW	FMCW
Scan Frequency	10 Hz	10 Hz	8 Hz	8 Hz
Operating Frequency	24 GHz	24 GHz	24 GHz	24 GHz
Detection Target Type	Human and vehicle	Human and vehicle	Human and vehicle	Human and vehicle
Number of PTZ Camera	Web: 3, DSS Pro: 8	Web: 3, DSS Pro: 8	Web: 3, DSS Pro: 8	Web: 3, DSS Pro: 8
Radar+PTZ Smart Tracking	Web & DSS Pro	Web & DSS Pro	Web & DSS Pro	Web & DSS Pro
Track Mode	Tour, distance priority, and time priority	Tour, distance priority, and time priority	Tour, distance priority, and time priority	Tour, distance priority, and time priority
Region Setting	Alarm area, pre-warning area, and shield area	Alarm area, pre-warning area, and shield area	Alarm area, pre-warning area, and shield area	Alarm area, pre-warning area, and shield area
Target Filtering	Human and vehicle filtering	Human and vehicle filtering	Human and vehicle filtering	Human and vehicle filtering
Record Mode	Manual record, scheduled record, and alarm record Record priority: Manual>Alarm>Scheduled	Manual record, scheduled record, and alarm record Record priority: Manual>Alarm>Scheduled	Manual record, scheduled record, and alarm record Record priority: Manual>Alarm>Scheduled	Manual record, scheduled record, and alarm record Record priority: Manual>Alarm>Scheduled
Restore to Factory Default	Restore default settings with one click	Restore default settings with one click	Restore default settings with one click	Restore default settings with one click
Map Encoding	Supported	Supported	Supported	Supported
Power Supply	DC 12V (±30%), AC 24V (±30%), PoE (802.3at)	DC 12V (±30%), AC 24V (±30%), PoE (802.4at)	DC 12V (±30%), AC 24V (±30%), PoE (802.5at)	DC 12V (±30%), AC 24V (±30%), PoE (802.6at)

## Visual Radar

Visual Radar integrates the trajectory tracking of the radar module and the video tracking of the camera, suitable for entrance and exit monitoring.

- Radar and video integration
- Extremely low rate of false alarms
- 24/7 all weather
- Speed filtering of target
- Target filtering of human and vehicles
- Sound and light alarm



### Visual Radar

Model	PFR5QI-E60-PV	PFR5QI-E60
Appearance		
Max. Target Number	60 m (196.85 ft)	60 m (196.85 ft)
Distance	Horizontal: 120°	Horizontal: 120°
Angle	Pitch angle: 26°	Pitch angle: 26°
Distance Accuracy	±0.5 m (1.64 ft)	±0.5 m (1.64 ft)
Angle Accuracy	±1°	±1°
Max. Detection Speed	43.2 km/h, continuous trace	43.2 km/h, continuous trace
Min. Detection Speed	0.72 km/h, continuous trace	0.72 km/h, continuous trace
Modulation Method	FMCW	FMCW
Scan Frequency	20 Hz	20 Hz
Working Frequency	60 GHz–61 GHz	60 GHz–61 GHz
Supported Target Type	Human; vehicle	Human; vehicle
Transmission Power	< 20 dBm (100mW)	< 20 dBm (100mW)
Image Sensor	1/1.8" CMOS	1/1.8" CMOS
Pixel	4MP	4MP
Max. Resolution	2560 (H) × 1440 (V)	2560 (H) × 1440 (V)
Electronic Shutter Speed	1/3 s–1/100000 s	1/3 s–1/100000 s
Min. Illumination	0.0036 Lux @F1.6 (Color); 0.0036 Lux @F1.6 (B/W); 0 Lux (IR on)	0.0036 Lux @F1.6 (Color); 0.0036 Lux @F1.6 (B/W); 0 Lux (IR on)
S/N Ratio	> 56 dB	> 56 dB
Illumination Distance	35 m (114.83 ft) (0°, visible human body shape)	35 m (114.83 ft) (0°, visible human body shape)
Illuminator Number	4	4
Sound and Light Alarm	Supported	--

# Solar Power

Dahua solar power system provides convenient and stable power supply for front-end monitoring equipment.

- Free combination, high flexibility
- Solar energy, short construction period
- Wireless transmission, Easy wiring
- Client state real-time monitoring, reducing the maintenance cost

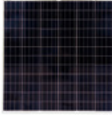






# ACCESSORIES



## Integrated Solar Monitoring System

Model	PFM364L-D1	PFM363L-D1	PFM363L-SD1	KIT/PFM364L-D1/IPC-HFW4230MP-4G-AS-I2/PFB121W
Appearance				
Solution	For 4G solution	For 4G solution	For wireless solution	For 4G solution
Rated Capacity (20°C, 5hr)	576Wh (12.8V/45Ah)	576Wh (12.8V/45Ah)	576Wh (12.8V/45Ah)	576Wh (12.8V/45Ah)
Solar Cell Efficiency	21%	21%	21%	21%
IP Rating	IP66	IP66	IP66	IP66
Installation	Pole-mount, suitable for Φ76~96mm (Φ3.0"~Φ3.78") pole	Pole-mount, suitable for Φ76~96mm (Φ3.0"~Φ3.78") pole	Pole-mount, suitable for Φ76~96mm (Φ3.0"~Φ3.78") pole	Pole-mount, suitable for Φ76~96mm (Φ3.0"~Φ3.78") pole
Operating Temperature	Day (charging mode): 0°C~60°C (32°F~140°F) Night (discharging mode): -20°C~60°C (-4°F~140°F)	Day (charging mode): 0°C~60°C (32°F~140°F) Night (discharging mode): -20°C~60°C (-4°F~140°F)	Day (charging mode): 0°C~60°C (32°F~140°F) Night (discharging mode): -20°C~60°C (-4°F~140°F)	Day (charging mode): 0°C~60°C (32°F~140°F) Night (discharging mode): -20°C~60°C (-4°F~140°F)

## Solar Panel

Model	PFM371-150	PFM371-M275	PFM371-M330	Model	PFM372-L45-4S14P	PFM374-L45
Appearance				Appearance		
Max. power(Pmax)	150Wp	275Wp	330Wp	Product Dimensions	Outer: 359.8×268.7×116.0 mm	Outer: 359.8×268.7×116.0 mm
Max. power point voltage(Vmp)	36.58V	31.99Vdc	37.7Vdc	Material	Die casting aluminum	Die casting aluminum
Max. power point current(Imp)	4.10A	8.60A	8.76A	Net Weight	8.5 kg (18.74 lb)	8.5 kg (18.74 lb)
Efficiency of battery piece	17.20%	19.20%	19.20%	Grade	IP66	IP66
Working Temperature	-40°C~+85°C (-40°F~+140°F)	-40°C~+85°C (-40°F~+140°F)	-40°C~+85°C (-40°F~+140°F)	Operating Temperature	-20°C ~+60°C (-4°F ~+140°F)	-20°C ~+ 60°C (-4°F ~+140°F)
				Charging Current	9A	--
				Discharge Current	9A	--
				Rated Voltage	DC12.8V	--
				Internal Resistance	≤80mΩ	--
				Nominal Capacity	45Ah	--
				Charging Voltage	Max.DC14.6V	--
				Max.Current	Charging: 10A Discharging: 10A	--

## Solar Power Distribution Boxes








Model	PFM377-D2440	PFM377-D4830
Appearance		
Compatibility	Include MPPT controller, lightning arrester, DC circuit breaker, etc	Include MPPT controller, lightning arrester, DC circuit breaker, etc
Controller type	MPPT	MPPT
System voltage	12VDC/24VDC Auto	12VDC/24VDC/48VDC Auto
Max. battery voltage	9VDC~70VDC	9VDC~70VDC
Rated charging current	40A	30A
Rated load current	20A	20A
Max. capacitive load capacity	10000μF	10000μF
Max. input open voltage of solar panels	100V(25°C); 90V(-25°C)	150V(25°C); 135V(-25°C)
Max. input power of solar panel	550W/12VDC; 1100W/24VDC	400W/12VDC; 800W/24VDC; 1200W/36VDC; 1600W/48VDC

## Storage Batteries

## Mounting Brackets of Solar Panels





## Battery Box

## Power Inverter

Model	DC12-100	DC12-150	DC12-200	PFM376-C	PFM376-D	PFM374-H400	TS-400-248B
Appearance							
Description	DC12V gel battery Capacity (25°C/77°F, 10hr): 100Ah Max. Charging Current: 20A (0.2C) Max. Discharging Current: 1000A (5 s)	DC12V gel battery Capacity (25°C/77°F, 10hr): 150Ah Max. Charging Current: 30A (0.2C) Max. Discharging Current: 1500A (5 s)	DC12V gel battery Capacity (25°C/77°F, 10hr): 200Ah Max. Charging Current: 40A (0.2C) Max. Discharging Current: 2000A (5 s)	Mounting Bracket of PFM371-150(2 pcs)	Mounting Bracket of PFM371-M275 and PFM371-M330	Solar Battery Storage Box, max. 2 batteries in 1 box	400W power Inverter, Input: DC42-60V Output: 200 / 220 / 230/ 240Vac selectable by setting button

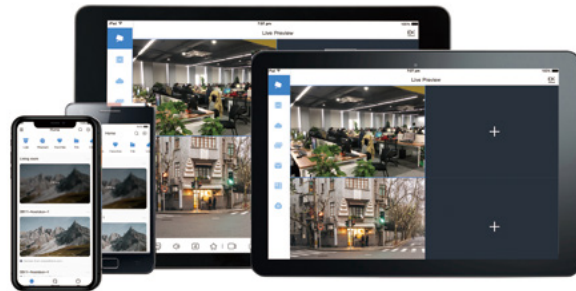
# VIDEO MANAGEMENT SOFTWARE

## DSS Products

		DSS Express	DSS Pro	DSS4004-S2	DSS7016D(R)-S2
	Model	V1.00.003.2	V7.02.005.1	V1.01.000.1	V1.01.001.1
	Appearance				
Deployment	OS	Windows	Windows	Linux	Linux
	Form	Software	Software	ALL-IN-ONE	ALL-IN-ONE
	Hot standby	×	√	√	√
	Distribute	×	√	×	√
	N+M	×	√	×	√
	Cascade As Superior Level	×	√	×	×
	Cascade As Subordinate Level	√	√	√	√
Performance	Camera	256	1000 IP, 2000 CH	256	500 IP, 1000 CH
	Face Recognition	8	100	32	100
	ANPR	8	64	32	64
	Maximum Video Input Bandwidth Per Server	350Mbps	600Mbps	350Mbps	600Mbps
	Maximum Storage Bandwidth Per Server	150Mbps	600Mbps	150Mbps	600Mbps
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, Visitor Management, Entrance	√	√	√	√
	Attendance	×	√	×	×
	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 from 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	24 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, Ivs alarm, Thermal Imaging Alarm, Defocus, Audio Detect, HDD Alarm, Sensor Alarm, Network Alarm
	Push Type	Video, Preview



# DORI DISTANCE (D/O/R/I)

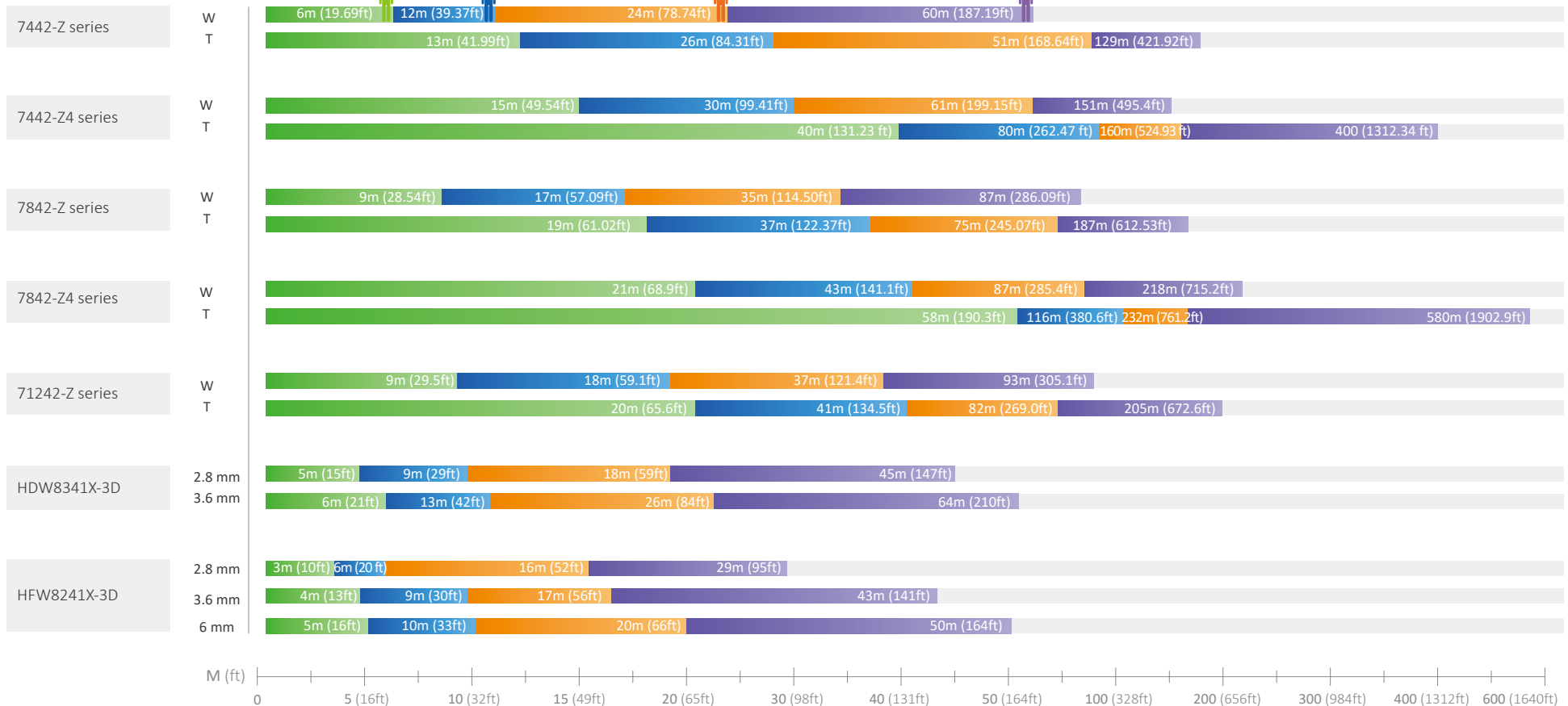
Find the Optimal Camera for Your Customized Surveillance Needs

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

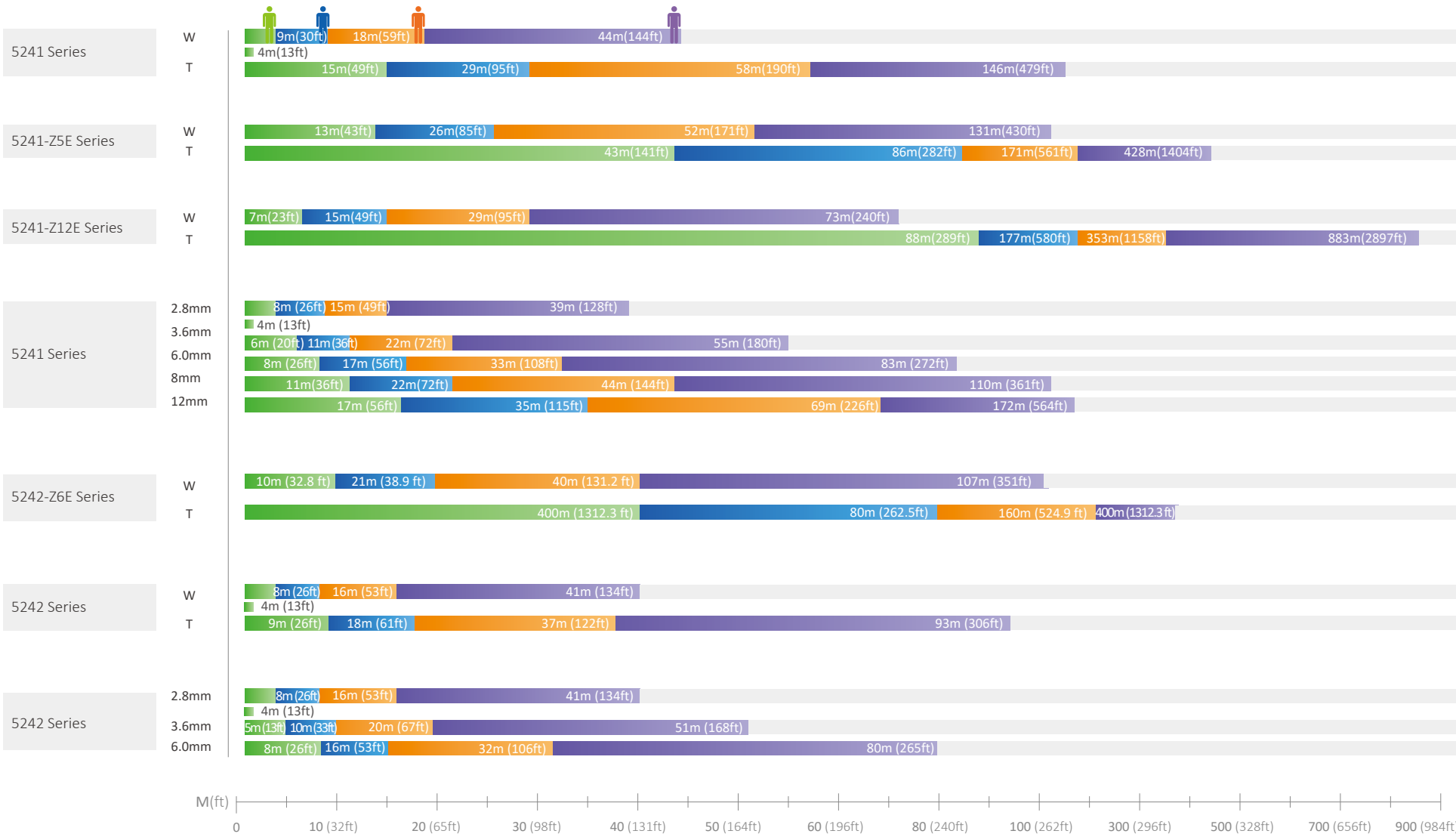
### WizMind 7 Series



# DORI DISTANCE (D/O/R/I)

## NETWORK CAMERAS

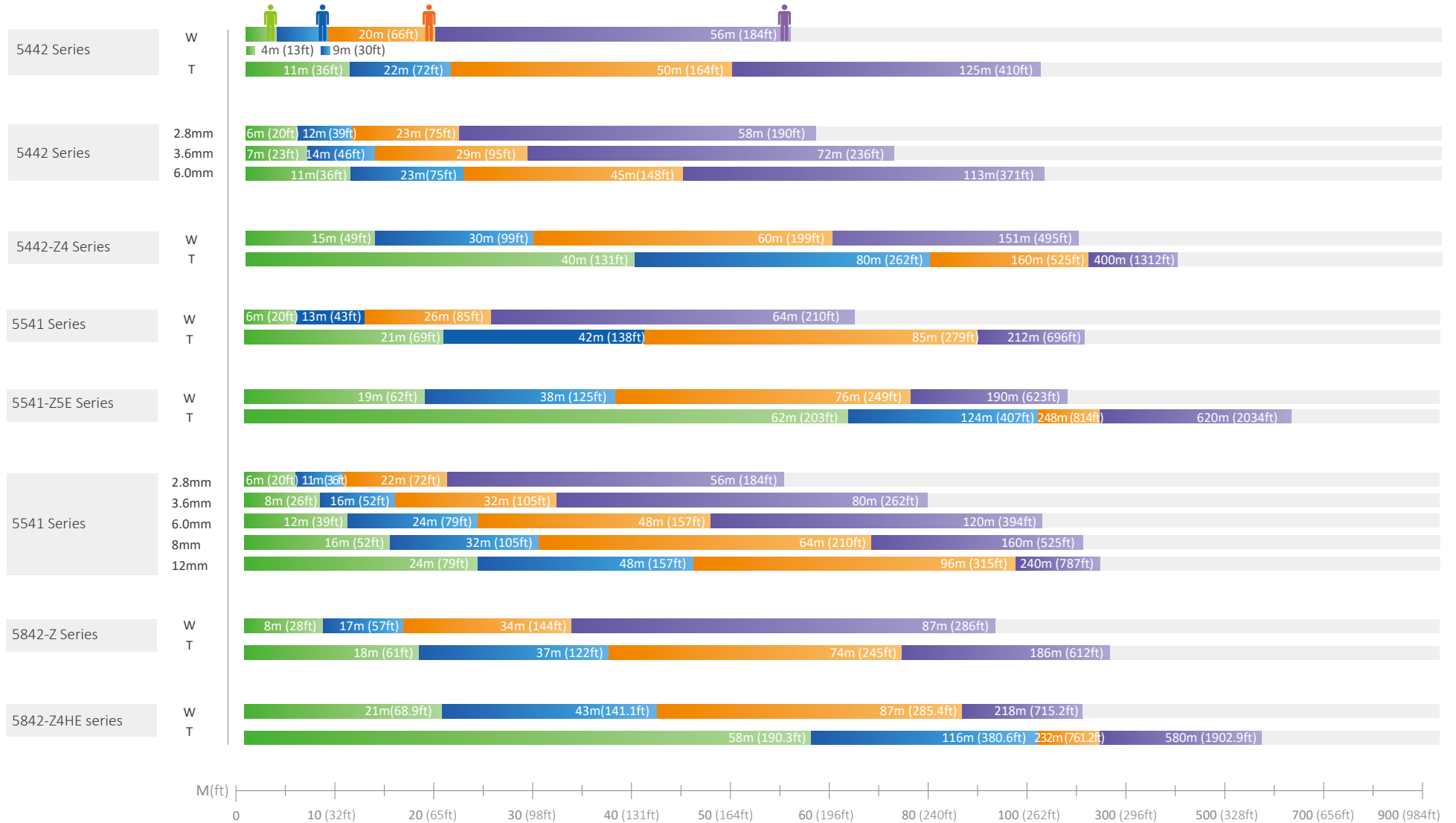
### WizMind 5 Series



# DORI DISTANCE (D/O/R/I)

## NETWORK CAMERAS

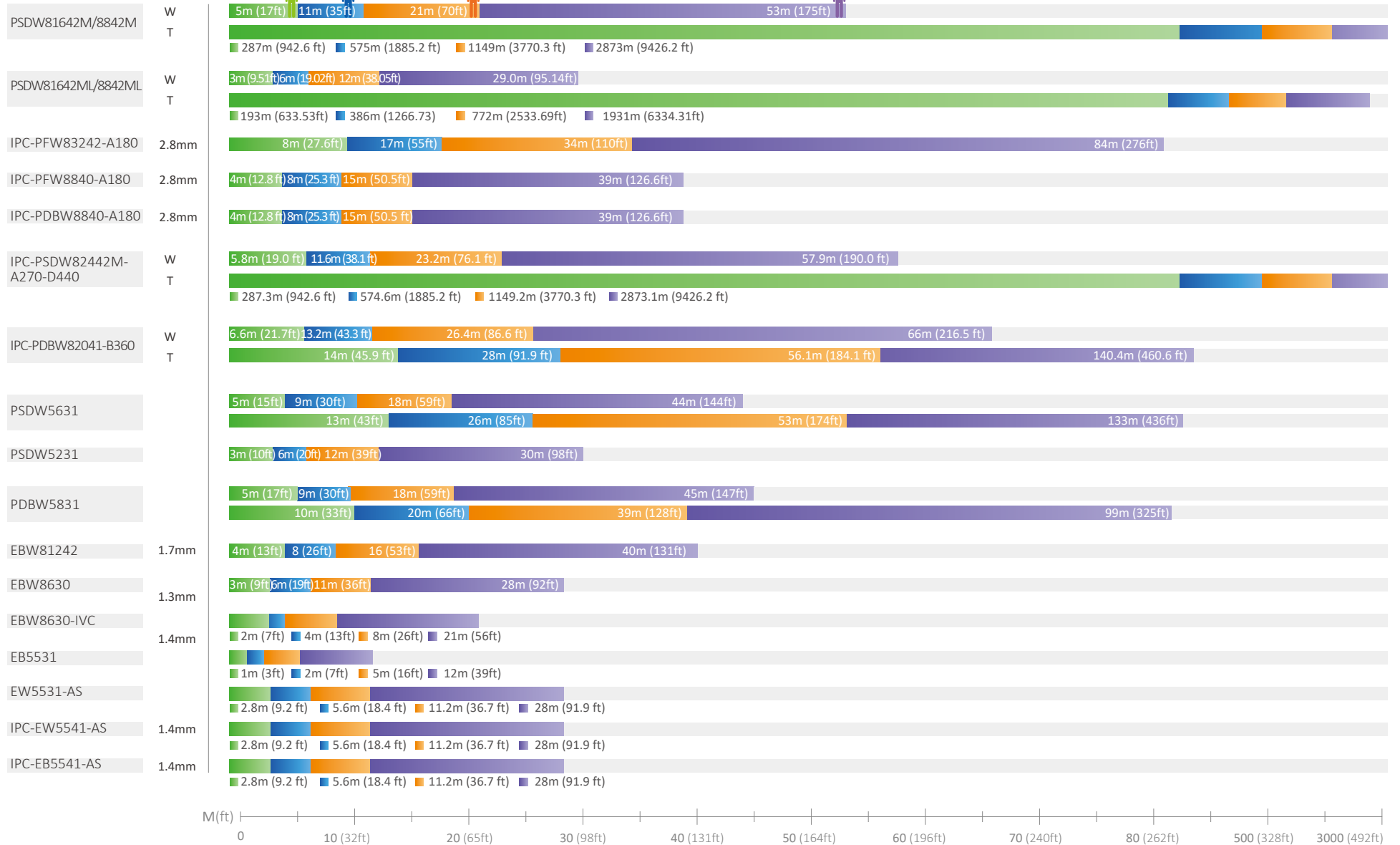
### WizMind 5 Series



# DORI DISTANCE (D/O/R/I)

## NETWORK CAMERAS

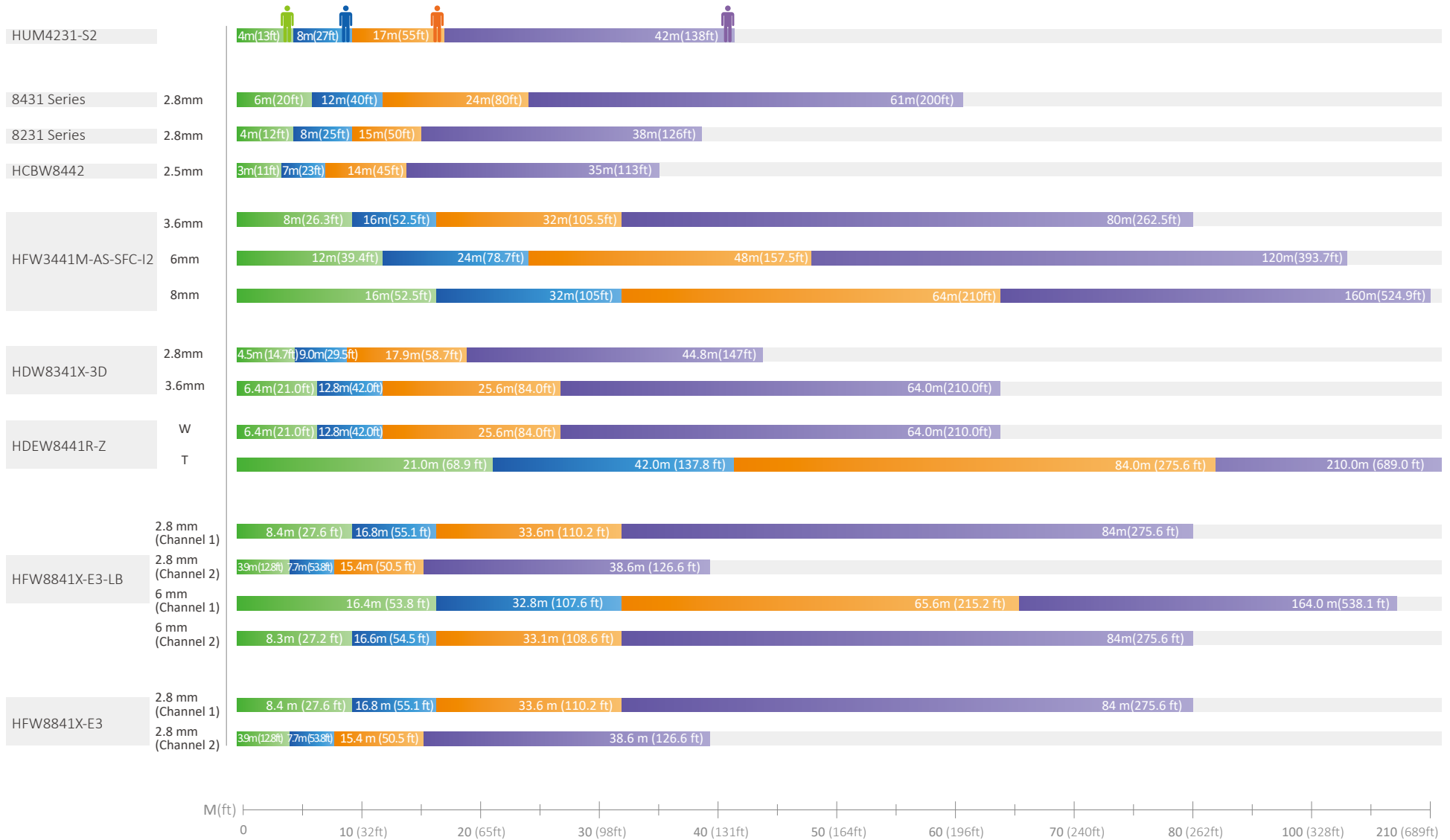
### Panoramic Series



# DORI DISTANCE (D/O/R/I)

## NETWORK CAMERAS

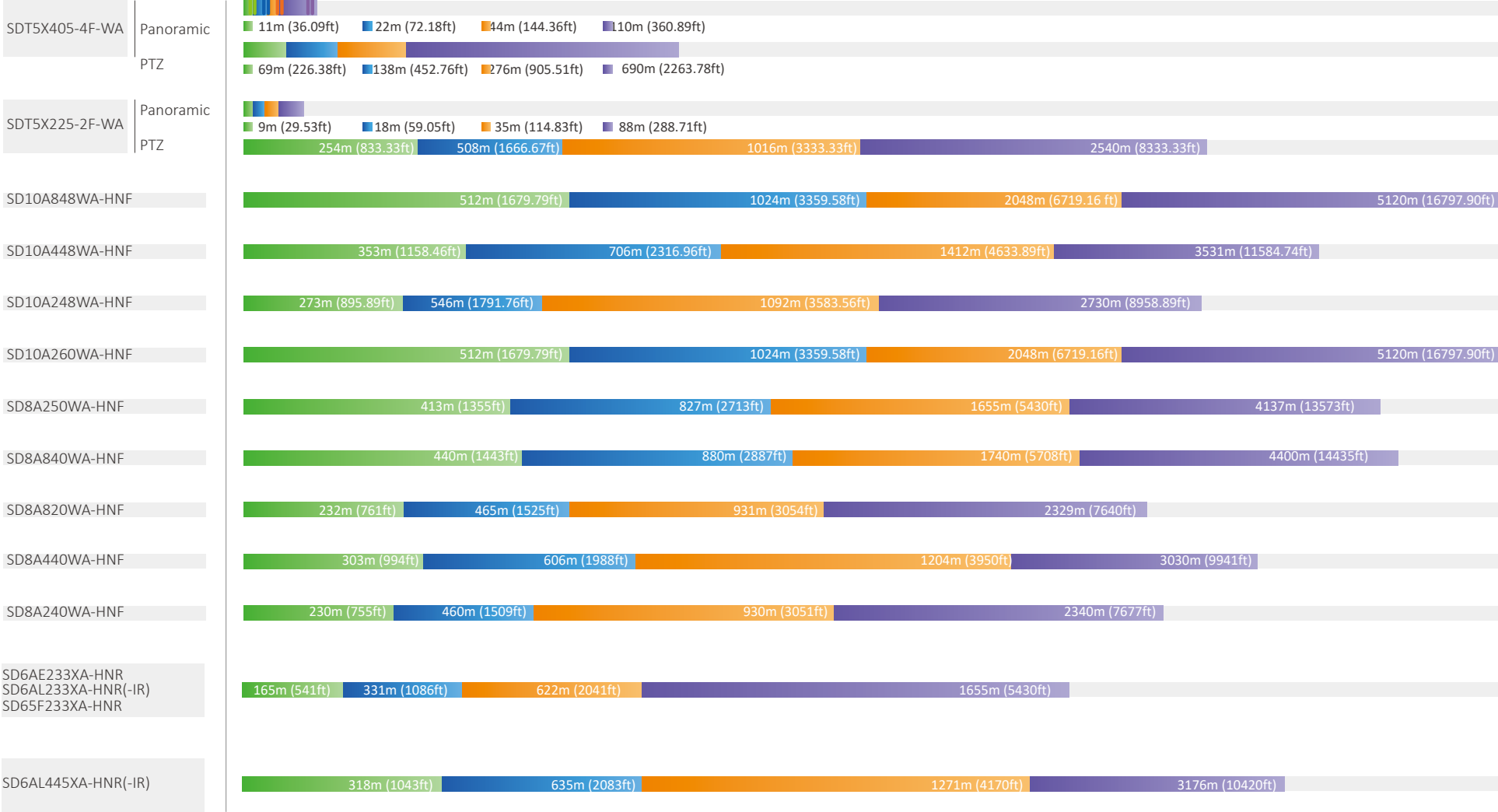
### Special Series



# DORI DISTANCE (D/O/R/I)

## NETWORK PTZ CAMERAS

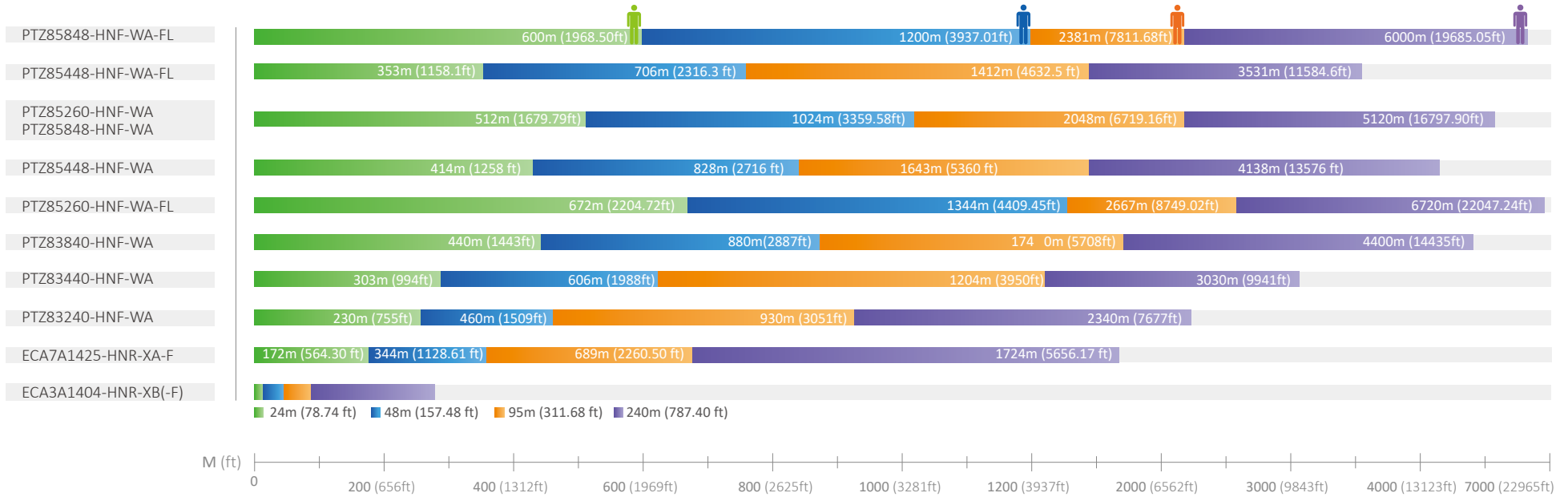
### WizMind Series



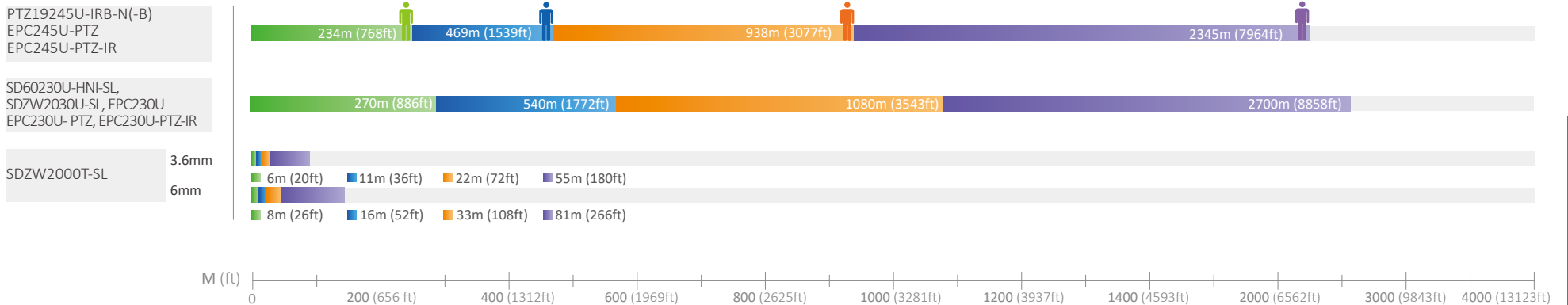
# DORI DISTANCE (D/O/R/I)

## NETWORK PTZ CAMERAS

### All-environment Series (AI)



### All-environment Series (Non-AI)



# DORI DISTANCE (D/R/I)

- Detection distance
- Recognition distance
- Identification distance

## NETWORK THERMAL CAMERAS

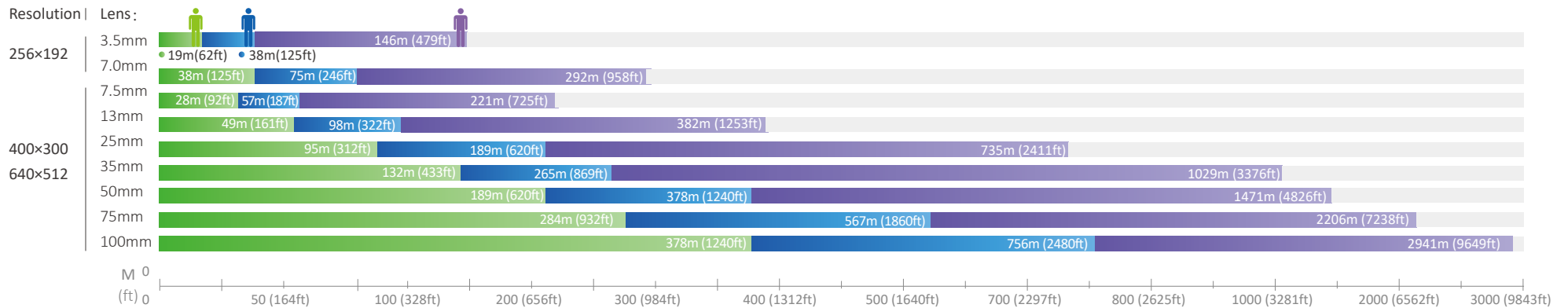
The DRI (Detection Recognition Identification) is defined in terms of the number of pixels on the object depend on a common standard, Johnson's criteria [[http://en.wikipedia.org/wiki/Johnson's\\_criteria](http://en.wikipedia.org/wiki/Johnson's_criteria)].

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

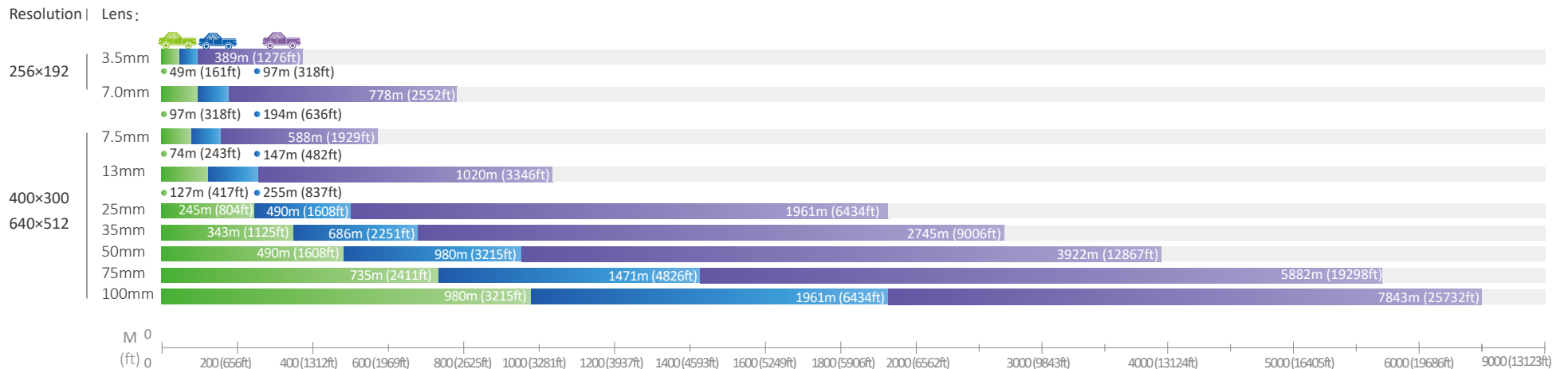
Recognition: Distinguish classification of objects [Human, Vehicle or Building]  
Required minimum pixels: Human 14 pixels, Vehicle 12 pixels

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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