

# IP VIDEO PROJECT PRODUCTS | 2023 Ver. 1

Network Cameras / PTZ / NVR / EVS / MPT / 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 cameras, and software platform, delivering precise, reliable and comprehensive AI solutions to verticals including, 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 offers 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



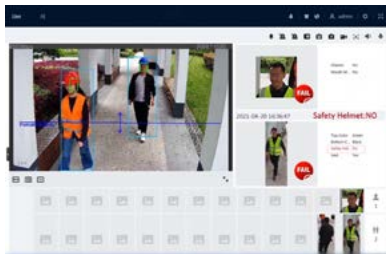




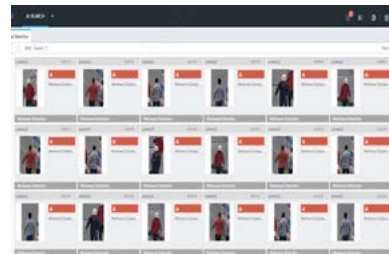
# Human Applications

## PPE Detection

Detects compliance of wearing Personal Protective Equipment in the site. Attributes that can be detected include workwear, hard hat, face mask, apron, gloves, shoe covers, boots, seatbelt, safety vest.



PPE Detection



AI Search

## 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%.



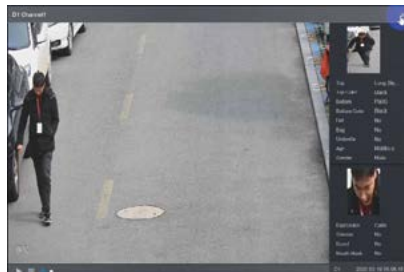
Face Mosaic



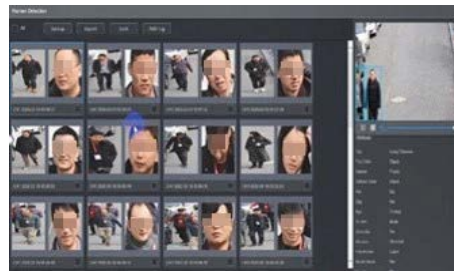
Recoverable Video

## 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. It supports 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, the 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.



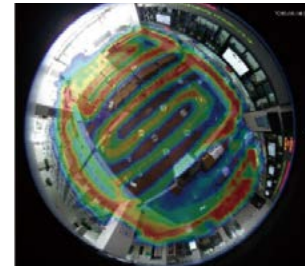
Fall Detection



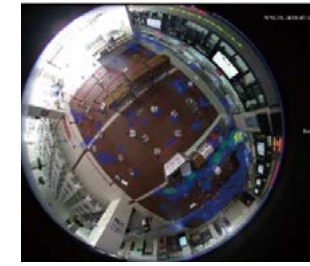
Violence Detection

## 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

## 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

## Smart Tracking

Aside from detecting humans entering a restricted area, smart tracking also automatically track objects all the time. Based on 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, the 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 in ensuring smooth traffic and reducing accidents and property losses caused by illegal parking.



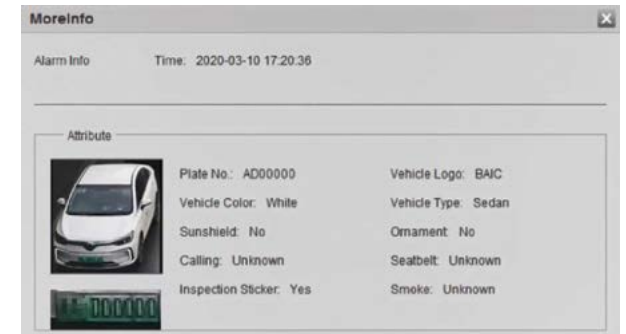
Illegal Parking Detection

## 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





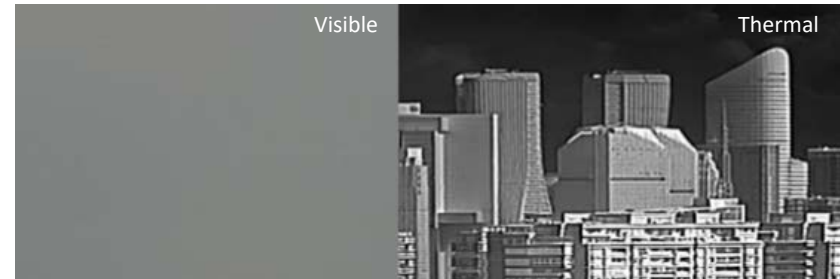
# Thermal Applications

## Long Range Perimeter Protection

With deep learning and thermal technology, this camera can realize long range perimeter protection 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.



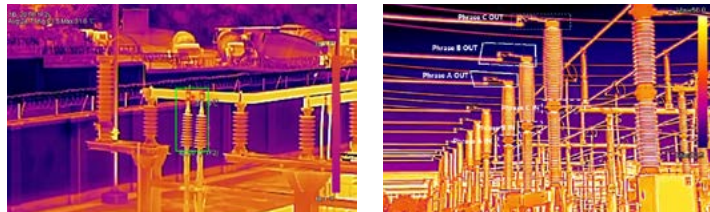
Ultra Long Range Detection up to 20km



Tested in Foggy Weather

## Industrial Temperature Measurement

There is a corresponding relationship between radiation energy and temperature. The different gray values can be used to represent difference in temperature in order to achieve an effective temperature measurement function. Dahua provides an online temperature measurement method that can be used in various industries, greatly save labor cost and increase the inspection efficiency.



Industry Temperature Measurement

## 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 Heat Detection

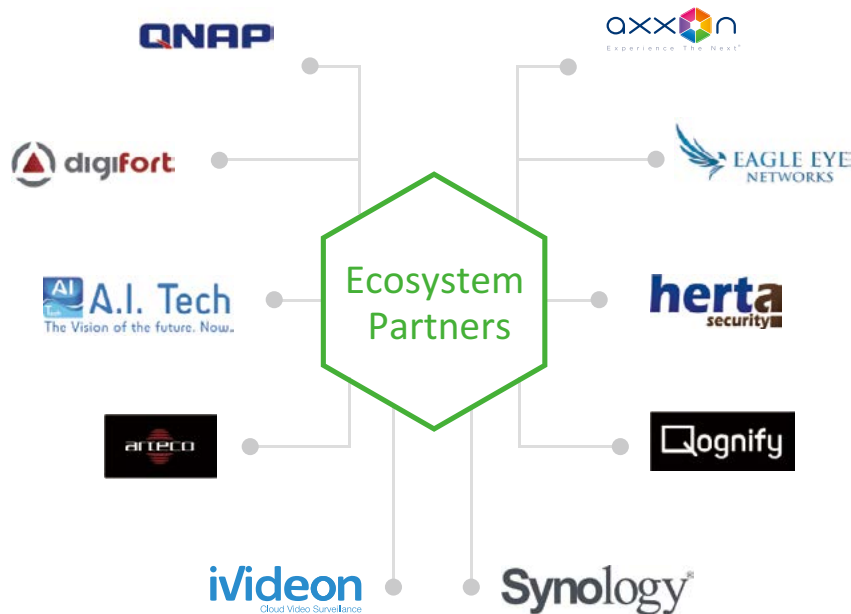


# WizMind Ecosystem

## Good Compatibility

Compatible with main video management system, like Milestone, Genetec, Axxon, Avigilon, ISS, Qognify, Luxriot, etc.

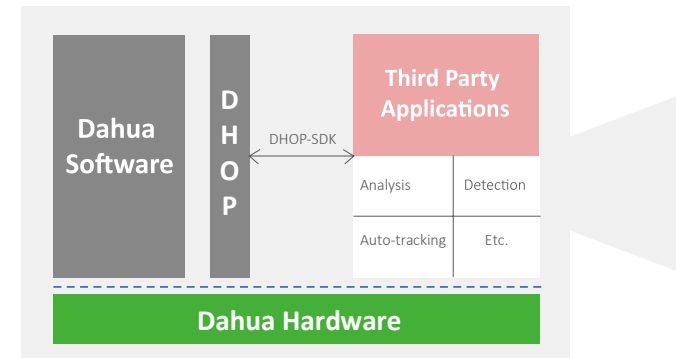
Supports advanced features with Milestone, Qognify, Network Optix, Luxriot and others, such as face recognition, people counting, perimeter protection, and heatmap.



## DHOP

· The Dahua Hardware Open Platform (WizMind IPC and thermal cameras) allows you to customize the camera based on your actual needs.

- More than 15 existing partners
- More than 18 applications available



## Sufficient API

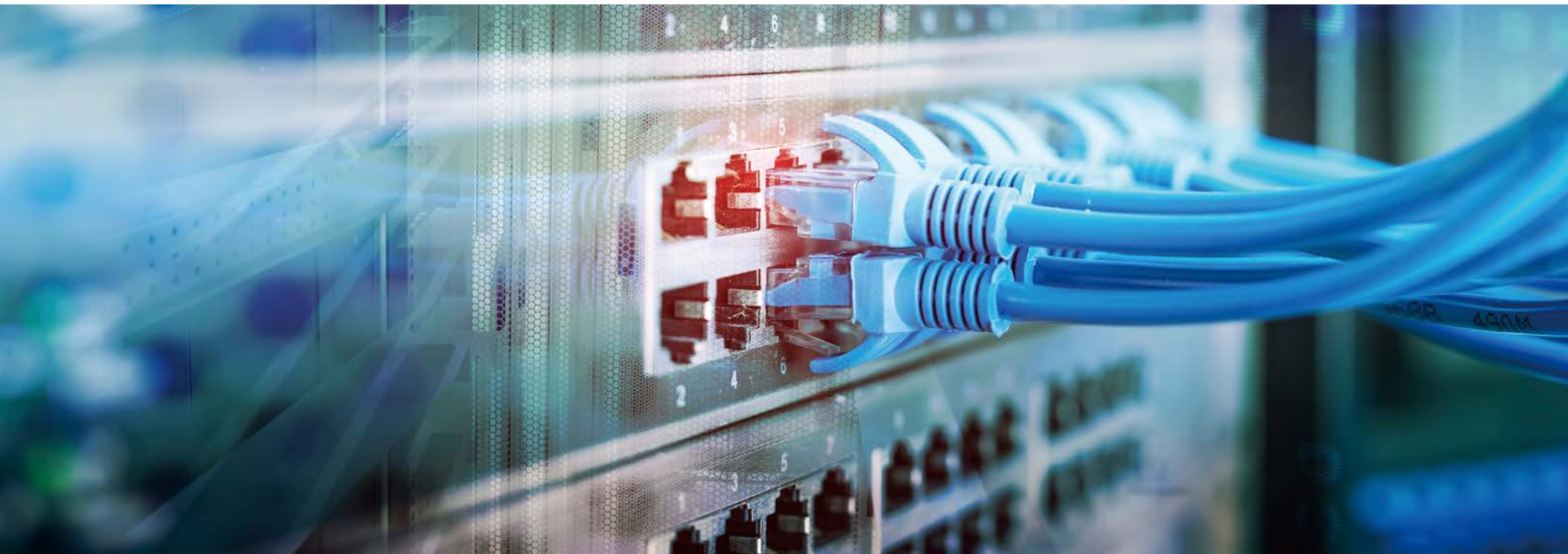
The sufficient API provided by Dahua allows any technology partners to communicate with WizMind products.

A strong customer support, together with a complete SDK demo and API document, are available in our website.



# ePoE

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



# 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.

## Highlights

Configuration and management on DSS platform for radar-PTZ smart tracking system.

Supports linkage of multiple PTZ cameras to one radar, or multiple radars to one PTZ camera, providing high-caliber set of alarms.





# NETWORK CAMERAS



# WizMind Series Network Camera

With advanced deep learning algorithm, the 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, works well with WDR and in low-light environment, and provides better solution for intelligent application.



## Perfect Performance

Adopts advanced AI technologies including deep learning algorithms.



## AI Functions

- Face Recognition
- Privacy Protection
- Video Metadata
- People Counting
- Perimeter Protection
- PPE Detection
- Heat Map
- Stereo Analysis
- Classroom Behavior Analysis
- Exam Behavior Analysis



## 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 images with the help of Ultra WDR (140dB), Starlight+, and/or Full-color.







## WizMind 8 Series

	Dual-lens Camera		Corner Camera
Model	IPC-HDW8441X-3D	IPC-HDW8341X-BV-3D	IPC-HCBW8442
Appearance	   	   	  
Image Sensor	Two 1/2.8" 4MP CMOS	Two 1/2.8" 3MP CMOS	1/1.8" 4MP CMOS
Focal Length	2.0mm/F2.0 2.8mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	2.5mm/F2.0
FOV-H	122°/95°	96°/79°	135°
Min. Illumination	2.0 mm: 0.007 lux@F2.0 (Color, 30 IRE) 0.0007 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on) 2.8 mm: 0.005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 Lux@F1.6 (Color,30 IRE) 0.0005 Lux@F1.6 (B/W,30 IRE) 0 Lux (Illuminator on)	0.004 Lux@F2.0 (Color, 30 IRE) 0.0004 Lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)
Day/Night	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W
WDR	120dB	DWDR	140dB
Illumination Distance	20m (65.62ft) (IR)	20m (65.62ft) (IR)	10m (32.8ft) (IR)
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)
Smart Codec	Supported	Supported	Supported
Max. Resolution	4MP (2560×1440)	3MP (2048×1536)	4MP (2688×1520)
Frame Rate	25/30 fps@4MP	25/30 fps@3MP	25/30 fps@4MP
Multi-streaming	3 streams	5 streams	3 streams
Angle Adjustment	Tilt:-10°~70°	Tilt: 0°~70°	Tilt:-10°~10°; Rotation: 0°~355°
Compatibility	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	2/1, Built-in Mic and Speaker	2/1, Built-in Mic and Speaker	1/1, Built-in Mic
Memory Slot	Micro SD, Max. 512GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	2 channel In: 5mA 3V~5V DC 2 channels out: 300 mA 12 VDC	2 channel In: 5mA 3V~5V DC 2 channel Out: 1,000mA 30V DC/500mA 50V DC	1 channel in: 5mA 3V~5V DC 1 channel out: 300mA 12V DC
Ingress Protection	IP67, IK10	IP67; IK10	IP67; IK10+ (50J)
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)
Power	12V DC/PoE (802.3af), Max. 12.9W	12V DC/PoE (802.3af)/ePoE, Max. 10.6W	12V DC/PoE (802.3af)/ePoE, Max. 11.5W
<b>Artificial Intelligence</b>			
Face Detection	Supported	Supported	--
Face Recognition	--	--	--
Video Metadata	--	--	--
Classroom Behavior Analysis	--	--	--
Exam Behavior Analysis	--	--	--
Perimeter Protection	Supported	Supported	Supported
People Counting	Supported	--	Supported
Stereo Analysis	--	Supported	--
<b>General Intelligence</b>			
IVS	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing

# NETWORK CAMERAS

## WizMind 8 Series

	Classroom Camera		High Temperature Tolerance Series	
Model	IPC-HDEW8841H-Z4-LB	IPC-HDEW8841H-Z-LB	IPC-HFS8849G-Z3-LED	IPC-HFS8449G-Z7-LED
Appearance	 <b>Wiz Mind</b> 4K Starlight	 <b>Wiz Mind</b> 4K Starlight+	 <b>Wiz Mind</b> 4K Polarlight	 <b>Wiz Mind</b> Polarlight
Image Sensor	1/1.8" 8MP CMOS	1/1.8" 8MP CMOS	1/1.2" 8MP CMOS	1/1.8" 4MP CMOS
Focal Length	8mm~32mm/F1.6	2.7mm~12mm/F1.2	12mm~36mm/F1.2	8mm~56mm/F1.2
FOV-H	42°~15°	112°~48°	50°~17°	41°~9°
Min. Illumination	0.005 lux@F1.6 (Color,30 IRE) 0.0005 lux@F1.6 (B/W,30 IRE) 0 lux (Illuminator on)	0.003 Lux@F1.2(Color,30 IRE) 0.0003 Lux@F1.2(B/W,30 IRE) 0 lux (Illuminator on)	0.0003 lux@F1.2(Color, 30 IRE) 0.0001 lux@F1.2 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0003 lux@F1.2(Color, 30 IRE) 0.0001 lux@F1.2 (B/W, 30 IRE) 0 lux (Illuminator on)
Day/Night	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Color	Color
WDR	120dB	120dB	120dB	120dB
Illumination Distance	80m (262.4ft) (IR)	40m (131.2ft) (IR)	80m (262.47ft) (Warm light)	80m (262.47ft) (Warm light)
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	Supported	Supported	Supported	Supported
Max. Resolution	8MP (3840×2160)	8MP (3840×2160)	8MP (3840×2160)	4MP (2688×1520)
Frame Rate	25/30 fps@8MP	25/30 fps@8MP	25/30 fps@8MP	25/30 fps@4MP
Multi-streaming	5 streams	5 streams	5 streams	5 streams
Angle Adjustment	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; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	1/1, Built-in Dual Mic, Built-in Speaker	1/1, Built-in Dual Mic, Built-in Speaker	2/1	2/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	3 channel in: 5mA 3V~5V DC 2 channel out: 1,000mA 30V DC/500mA 50V AC	3 channel in: 5mA 3V~5V DC 2 channel out: 1,000mA 30V DC/500mA 50V AC	3 channel in: 5mA 3V~5V DC 2 channel out: 1,000mA 30V DC/500mA 50V AC	3 channel in: 5mA 3V~5V DC 2 channel out: 1,000mA 30V DC/500mA 50V AC
Ingress Protection	IP67; IK10	IP67; IK10	IP67	IP67
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+75°C (-22°F~+167°F)	-30°C~+75°C (-22°F~+167°F)
Power	12V DC/24V AC/PoE (802.3at), Max. 15.8W	12V DC/24V AC/PoE (802.3at), Max. 15.8W	100~240V AC 0.6 A, Max. 26W	100~240V AC 0.6 A, Max. 26W
<b>Artificial Intelligence</b>				
Face Detection	--	--	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported
Video Metadata	--	--	Supported	Supported
Classroom Behavior Analysis	Supported	Supported	--	--
Exam Behavior Analysis	Supported	Supported	--	--
Perimeter Protection	--	--	Supported	Supported
People Counting	--	--	Supported	Supported
Stereo Analysis	--	--	--	--
<b>General Intelligence</b>				
IVS	--	--	Object Abandoned/Missing	Object Abandoned/Missing

## WizMind 7 Series




### Dual-Sight

Model	IPC-MFW7849Y-Z4-T44	IPC-MFW7449Y-Z7-T44	IPC-MFW7849Y-Z4-T8A	IPC-MFW7449Y-Z7-T8A
Appearance	 4K Polarlight	 Polarlight	 4K Polarlight	 Polarlight
Image Sensor	Channel 1: 1/1.2" CMOS; Channel 2: 1/1.8" CMOS	Channel 1: 1/1.8" CMOS; Channel 2: 1/1.8" CMOS	Channel 1: 1/1.2" CMOS; Channel 2: 1/1.8" CMOS	Channel 1: 1/1.8" CMOS; Channel 2: 1/1.8" CMOS
Focal Length	Channel 1: 20mm~80mm/F1.1 Channel 2: 8mm~32mm/F1.6	Channel 1: 8mm~56mm/F1.2 Channel 2: 8mm~32mm/F1.6	Channel 1: 20mm~80mm/F1.1 Channel 2: 3.6mm×2/F1.0	Channel 1: 8mm~56mm/F1.2 Channel 2: 3.6mm×2/F1.0
FOV-H	Channel 1: 27°~9°; Channel 2: 42°~15°	Channel 1: 41°~9°; Channel 2: 42°~15°	Channel 1: 27°~9°; Channel 2: 180°	Channel 1: 41°~9°; Channel 2: 180°
Min. Illumination	Channel 1: 0.0003 lux@F1.1(Color,30 IRE) 0 lux (Illuminator on) Channel 2: 0.0005 lux@F1.6(Color,30 IRE) 0.0002 lux@F1.6(B/W,30 IRE) 0 lux (Illuminator on)	Channel 1: 0.0004 lux@F1.2(Color,30 IRE) 0.0001 lux@F1.2(B/W,30 IRE) 0 lux (Illuminator on) Channel 2: 0.0005 lux@F1.6(Color,30 IRE) 0.0002 lux@F1.6(B/W,30 IRE) 0 lux (Illuminator on)	Channel 1: 0.0003 lux@F1.1(Color,30 IRE) 0 lux (Illuminator on) Channel 2: 0.0003 lux@F1.0(Color,30 IRE) 0 lux (Illuminator on)	Channel 1: 0.0004 lux@F1.2 (Color,30 IRE) 0.0001 lux@F1.2 (B/W,30 IRE) 0 lux (Illuminator on) Channel 2: 0.0003 lux@F1.0 (Color,30 IRE) 0 lux (Illuminator on)
Day/Night	Color/B/W	Auto(ICR)/Color/B/W	Color/B/W	Auto(ICR)/Color/B/W
WDR	120dB	140dB	120dB	140dB
Illumination Distance	Channel 1: 80m (262.47ft) (warm light); Channel 2: 120m (393.70ft) (IR); 80m (262.47ft) (warm light)	Channel 1: 150m (492.13ft) (IR); 80m (262.47ft) (warm light); Channel 2: 120m (393.70ft) (IR); 80m (262.47ft) (warm light)	Channel 1: 80m (262.47ft) (warm light) Channel 2: 30m (98.43ft) (warm light )	Channel 1: 150m (492.13ft) (IR); 80m (262.47ft) (warm light); Channel 2: 30m (98.43ft) (warm light )
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	Supported	Supported	Supported	Supported
Max. Resolution	Channel 1: 8MP (3840×2160) Channel 2: 4MP (2688×1520)	Channel 1: 4MP (2688×1520) Channel 2: 4MP (2688×1520)	Channel 1: 8MP (3840×2160) Channel 2: 8MP (4976×1452)	Channel 1: 4MP (2688×1520) Channel 2: 8MP (4976×1452)
Frame Rate	Channel 1: 25/30fps@8MP Channel 2: 25/30fps@4MP	Channel 1: 25/30fps@4MP Channel 2: 25/30fps@4MP	Channel 1: 25/30fps@8MP Channel 2: 25/30fps@8MP	Channel 1: 25/30fps@8MP Channel 2: 25/30fps@8MP
Multi-streaming	Channel 1: 3 streams; Channel 2: 3 streams	Channel 1: 3 streams; Channel 2: 3 streams	Channel 1: 3 streams; Channel 2: 3 streams	Channel 1: 3 streams; Channel 2: 3 streams
Angle Adjustment	Channel 1: Tilt: ±5°; Channel 2: Tilt: ±15°	Channel 1: Tilt: ±5°; Pan: ±13°; Channel 2: Tilt: ±15°	Channel 1: Tilt: ±5°; Channel 2: Tilt: ±15°	Channel 1: Tilt: ±5°; Pan: ±13°; Channel 2: Tilt: ±15°
Compatibility	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK
Audio In/Out	2/1	2/1	2/1	2/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	7 channels in: 5mA 3V~5V DC 3 channels out: 1,000mA 30V DC/500mA 50V AC	7 channels in: 5mA 3V~5V DC 3 channels out: 1,000mA 30V DC/500mA 50V AC	7 channels in: 5mA 3V~5V DC 3 channels out: 1,000mA 30V DC/500mA 50V AC	7 channels in: 5mA 3V~5V DC 3 channels out: 1,000mA 30V DC/500mA 50V AC
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	12V DC, 4A, Max. 36.1W	12V DC, 4A, Max. 36.1W	12V DC, 4A, Max. 44.8W	12V DC, 4A, Max. 44.8W
<b>Artificial Intelligence</b>				
Face Detection	Channel 1: Supported; Channel 2: Supported	Channel 1: Supported; Channel 2: Supported	Channel 1: Supported	Channel 1: Supported
Face Recognition	Channel 1: Supported; Channel 2: Supported	Channel 1: Supported; Channel 2: Supported	Channel 1: Supported	Channel 1: Supported
Video Metadata	Channel 1: Supported; Channel 2: Supported	Channel 1: Supported; Channel 2: Supported	Channel 1: Supported	Channel 1: Supported
Privacy Protection	--	--	--	--
Crowd Distribution Map	Channel 2: Supported	Channel 2: Supported	Channel 2: Supported	Channel 2: Supported
Face and Body Detection	--	--	--	--
Perimeter Protection	Channel 1: Supported; Channel 2: Supported	Channel 1: Supported; Channel 2: Supported	Channel 1: Supported; Channel 2: Supported	Channel 1: Supported; Channel 2: Supported
People Counting	Channel 2: Supported	Channel 2: Supported	Channel 2: Supported	Channel 2: Supported
<b>General Intelligence</b>				
IVS	Object Abandoned/Missing (Channel 1 & Channel 2)	Object Abandoned/Missing (Channel 1 & Channel 2)	Object Abandoned/Missing (Channel 1 & Channel 2)	Object Abandoned/Missing (Channel 1 & Channel 2)

# NETWORK CAMERAS

## WizMind 7 Series







### Dual-Sight

Model	IPC-MFW7842K1-Z7-T20	IPC-MFW7842K1-Z4-T20	IPC-MFW7442K1-Z7-T40	IPC-MFW7442K1-Z4-T40
Appearance	 4K Starlight+	 4K Starlight+	 Starlight+	 Starlight+
Image Sensor	Channel 1: 1/1.7" CMOS Channel 2: 1/2.7" CMOS	Channel 1: 1/1.7" CMOS Channel 2: 1/2.7" CMOS	Channel 1: 1/1.7" CMOS Channel 2: 1/2.7" CMOS	Channel 1: 1/1.7" CMOS Channel 2: 1/2.7" CMOS
Focal Length	Channel 1: 8mm~56mm/F1.2 Channel 2: 3.6mm/F1.0	Channel 1: 8mm~32mm/F1.6 Channel 2: 3.6mm/F1.0	Channel 1: 8mm~56mm/F1.2 Channel 2: 3.6mm/F1.0	Channel 1: 8mm~32mm/F1.6 Channel 2: 3.6mm/F1.0
FOV-H	Channel 1: 40°~9° Channel 2: 81°	Channel 1: 43°~15° Channel 2: 81°	Channel 1: 40°~9° Channel 2: 81°	Channel 1: 43°~15° Channel 2: 81°
Min. Illumination	Channel 1: 0.0015 lux@F1.2 (Color,30 IRE) 0.0003 lux@F1.2 (B/W,30 IRE) 0 lux (Illuminator on) Channel 2: 0.002@F1.0 lux (Color,30 IRE) 0 lux (Illuminator on)	Channel 1: 0.002 lux@F1.6 (Color,30 IRE) 0.0003 lux@F1.6 (B/W,30 IRE) 0 lux (Illuminator on) Channel 2: 0.002 lux@F1.0 (Color,30 IRE) 0 lux (Illuminator on)	Channel 1: 0.001 lux@F1.2 (Color,30 IRE) 0.0001 lux@F1.2 (B/W,30 IRE) 0 lux (Illuminator on) Channel 2: 0.002@F1.0 lux (Color,30 IRE) 0 lux (Illuminator on)	Channel 1: 0.0015 lux@F1.6 (Color,30 IRE) 0.0001 lux@F1.6 (B/W,30 IRE) 0 lux (Illuminator on) Channel 2: 0.002 lux@F1.0 (Color,30 IRE) 0 lux (Illuminator on)
Day/Night	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W
WDR	120dB	120 dB	120 dB	120 dB
Illumination Distance	Channel 1: 120m (393.70ft) (IR) 80m (262.47ft) (warm light)	Channel 1: 100m (328.08ft) (IR) 60m (196.85ft) (warm light)	Channel 1: 120m (393.70ft) (IR) 80m (262.47ft) (warm light)	Channel 1:100m (328.08ft) (IR) 60m (196.85ft) (warm light)
Video Compression	Channel 2: 30m (98.43ft) (warm light ) H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)	Channel 2: 30m (98.43ft) (warm light ) H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)	Channel 2: 30m (98.43ft) (warm light ) H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)	Channel 2: 30m (98.43ft) (warm light ) H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Supported	Supported	Supported	Supported
Max. Resolution	Channel 1: 8MP (3840×2160) Channel 2: 2MP (1920×1080)	Channel 1: 8MP (3840×2160) Channel 2: 2MP (1920×1080)	Channel 1: 4MP (2688×1520) Channel 2: 4MP (2688×1520)	Channel 1: 4MP (2688×1520) Channel 2: 4MP (2688×1520)
Frame Rate	Channel 1: 25/30fps@8MP Channel 2: 25/30fps@2MP	Channel 1: 25/30fps@8MP Channel 2: 25/30fps@2MP	Channel 1: 25/30fps@8MP Channel 2: 25/30fps@4MP	Channel 1: 25/30fps@4MP Channel 2: 25/30fps@4MP
Multi-streaming	Channel 1: 3 streams Channel 2: 3 streams	Channel 1: 3 streams Channel 2: 3 streams	Channel 1: 3 streams Channel 2: 3 streams	Channel 1: 3 streams Channel 2: 3 streams
Angle Adjustment	--	--	--	--
Compatibility	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK
Audio In/Out	2/1, Built-in Dual Mic, Built-in Speaker	2/1, Built-in Dual Mic, Built-in Speake	2/1, Built-in Dual Mic, Built-in Speake	2/1, Built-in Dual Mic, Built-in Speake
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 3~5V DC 2 channels out: 300mA 12V DC	3 channels in: 5mA 3~5V DC 2 channels out: 300mA 12V DC	3 channels in: 5mA 3~5V DC 2 channels out: 300mA 12V DC	3 channels in: 5mA 3~5V DC 2 channels out: 300mA 12V DC
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	12V DC/POE(802.3at), Max. 24.6W	12V DC/POE(802.3at), Max. 24.6W	12V DC/POE(802.3at), Max. 24.6W	12V DC/POE(802.3at), Max. 24.6W
<b>Artificial Intelligence</b>				
Face Detection	Channel 1: Supported	Channel 1: Supported	Channel 1: Supported	Channel 1: Supported
Face Recognition	Channel 1: Supported	Channel 1: Supported	Channel 1: Supported	Channel 1: Supported
Video Metadata	Channel 1: Supported	Channel 1: Supported	Channel 1: Supported	Channel 1: Supported
Perimeter Protection	Channel 1: Supported	Channel 1: Supported	Channel 1: Supported	Channel 1: Supported
People Counting	Channel 1: Supported	Channel 1: Supported	Channel 1: Supported	Channel 1: Supported
<b>General Intelligence</b>				
IVS	Object Abandoned/Missing (Channel 1)	Object Abandoned/Missing (Channel 1)	Object Abandoned/Missing (Channel 1)	Object Abandoned/Missing (Channel 1)



# NETWORK CAMERAS





## WizMind 7 Series

	Box Camera		Vari-focal Bullet			
Model	IPC-HF7842F-Z-S2	IPC-HF7442F-Z-S2	IPC-HFW7842H-Z-S2	IPC-HFW7842H-Z4-S2	IPC-HFW7442H-Z-S2	IPC-HFW7442H-Z4-S2
Appearance						
Image Sensor	1/1.8" 8MP CMOS	1/1.8" 4MP CMOS	1/1.8" 8MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS
Focal Length	C/CS	C/CS	2.7mm~12mm/F1.2	8mm~32mm/F1.6	2.7mm~12mm/F1.2	8mm~32mm/F1.6
FOV-H	--	--	112°~47°	40°~15°	114°~48°	41°~15°
Min. Illumination	0.005 Lux@F1.5 (Color, 30 IRE) 0.0005 Lux@F1.5 (B/W, 30 IRE)	0.001 Lux@F1.5 (Color, 30 IRE) 0.0002 Lux@F1.5 (B/W, 30 IRE)	0.003 lux@F1.2 (Color, 30 IRE) 0.0003 lux@F1.2 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.001 Lux@F1.2 (Color, 30 IRE) 0.0002 Lux@F1.2 (B/W, 30 IRE) 0 Lux (Illuminator on)	0.001 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
Day/Night	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W
WDR	120dB	140dB	120dB	120dB	140dB	140dB
Illumination Distance	--	--	60m (196.9 ft) (IR)	120m (393.7ft) (IR)	60m (196.9 ft) (IR)	120m (393.7ft) (IR)
Video Compression	H.265; H.264; H.264H; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; MJPEG (only supported by the sub stream)
Smart Codec	Supported	Supported	Supported	Supported	Supported	Supported
Max. Resolution	8MP (3840×2160)	4MP (2688×1520)	8MP (3840×2160)	8MP (3840×2160)	4MP (2688×1520)	4MP (2688×1520)
Frame Rate	25/30fps@8MP	50/60fps@4MP	25/30fps@8MP	25/30fps@8MP	50/60fps@4MP	50/60fps@4MP
Multi-streaming	5 streams	5 streams	5 streams	5 streams	5 streams	5 streams
Angle Adjustment	--	--	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; SDK	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK
Audio In/Out	2/1, Built-in Mic	2/1, Built-in Mic	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	2 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	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, Anti-Corrosion Protection: NEMA 4X (optional)	IP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)	IP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)	IP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)
Working Temperature	-30°C ~ +60°C (-22°F ~ +140°F)	-30°C ~ +60°C (-22°F ~ +140°F)	-40°C ~ +65°C (-40°F ~ +149°F)	-40°C ~ +65°C (-40°F ~ +149°F)	-40°C ~ +65°C (-40°F ~ +149°F)	-40°C ~ +65°C (-40°F ~ +149°F)
Power	12V DC/24V AC/POE+(802.3at), Max. 17.75W	12V DC/24V AC/POE+(802.3at), Max. 17.75W	12V DC/24V AC/POE+(802.3at), Max. 21.3W	12V DC/24V AC/POE+(802.3at), Max. 21.3W	12V DC/24V AC/POE+(802.3at), Max. 21.3W	12V DC/24V AC/POE+(802.3at), Max. 21.3W
<b>Artificial Intelligence</b>						
Face Detection	Supported	Supported	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported	Supported	Supported
Video Metadata	Supported	Supported	Supported	Supported	Supported	Supported
Privacy Protection	--	Supported	--	--	Supported	Supported
Crowd Distribution Map	--	--	--	--	--	--
Face and Body Detection	Supports General mode and PPE detection					
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection					
People Counting	Supported	Supported	Supported	Supported	Supported	Supported
<b>General Intelligence</b>						
IVS	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing

# NETWORK CAMERAS

## WizMind 7 Series

### Vari-focal Dome

Model	IPC-HDBW7842H-Z-S2	IPC-HDBW7842H-Z4-S2	IPC-HDBW7442H-Z-S2	IPC-HDBW7442H-Z4-S2
Appearance	 <b>WizMind</b> 4K Starlight+	 <b>WizMind</b> 4K Starlight	 <b>WizMind</b> Starlight+	 <b>WizMind</b> Starlight+
Image Sensor	1/1.8" 8MP CMOS	1/1.8" 8MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS
Focal Length	2.7mm~12mm/F1.2	8mm~32mm/F1.6	2.7mm~12mm/F1.2	8mm~32mm/F1.6
FOV-H	112°~47°	40°~15°	114°~48°	41°~15°
Min. Illumination	0.003 lux@F1.2 (Color, 30 IRE) 0.0003 lux@F1.2 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 Lux@F1.6 (Color, 30 IRE) 0.0005 Lux@F1.6 (B/W, 30 IRE) 0 Lux (Illuminator on)	0.001 lux@F1.2 (Color, 30 IRE) 0.0002 lux@F1.2 (B/W, 30 IRE) 0 lux (Illuminator on)	0.001 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
Day/Night	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W
WDR	120dB	120dB	140dB	140dB
Illumination Distance	40m (131.23ft) (IR)	80m (262.5ft) (IR)	40m(131.23 ft) (IR)	80m (262.5 ft) (IR)
Video Compression	H.265; H.264; H.264H; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; MJPEG (only supported by the sub stream)	H.265; H.264; H.264H; MJPEG (only supported by the sub stream)
Smart Codec	Supported	Supported	Supported	Supported
Max. Resolution	8MP (3840×2160)	8MP (3840×2160)	4MP (2688×1520)	4MP (2688×1520)
Frame Rate	25/30fps@8MP	25/30fps@8MP	50/60fps@4MP	50/60fps@4MP
Multi-streaming	5 streams	5 streams	5 streams	5 streams
Angle Adjustment	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; SDK	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK
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, Anti-Corrosion Protection: NEMA 4X (optional)	IP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)	IP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)	IP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)
Working Temperature	-40°C ~ +65°C (-40°F ~ +149°F)	-40°C ~ +65°C (-40°F ~ +149°F)	-40°C ~ +65°C (-40°F ~ +149°F)	-40°C ~ +65°C (-40°F ~ +149°F)
Power	12V DC/24V AC/POE+(802.3at), Max. 22.82W	12V DC/24V AC/POE+(802.3at), Max. 22.82W	12V DC/24V AC/POE+(802.3at), Max. 22.38W	12V DC/24V AC/POE+(802.3at), Max. 22.38W
<b>Artificial Intelligence</b>				
Face Detection	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported
Video Metadata	Supported	Supported	Supported	Supported
Privacy Protection	--	--	Supported	Supported
Crowd Distribution Map	--	--	--	--
Face and Body Detection	Supports General mode and PPE detection			
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection			
People Counting	Supported	Supported	Supported	Supported
<b>General Intelligence</b>				
IVS	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing



# Innovative, Breakthrough, Powerful



10+  
AI Algorithms



AI-Powered  
Image



Privacy  
Protection+












Intelligent  
Audiovisual



# NETWORK CAMERAS

## WizMind X Series

### Box Camera

Model	IPC-HF71242F-Z-X	IPC-HF7842F-Z-X	IPC-HF7442F-Z-X
Appearance	    	    	   
Image Sensor	1/1.7" 12MP CMOS	1/1.8" 8MP CMOS	1/1.8" 4MP CMOS
Focal Length	C/CS	C/CS	C/CS
FOV-H	--	--	--
Min. Illumination	0.0009 Lux@F1.6 (Color, 30 IRE) 0.0005 Lux@F1.6 (B/W, 30 IRE)	0.0006 Lux@F1.2 (Color, 30 IRE) 0.0003 Lux@F1.2 (Color, 30 IRE)	0.0005 Lux@F1.2 (Color, 30 IRE) 0.0002 Lux@F1.2 (Color, 30 IRE)
Day/Night	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W
WDR	DWDR	120dB	140dB
Illumination 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)
Smart Codec	Supported	Supported	Supported
Max. Resolution	12MP (4000×3000)	8MP (3840×2160)	4MP (2688×1520)
Frame Rate	25/30fps@12MP	50/60fps@8MP	50/60fps@4MP
Multi-streaming	5 streams	5 streams	5 streams
Angle Adjustment	--	--	--
Compatibility	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK
Audio In/Out	2/1, Built-in Mic	2/1, Built-in Mic	2/1, Built-in Mic
Memory Slot	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB
Alarm In/Out	2 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC	2 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC	2 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC
Ingress Protection	--	--	--
Working Temperature	-30°C ~ +60°C (-22°F ~ +140°F)	-30°C ~ +60°C (-22°F ~ +140°F)	-30°C ~ +60°C (-22°F ~ +140°F)
Power	12V DC/24V AC/POE+(802.3at)/ePoE, Max. 17.1W	12V DC/24V AC/POE+(802.3at)/ePoE, Max. 17.1W	12V DC/24V AC/POE+(802.3at)/ePoE, Max. 17.1W
<b>Artificial Intelligence</b>			
Face Detection	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported
Video Metadata	Supported	Supported	Supported
Privacy Protection	--	Supported	Supported
ANPR	Supported	Supported	Supported
Parking Space Management	Supported	Supported	Supported
PPE Detection	Supported	Supported	Supported
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection		
People Counting	Supported	Supported	Supported
<b>General Intelligence</b>			
IVS	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing



## WizMind X Series


### Vari-focal Bullet

Model	IPC-HFW71242H-Z-X	IPC-HFW7842H-Z-X	IPC-HFW7842H-Z4-X	IPC-HFW7442H-Z-X	IPC-HFW7442H-Z4-X
Appearance	 <b>4K DeepLight</b>	 <b>4K DeepLight</b>	 <b>4K DeepLight</b>	 <b>DeepLight</b>	 <b>DeepLight</b>
Image Sensor	1/1.7" 12MP CMOS	1/1.8" 8MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS
Focal Length	2.7mm~12mm/F1.6	2.7mm~12mm/F1.2	8mm~32mm/F1.6	2.7mm~12mm/F1.2	8mm~32mm/F1.6
FOV-H	106°~45°	105°~48°	42°~15°	107°~48°	43°~15°
Min. Illumination	0.0009 Lux@F1.6 (Color, 30 IRE) 0.0005 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0006 Lux@F1.2 (Color, 30 IRE) 0.0003 Lux@F1.2 (Color, 30 IRE) 0 lux (Illuminator on)	0.0007 Lux@F1.6 (Color, 30 IRE) 0.0004 Lux@F1.2 (Color, 30 IRE) 0 lux (Illuminator on)	0.0005 Lux@F1.2 (Color, 30 IRE) 0.0002 Lux@F1.6 (Color, 30 IRE) 0 lux (Illuminator on)	0.0006 Lux@F1.6 (Color, 30 IRE) 0.0003 Lux@F1.6 (Color, 30 IRE) 0 lux (Illuminator on)
Day/Night	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W
WDR	DWDR	120dB	120dB	140dB	140dB
Illumination Distance	60m (196.9 ft) (IR)	60m (196.9 ft) (IR)	120m (393.7ft) (IR)	60m (196.9 ft) (IR)	120m (393.7ft) (IR)
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	Supported	Supported	Supported	Supported	Supported
Max. Resolution	12MP (4000×3000)	8MP (3840×2160)	8MP (3840×2160)	4MP (2688×1520)	4MP (2688×1520)
Frame Rate	25/30fps@12MP	50/60fps@8MP	50/60fps@8MP	50/60fps@4MP	50/60fps@4MP
Multi-streaming	5 streams	5 streams	5 streams	5 streams	5 streams
Angle Adjustment	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; SDK	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK
Audio In/Out	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB
Alarm In/Out	3 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC	3 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC	3 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC	3 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC	3 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC
Ingress Protection	IP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)	IP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)	IP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)	IP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)	IP67, IK10, Anti-Corrosion Protection: NEMA 4X (optional)
Working Temperature	-40°C ~ +65°C (-40°F ~ +149°F)	-40°C ~ +65°C (-40°F ~ +149°F)	-40°C ~ +65°C (-40°F ~ +149°F)	-40°C ~ +65°C (-40°F ~ +149°F)	-40°C ~ +65°C (-40°F ~ +149°F)
Power	12V DC/24V AC/POE+(802.3at)/ePoE, Max. 24.3W	12V DC/24V AC/POE+(802.3at)/ePoE, Max. 24.3W	12V DC/24V AC/POE+(802.3at)/ePoE, Max. 24.3W	12V DC/24V AC/POE+(802.3at)/ePoE, Max. 24.3W	12V DC/24V AC/POE+(802.3at)/ePoE, Max. 24.3W
<b>Artificial Intelligence</b>					
Face Detection	Supported	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported	Supported
Video Metadata	Supported	Supported	Supported	Supported	Supported
Privacy Protection	--	Supported	Supported	Supported	Supported
ANPR	Supported	Supported	Supported	Supported	Supported
Parking Space Management	Supported	Supported	Supported	Supported	Supported
PPE Detection	Supported	Supported	Supported	Supported	Supported
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection				
People Counting	Supported	Supported	Supported	Supported	Supported
<b>General Intelligence</b>					
IVS	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing

# NETWORK CAMERAS

## WizMind X Series

### Vari-focal Dome

Model	IPC-HDBW71242E1-Z-X	IPC-HDBW7842E1-Z-X	IPC-HDBW7842E1-Z4-X	IPC-HDBW7442E1-Z-X	IPC-HDBW7442E1-Z4-X
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
Focal Length	2.7mm~12mm/F1.6	2.7mm~12mm/F1.2	8mm~32mm/F1.6	2.7mm~12mm/F1.2	8mm~32mm/F1.6
FOV-H	106°~45°	105°~48°	42°~15°	107°~48°	43°~15°
Min. Illumination	0.0009 Lux@F1.6 (Color, 30 IRE) 0.0005 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0006 Lux@F1.2 (Color, 30 IRE) 0.0003 Lux@F1.2 (Color, 30 IRE) 0 lux (Illuminator on)	0.0007 Lux@F1.6 (Color, 30 IRE) 0.0004 Lux@F1.6 (Color, 30 IRE) 0 lux (Illuminator on)	0.0005 Lux@F1.2 (Color, 30 IRE) 0.0002 Lux@F1.6 (Color, 30 IRE) 0 lux (Illuminator on)	0.0006 Lux@F1.6 (Color, 30 IRE) 0.0003 Lux@F1.2 (Color, 30 IRE) 0 lux (Illuminator on)
Day/Night	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W
WDR	DWDR	120dB	120dB	140dB	140dB
Illumination Distance	40m (131.23ft) (IR)	40m (131.23ft) (IR)	80m (262.5ft) (IR)	40m (131.23 ft) (IR)	80 m (262.5 ft) (IR)
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	Supported	Supported	Supported	Supported	Supported
Max. Resolution	12MP (4000×3000)	8MP (3840×2160)	8MP (3840×2160)	4MP (2688×1520)	4MP (2688×1520)
Frame Rate	25/30fps@12MP	50/60fps@8MP	50/60fps@8MP	50/60fps@4MP	50/60fps@4MP
Multi-streaming	5 streams	5 streams	5 streams	5 streams	5 streams
Angle Adjustment	Pan:0°~355°; Tilt:0°~80°; Rotation:0°~355°	Pan:0°~355°; Tilt:0°~80°; Rotation:0°~355°	Pan:0°~355°; Tilt:0°~80°; Rotation:0°~355°	Pan:0°~355°; Tilt:0°~80°; Rotation:0°~355°	Pan:0°~355°; Tilt:0°~80°; Rotation:0°~355°
Compatibility	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK	ONVIF (Profile S&G&T), CGI; SDK
Audio In/Out	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB
Alarm In/Out	3 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC	3 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC	3 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC	3 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC	3 channels in: 5mA 5V DC 2 channels out: 1000mA 30V DC/500mA 50V AC
Ingress Protection	IP67, IK10, Anti-corrosion (optional)	IP67, IK10, Anti-corrosion (optional)	IP67, IK10, Anti-corrosion (optional)	IP67, IK10, Anti-corrosion (optional)	IP67, IK10, Anti-corrosion (optional)
Working Temperature	-40°C ~ +65°C (-40°F ~ +149°F)	-40°C ~ +65°C (-40°F ~ +149°F)	-40°C ~ +65°C (-40°F ~ +149°F)	-40°C ~ +65°C (-40°F ~ +149°F)	-40°C ~ +65°C (-40°F ~ +149°F)
Power	12V DC/24V AC/POE+(802.3at)/ePoE, Max. 25.2W	12V DC/24V AC/POE+(802.3at)/ePoE, Max. 25.2W	12V DC/24V AC/POE+(802.3at)/ePoE, Max. 25.2W	12V DC/24V AC/POE+(802.3at)/ePoE, Max. 25.2W	12V DC/24V AC/POE+(802.3at)/ePoE, Max. 25.2W
<b>Artificial Intelligence</b>					
Face Detection	Supported	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported	Supported
Video Metadata	Supported	Supported	Supported	Supported	Supported
Privacy Protection	--	Supported	Supported	Supported	Supported
ANPR	Supported	Supported	Supported	Supported	Supported
Parking Space Management	Supported	Supported	Supported	Supported	Supported
PPE Detection	Supported	Supported	Supported	Supported	Supported
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection				
People Counting	Supported	Supported	Supported	Supported	Supported
<b>General Intelligence</b>					
IVS	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing	Object Abandoned/Missing

# Wiz Mind S

## SMARTER VISION, STRONGER SHIELD



AI-Powered  
Image



Deeplight



Video  
Metadata



Perimeter  
Protection



# NETWORK CAMERAS





## WizMind S Series

### Junction Box Housing

Model	IPC-HFW5842H-ZHE	IPC-HFW5842H-Z4HE	IPC-HFW5442H-ZHE	IPC-HFW5442H-Z4HE
Appearance	 <b>4K DeepLight</b>	 <b>4K DeepLight</b>	 <b>DeepLight</b>	 <b>DeepLight</b>
Image Sensor	1/1.8"8MP CMOS	1/1.8"8MP CMOS	1/1.8"4MP CMOS	1/1.8"4MP CMOS
Focal Length	2.7~12mm motorized lens	8~32mm motorized lens	2.7~12mm motorized lens	8~32mm motorized lens
FOV-H	112°~48°	42°~15°	114°~48°	43°~15°
Min. Illumination	0.0007 lux@F1.2 (Color, 30 IRE) 0.0003 lux@F1.2 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0008 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0006 Lux@F1.2 (Color, 30 IRE) 0.0003 Lux@F1.2 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0007 Lux@F1.6 (Color, 30 IRE) 0.0004 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
Day/Night	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W
WDR	120dB	120dB	140dB	140dB
Illumination Distance	60m (196.85ft) (IR)	120m (393.7ft) (IR)	60m (196.85ft) (IR)	120m (393.7ft) (IR)
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	8MP (3840x2160)	8MP (3840x2160)	4MP (2688x1520)	4MP (2688x1520)
Frame Rate	25/30fps@8MP	25/30fps@8MP	25/30fps@4MP	25/30fps@4MP
Multi-streaming	4 streams	4 streams	4 streams	4 streams
Angle Adjustment	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; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	1/1; Dual Mic	1/1; Dual Mic	1/1; Dual Mic	1/1; Dual Mic
Memory Slot	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB
Alarm In/Out	3 channels in: wet contact, 5mA 3V~5V DC 2 channels out: dry contact, 1,000 mA 30V DC/500mA 50V AC	3 channels in: wet contact, 5mA 3V~5V DC 2 channels out: dry contact, 1,000 mA 30V DC/500mA 50V AC	3 channels in: wet contact, 5mA 3V~5V DC 2 channels out: dry contact, 1,000 mA 30V DC/500mA 50V AC	3 channels in: wet contact, 5mA 3V~5V DC 2 channels out: dry contact, 1,000 mA 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)/ePoE, Max. 16.9W	12V DC/24V AC/PoE (802.3at)/ePoE, Max. 16.7W	12V DC/24V AC/PoE (802.3at)/ePoE, Max. 16.1W	12V DC/24V AC/PoE (802.3at)/ePoE, Max. 16.4W
<b>Artificial Intelligence</b>				
Video Metadata	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection			
People Counting	Supported	Supported	Supported	Supported
Smart Object Detection	Supported	Supported	Supported	Supported
Smart Sound Detection	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported

## WizMind S Series

### Junction Box Housing




Model	IPC-HDBW5842H-ZHE	IPC-HDBW5842H-Z4HE	IPC-HDBW5442H-ZHE	IPC-HDBW5442H-Z4HE
Appearance	 <b>4K DeepLight</b>	 <b>4K DeepLight</b>	 <b>DeepLight</b>	 <b>DeepLight</b>
Image Sensor	1/1.8" 8MP CMOS	1/1.8" 8MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS
Focal Length	2.7~12mm motorized lens	8~32mm motorized lens	2.7~12mm motorized lens	8~32mm motorized lens
FOV-H	114°~48°	42°~15°	115°~47°	43°~15°
Min. Illumination	0.0007 lux@F1.2 (Color, 30 IRE) 0.0003 lux@F1.2 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0008 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0007 lux@F1.8 (Color, 30 IRE) 0.0004 lux@F1.8 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0007 Lux@F1.6 (Color, 30 IRE) 0.0004 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
Day/Night	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W
WDR	120dB	120dB	140dB	140dB
Illumination Distance	40m (131.23ft) (IR)	80m (262.47ft) (IR)	40m (131.23ft) (IR)	80m (262.47ft) (IR)
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	8MP (3840x2160)	8MP (3840x2160)	4MP (2688x1520)	4MP (2688x1520)
Frame Rate	25/30fps@8MP	25/30fps@8MP	25/30fps@4MP	25/30fps@4MP
Multi-streaming	4 streams	4 streams	4 streams	4 streams
Angle Adjustment	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; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	1/1; Dual Mic	1/1; Dual Mic	1/1; Dual Mic	1/1; Dual Mic
Memory Slot	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB
Alarm In/Out	3 channels in: wet contact, 5mA 3V~5V DC 2 channels out: dry contact, 1,000 mA 30V DC/500mA 50V AC	3 channels in: wet contact, 5mA 3V~5V DC 2 channels out: dry contact, 1,000 mA 30V DC/500mA 50V AC	3 channels in: wet contact, 5mA 3V~5V DC 2 channels out: dry contact, 1,000 mA 30V DC/500mA 50V AC	3 channels in: wet contact, 5mA 3V~5V DC 2 channels out: dry contact, 1,000 mA 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)/ePoE, Max. 16.4W	12V DC/24V AC/PoE (802.3at)/ePoE, Max. 15.8W	12V DC/24V AC/PoE (802.3at)/ePoE, Max. 15.9W	12V DC/24V AC/PoE (802.3at)/ePoE, Max. 15.2W
<b>Artificial Intelligence</b>				
Video Metadata	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection			
People Counting	Supported	Supported	Supported	Supported
Smart Object Detection	Supported	Supported	Supported	Supported
Smart Sound Detection	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported



# NETWORK CAMERAS

## WizMind S Series

### Box Camera

Model	IPC-HF5842F-ZE	IPC-HF5541F-ZE	IPC-HF5442F-ZE	IPC-HF5241F-ZE
Appearance	 <b>4K DeepLight</b>	 <b>DeepLight</b>	 <b>DeepLight</b>	 <b>DeepLight</b>
Image Sensor	1/1.8" 8MP CMOS	1/2.7" 5MP CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP CMOS
Focal Length	C/CS	C/CS	C/CS	C/CS
FOV-H	--	--	--	--
Min. Illumination	With 10mm–40mm lens: 0.0007 lux@F1.2 (Color, 30 IRE) 0.0003 lux@F1.2 (B/W, 30 IRE)	With 10mm–40mm lens: 0.0008lux@F1.2 (Color, 30 IRE) 0.0004lux@F1.2 (B/W, 30 IRE)	With 10mm–40mm lens: 0.0006 lux@F1.2 (Color, 30 IRE) 0.0003 lux@F1.2 (B/W, 30 IRE)	With 10mm–40mm lens: 0.0006lux@F1.2 (Color, 30 IRE) 0.0003lux@F1.2 (B/W, 30 IRE)
Day/Night	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W
WDR	120dB	120dB	140dB	120dB
Illumination 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	8MP (3840x2160)	5MP (2960x1668)	4MP (2688x1520)	1080P (1920x1080)
Frame Rate	25/30fps@8MP	25/30fps@5MP	25/30fps@4MP	25/30fps@1080P
Multi-streaming	4 streams	4 streams	4 streams	4 streams
Angle Adjustment	NA	NA	NA	NA
Compatibility	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
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. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB
Alarm In/Out	2 channels in: wet contact, 5mA 3V–5V DC 2 channels out: dry contact, 1,000mA 30V DC/500mA 50V AC	2 channels in: wet contact, 5mA 3V–5V DC 2 channels out: dry contact, 1,000mA 30V DC/500mA 50V AC	2 channels in: wet contact, 5mA 3V–5V DC 2 channels out: dry contact, 1,000mA 30V DC/500mA 50V AC	2 channels in: wet contact, 5mA 3V–5V DC 2 channels out: dry contact, 1,000mA 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)/ePoE, Max. 12.0W	12V DC/24V AC/PoE (802.3af)/ePoE, Max. 11.2W	12V DC/24V AC/PoE (802.3af)/ePoE, Max. 11.0W	12V DC/24V AC/PoE (802.3af)/ePoE, Max. 11.1W
<b>Artificial Intelligence</b>				
Video Metadata	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection			
People Counting	Supported	Supported	Supported	Supported
Smart Object Detection	Supported	Supported	Supported	Supported
Smart Sound Detection	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported

## WizMind S Series




### Vari-focal Bullet

Model	IPC-HFW5842E-ZE/ZHE	IPC-HFW5842E-Z4E	IPC-HFW5541E-ZE/ZHE	IPC-HFW5541E-Z5E	IPC-HFW5442E-ZE/ZHE
Appearance	 <b>4K DeepLight</b>	 <b>4K DeepLight</b>	 <b>DeepLight</b>	 <b>DeepLight</b>	 <b>DeepLight</b>
Image Sensor	1/1.8" 8MP CMOS	1/1.8" 8MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/1.8" 4MP CMOS
Focal Length	2.7~12mm motorized lens	8~32mm motorized lens	2.7~13.5mm motorized lens	7~35mm motorized lens	2.7~12mm motorized lens
FOV-H	113°~47°	42°~15°	114°~32°	31°~11°	115°~47°
Min. Illumination	0.0008 lux@F1.8 (Color, 30 IRE) 0.0004 lux@F1.8 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0008 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0009 Lux@F1.5 (Color, 30 IRE) 0.0005 Lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0009 Lux@F1.6 (Color, 30 IRE) 0.0005 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0007 lux@F1.8 (Color, 30 IRE) 0.0004 lux@F1.8 (B/W, 30 IRE) 0 lux (Illuminator on)
Day/Night	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W
WDR	120dB	120dB	120dB	120dB	140dB
Illumination Distance	60m (196.85ft) (IR)	120m (393.7ft) (IR)	60m (196.85ft) (IR)	120m (393.7ft) (IR)	60m (196.85ft) (IR)
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	8MP (3840x2160)	8MP (3840x2160)	5MP (2960x1668)	5MP (2960x1668)	4MP (2688x1520)
Frame Rate	25/30fps@8MP	25/30fps@8MP	25/30fps@5MP	25/30fps@5MP	25/30fps@4MP
Multi-streaming	4 streams	4 streams	4 streams	4 streams	4 streams
Angle Adjustment	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; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	1/1; Built-in Mic	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. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB
Alarm In/Out	2 channels in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	2 channels in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	2 channels in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	2 channels in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	2 channels in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC
Ingress Protection	IP67, IK10	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)(-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)
Power	12V DC/PoE (802.3af)/ePoE, Max. 12.8W (-ZE) 12V DC/PoE (802.3af)/ePoE, Max. 12.8W (-ZHE)	12V DC/PoE (802.3af)/ePoE, Max. 12.8W	12V DC/PoE (802.3af)/ePoE, Max. 13.0W (-ZE) 12V DC/PoE (802.3af)/ePoE, Max. 13.0W (-ZHE)	12V DC/PoE (802.3af)/ePoE, Max. 13.0W	12V DC/PoE (802.3af)/ePoE, Max. 12.3W (-ZE) 12V DC/PoE (802.3af)/ePoE, Max. 12.3W (-ZHE)
<b>Artificial Intelligence</b>					
Video Metadata	Supported	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported	Supported
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection				
People Counting	Supported	Supported	Supported	Supported	Supported
Smart Object Detection	Supported	Supported	Supported	Supported	Supported
Smart Sound Detection	Supported	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported	Supported

# NETWORK CAMERAS

## WizMind S Series

### Vari-focal Bullet

Model	IPC-HFW5442E-Z4E	IPC-HFW5241E-ZE	IPC-HFW5241E-Z5E	IPC-HFW5241E-Z12E
Appearance	 <b>DeepLight</b>	 <b>DeepLight</b>	 <b>DeepLight</b>	 <b>DeepLight</b>
Image Sensor	1/1.8" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Focal Length	8~32mm motorized lens	2.7~13.5mm motorized lens	7~35mm motorized lens	5~60mm motorized lens
FOV-H	43°~15°	109°~30°	31°~11°	59°~5°
Min. Illumination	0.0007 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0007 Lux@F1.5(Color,30IRE) 0.0004 Lux@F1.5(B/W,30IRE) 0 lux (Illuminator on)	0.0007 Lux@F1.6(Color,30IRE) 0.0004 Lux@F1.6(B/W,30IRE) 0 lux (Illuminator on)	0.0007 Lux@F1.5(Color,30IRE) 0.0004 Lux@F1.5(B/W,30IRE) 0 lux (Illuminator on)
Day/Night	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W
WDR	140dB	120dB	120dB	120dB
Illumination Distance	120m (393.7ft) (IR)	60m (196.85ft) (IR)	120m (393.7ft) (IR)	150m (492.13ft) (IR)
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 (2688×1520)	1080P (1920×1080)	1080P (1920×1080)	1080P (1920×1080)
Frame Rate	25/30fps@4MP	25/30fps@1080P	25/30fps@1080P	25/30fps@1080P
Multi-streaming	4 streams	4 streams	4 streams	4 streams
Angle Adjustment	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; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
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. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB
Alarm In/Out	2 channels in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	2 channels in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	2 channels in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	2 channels in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-30°C~+60°C (-22 °F~+140 °F)	-30°C~+60°C (-22 °F~+140 °F)	-30°C~+60°C (-22 °F~+140 °F)	-30°C~+60°C (-22 °F~+140 °F)
Power	12V DC/PoE (802.3af)/ePoE, Max. 12.3W	12V DC, PoE (802.3af), Max. 11.6W	12V DC/PoE (802.3af)/ePoE, Max. 11.6W	12V DC/PoE (802.3af)/ePoE, Max. 12.1W
<b>Artificial Intelligence</b>				
Video Metadata	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection			
People Counting	Supported	Supported	Supported	Supported
Smart Object Detection	Supported	Supported	Supported	Supported
Smart Sound Detection	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported

## WizMind S Series

### Vari-focal Dome

Model	IPC-HDBW5842E-ZE/ZHE	IPC-HDBW5842E-Z4E	IPC-HDBW5541E-ZE/ZHE	IPC-HDBW5541E-Z5E
Appearance	  	  	  	  
Image Sensor	1/1.8" 8MP CMOS	1/1.8" 8MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS
Focal Length	2.7~12mm motorized lens	8~32mm motorized lens	2.7~13.5mm motorized lens	7~35mm motorized lens
FOV-H	113°~47°	42°~15°	114°~32°	31°~11°
Min. Illumination	0.0008 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0008 lux@F1.8 (Color, 30 IRE) 0.0004 lux@F1.8 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0009 Lux@F1.5 (Color, 30 IRE) 0.0005 Lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0009 Lux@F1.6 (Color, 30 IRE) 0.0005 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
Day/Night	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W
WDR	120dB	120dB	120dB	120dB
Illumination Distance	40m (131.23ft) (IR)	80m (262.47ft) (IR)	40m (131.23ft) (IR)	80m (262.47ft) (IR)
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	8MP (3840x2160)	8MP (3840x2160)	5MP (2960x1668)	5MP (2960x1668)
Frame Rate	25/30fps@8MP	25/30fps@8MP	25/30fps@5MP	25/30fps@5MP
Multi-streaming	4 streams	4 streams	4 streams	4 streams
Angle Adjustment	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; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
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. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB
Alarm In/Out	2 channels in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	2 channels in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	2 channels in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	2 channels in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC
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)(-ZE) -40°C~+60°C (-40 °F~+140 °F)(-ZHE)	-30°C~+60°C (-22 °F~+140 °F)
Power	12V DC/24V AC/PoE (802.3af)/ePoE, Max. 12.2W (-ZE) 12V DC/24V AC/PoE (802.3af)/ePoE, Max. 12.2W (-ZHE)	12V DC/24V AC/PoE (802.3af)/ePoE, Max. 11.7W	12V DC/24V AC/PoE (802.3af)/ePoE, Max. 12.1W (-ZE) 12V DC/24V AC/PoE (802.3af)/ePoE, Max. 12.1W (-ZHE)	12V DC/24V AC/PoE (802.3af)/ePoE, Max. 11.6W
<b>Artificial Intelligence</b>				
Video Metadata	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection			
People Counting	Supported	Supported	Supported	Supported
Smart Object Detection	Supported	Supported	Supported	Supported
Smart Sound Detection	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported



# NETWORK CAMERAS


## WizMind S Series

### Vari-focal Dome

Model	IPC-HDBW5442E-ZE/ZHE	IPC-HDBW5442E-Z4E	IPC-HDBW5241E-ZE	IPC-HDBW5241E-Z5E
Appearance	  	  	  	  
Image Sensor	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Focal Length	2.7~12mm motorized lens	8~32mm motorized lens	2.7~13.5mm motorized lens	7~35mm motorized lens
FOV-H	115°~47°	43°~15°	109°~30°	31°~11°
Min. Illumination	0.0007 lux@F1.8 (Color, 30 IRE) 0.0004 lux@F1.8 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0007 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0007Lux@F1.5 (Color, 30 IRE) 0.0004 Lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0007 Lux@F1.6 (Color, 30 IRE) 0.0004 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
Day/Night	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W
WDR	140dB	140dB	120dB	120dB
Illumination Distance	40m (131.23ft) (IR)	80m (262.47ft) (IR)	40m (131.23ft) (IR)	80m (262.47ft) (IR)
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 (2688×1520)	4MP (2688×1520)	1080P (1920×1080)	1080P (1920×1080)
Frame Rate	25/30fps@4MP	25/30 fps@4MP	25/30fps@1080P	25/30fps@1080P
Multi-streaming	4 streams	4 streams	4 streams	4 streams
Angle Adjustment	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; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
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. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB
Alarm In/Out	2 channels in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	2 channels in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	2 channels in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	2 channels in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC
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	12V DC/24V AC/PoE (802.3af)/ePoE, Max. 11.7W (-ZE) 12V DC/24V AC/PoE (802.3af)/ePoE, Max. 11.7W (-ZHE)	12V DC/24V AC/PoE (802.3af)/ePoE, Max. 11.2W	12V DC/24V AC/PoE (802.3af)/ePoE, Max. 11.5W	12V DC/24V AC/PoE (802.3af)/ePoE, Max. 10.8W
<b>Artificial Intelligence</b>				
Video Metadata	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection			
People Counting	Supported	Supported	Supported	Supported
Smart Object Detection	Supported	Supported	Supported	Supported
Smart Sound Detection	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported

## WizMind S Series

### Vari-focal Eyeball

Model	IPC-HDW5842T-ZE	IPC-HDW5541T-ZE	IPC-HDW5442T-ZE	IPC-HDW5241T-ZE
Appearance	 <b>4K DeepLight</b>	 <b>DeepLight</b>	 <b>DeepLight</b>	 <b>DeepLight</b>
Image Sensor	1/1.8" 8MP CMOS	1/2.7" 5MP CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP CMOS
Focal Length	2.7~12 mm motorized lens	2.7~13.5 mm motorized lens	2.7~12 mm motorized lens	2.7~13.5 mm motorized lens
FOV-H	113°~47°	114°~32°	115°~47°	109°~30°
Min. Illumination	0.0008 lux@F1.8 (Color, 30 IRE) 0.0004 lux@F1.8 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0009 Lux@F1.5 (Color, 30 IRE) 0.0005 Lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0007 lux@F1.8 (Color, 30 IRE) 0.0004 lux@F1.8 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0007 Lux@F1.5 (Color, 30 IRE) 0.0004 Lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)
Day/Night	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W
WDR	120dB	120dB	140dB	120dB
Illumination Distance	40m (131.23ft) (IR)	40m (131.23ft) (IR)	40m (131.23ft) (IR)	40m (131.23ft) (IR)
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	8M (3840x2160)	5MP (2960x1668)	4MP (2688x1520)	1080P (1920x1080)
Frame Rate	25/30 fps@8MP	25/30fps@5MP	25/30fps@4MP	25/30 fps@1080P
Multi-streaming	4 streams	4 streams	4 streams	4 streams
Angle Adjustment	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; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic
Memory Slot	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB
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	12V DC/PoE (802.3af)/ePoE, Max. 9.0W	12V DC/PoE (802.3af)/ePoE, Max. 8.5W	12V DC/PoE (802.3af)/ePoE, Max. 8.2W	12V DC/PoE (802.3af)/ePoE, Max. 7.6W
<b>Artificial Intelligence</b>				
Video Metadata	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection			
People Counting	Supported	Supported	Supported	Supported
Smart Object Detection	Supported	Supported	Supported	Supported
Smart Sound Detection	--	--	--	--
Heat Map	Supported	Supported	Supported	Supported

# NETWORK CAMERAS





## WizMind S Series

### Fixed Mini Bullet

Model	IPC-HFW5842E-ASE	IPC-HFW5541E-ASE	IPC-HFW5442E-ASE	IPC-HFW5241E-ASE
Appearance	 4K DeepLight	 DeepLight	 DeepLight	 DeepLight
Image Sensor	1/1.8" 8MP CMOS	1/2.7" 5MP CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP CMOS
Focal Length	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	110°/87°/60°	111°/92°/57°	112°/88°/61°	106°/88°/54°
Min. Illumination	0.0008 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0009 Lux@F1.6 (Color, 30 IRE) 0.0005 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0007Lux@F1.6 (Color, 30 IRE) 0.0004 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0007 Lux@F1.6 (Color, 30 IRE) 0.0004 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
Day/Night	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W
WDR	120dB	120dB	140dB	120dB
Illumination Distance	50m (164.04ft) (IR)	50m (164.04ft) (IR)	50m (164.04ft) (IR)	50m (164.04ft) (IR)
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	8MP (3840×2160)	5MP (2960×1668)	4MP (2688×1520)	1080P (1920×1080)
Frame Rate	25/30fps@8MP	25/30fps@5MP	25/30fps@4MP	25/30fps@1080P
Multi-streaming	4 streams	4 streams	4 streams	4 streams
Angle Adjustment	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; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
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. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB
Alarm In/Out	1 channel in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	1 channel in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	1 channel in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	1 channel in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC
Ingress Protection	IP67	IP67	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)/ePoE, Max. 8.3W	12V DC/PoE (802.3af)/ePoE, Max. 8.3W	12V DC/PoE (802.3af)/ePoE, Max. 8.3W	12V DC/PoE (802.3af)/ePoE, Max. 8.3W
<b>Artificial Intelligence</b>				
Video Metadata	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection			
People Counting	Supported	Supported	Supported	Supported
Smart Object Detection	Supported	Supported	Supported	Supported
Smart Sound Detection	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported

## WizMind S Series

### Fixed Bullet




Model	IPC-HFW5842T-ASE	IPC-HFW5842T-SE	IPC-HFW5541T-ASE	IPC-HFW5541T-SE
Appearance	 4K DeepLight	 4K DeepLight	 DeepLight	 DeepLight
Image Sensor	1/1.8" 8MP CMOS	1/1.8" 8MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS
Focal Length	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm, 6mm, 8mm optional)	2.8mm fixed lens (3.6mm, 6mm, 8mm optional)
FOV-H	110°/87°/60°	110°/87°/60°	111°/92°/57°/43°	111°/92°/57°/43°
Min. Illumination	0.0008 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0008 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0009 Lux@F1.6(Color,30IRE) 0.0005 Lux@F1.6(B/W,30IRE) 0 lux (Illuminator on)	0.0009 Lux@F1.6(Color,30IRE) 0.0005 Lux@F1.6(B/W,30IRE) 0 lux (Illuminator on)
Day/Night	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W
WDR	120dB	120dB	120dB	120dB
Illumination Distance	80m (265.5ft) (IR)	80m (265.5ft) (IR)	80m (265.5ft) (IR)	80m (265.5ft) (IR)
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	8MP (3840x2160)	8MP (3840x2160)	5MP (2960x1668)	5MP (2960x1668)
Frame Rate	25/30fps@8MP	25/30fps@8MP	25/30fps@5MP	25/30fps@5MP
Multi-streaming	4 streams	4 streams	4 streams	4 streams
Angle Adjustment	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; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	1/1; Built-in Mic	Built-in Mic	1/1; Built-in Mic	Built-in Mic
Memory Slot	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB
Alarm In/Out	1 channel in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	--	1 channel in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	--
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/PoE (802.3af)/ePoE, Max. 9.8W	12V DC/PoE (802.3af)/ePoE, Max. 9.8W	12V DC/PoE (802.3af)/ePoE, Max. 9.8W	12V DC/PoE (802.3af)/ePoE, Max. 9.8W
<b>Artificial Intelligence</b>				
Video Metadata	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection			
People Counting	Supported	Supported	Supported	Supported
Smart Object Detection	Supported	Supported	Supported	Supported
Smart Sound Detection	Supported	--	Supported	--
Heat Map	Supported	Supported	Supported	Supported



# NETWORK CAMERAS

## WizMind S Series

### Fixed Bullet

Model	IPC-HFW5442T-ASE	IPC-HFW5442T-SE	IPC-HFW5241T-ASE	IPC-HFW5241T-SE
Appearance	 <b>DeepLight</b>	 <b>DeepLight</b>	 <b>DeepLight</b>	 <b>DeepLight</b>
Image Sensor	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Focal Length	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm/6mm optional)	2.8mm fixed lens (3.6mm, 6mm, 8mm optional)	2.8mm fixed lens (3.6mm, 6mm, 8mm optional)
FOV-H	112°/88°/61°	112°/88°/61°	106°/88°/54°/42°	106°/88°/54°/42°
Min. Illumination	0.0007Lux@F1.6 (Color, 30 IRE) 0.0004 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0007Lux@F1.6 (Color, 30 IRE) 0.0004 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0007Lux@F1.6 (Color, 30 IRE) 0.0004 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0007Lux@F1.6 (Color, 30 IRE) 0.0004 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
Day/Night	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W
WDR	140dB	140dB	120dB	120dB
Illumination Distance	80m (265.5ft) (IR)	80m (265.5ft) (IR)	80m (265.5ft) (IR)	80m (265.5ft) (IR)
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)	1080P (1920x1080)	1080P (1920x1080)
Frame Rate	25/30fps@4MP	25/30fps@4MP	25/30fps@1080P	25/30fps@1080P
Multi-streaming	4 streams	4 streams	4 streams	4 streams
Angle Adjustment	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; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	1/1; Built-in Mic	Built-in Mic	1/1; Built-in Mic	Built-in Mic
Memory Slot	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB
Alarm In/Out	1 channel in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	--	1 channel in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	--
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/PoE (802.3af)/ePoE, Max. 9.8W	12V DC/PoE (802.3af)/ePoE, Max. 9.8W	12V DC/PoE (802.3af)/ePoE, Max. 9.8W	12V DC/PoE (802.3af)/ePoE, Max. 9.8W
<b>Artificial Intelligence</b>				
Video Metadata	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection			
People Counting	Supported	Supported	Supported	Supported
Smart Object Detection	Supported	Supported	Supported	Supported
Smart Sound Detection	Supported	--	Supported	--
Heat Map	Supported	Supported	Supported	Supported

## WizMind S Series


### Fixed Dome

Model	IPC-HDBW5842R-ASE	IPC-HDBW5541R-ASE	IPC-HDBW5442R-ASE	IPC-HDBW5241R-ASE
Appearance	 4K DeepLight	 DeepLight	 DeepLight	 DeepLight
Image Sensor	1/1.8" 8MP CMOS	1/2.7" 5MP CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP CMOS
Focal Length	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	110°/87°/60°	111°/92°/57°	112°/88°/61°	106°/88°/54°
Min. Illumination	0.0008 lux@F1.6 (Color, 30 IRE) 0.0004 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0009 Lux@F1.6 (Color, 30 IRE) 0.0005 Lux@F1.6(B/W, 30 IRE) 0 lux (Illuminator on)	0.0007Lux@F1.6 (Color, 30 IRE) 0.0004 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0007Lux@F1.6 (Color, 30 IRE) 0.0004 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
Day/Night	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W
WDR	120dB	120dB	140dB	120dB
Illumination Distance	50m (164.04ft) (IR)	50m (164.04ft) (IR)	50m (164.04ft) (IR)	50m (164.04ft) (IR)
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	8MP (3840x2160)	5MP (2960x1668)	4MP (2688x1520)	1080P (1920x1080)
Frame Rate	25/30fps@8MP	25/30fps@5MP	25/30fps@4MP	25/30fps@1080P
Multi-streaming	4 streams	4 streams	4 streams	4 streams
Angle Adjustment	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; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
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. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB
Alarm In/Out	1 channel in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	1 channel in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	1 channel in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	1 channel in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC
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/PoE (802.3af)/ePoE, Max. 8.8W	12V DC/PoE (802.3af)/ePoE, Max. 8.8W	12V DC/PoE (802.3af)/ePoE, Max. 8.8W	12V DC/PoE (802.3af)/ePoE, Max. 8.8W
<b>Artificial Intelligence</b>				
Video Metadata	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection			
People Counting	Supported	Supported	Supported	Supported
Smart Object Detection	Supported	Supported	Supported	Supported
Smart Sound Detection	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported

# NETWORK CAMERAS

## WizMind S Series

### Fixed Eyeball

Model	IPC-HDW5842TM-ASE	IPC-HDW5541TM-ASE	IPC-HDW5442TM-ASE	IPC-HDW5241TM-ASE
Appearance	 <b>4K DeepLight</b>	 <b>DeepLight</b>	 <b>DeepLight</b>	 <b>DeepLight</b>
Image Sensor	1/1.8" 8MP CMOS	1/2.7" 5MP CMOS	1/1.8" 4MP CMOS	1/2.8" 2MP CMOS
Focal Length	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	111°/87°/55°	111°/92°/57°	112°/88°/61°	106°/88°/54°
Min. Illumination	0.0008 Lux@F1.6 (Color, 30 IRE) 0.0004 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0009 Lux@F1.6 (Color, 30 IRE) 0.0005 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0007 Lux@F1.6 (Color, 30 IRE) 0.0004 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0007 Lux@F1.6 (Color, 30 IRE) 0.0004 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
Day/Night	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W
WDR	120dB	120dB	140dB	120dB
Illumination Distance	50m (164.04ft) (IR)	50m (164.04ft) (IR)	50m (164.04ft) (IR)	50m (164.04ft) (IR)
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	8MP (3840x2160)	5MP (2960x1668)	4MP (2688x1520)	1080P (1920x1080)
Frame Rate	25/30fps@8MP	25/30fps@5MP	25/30fps@4MP	25/30fps@1080P
Multi-streaming	4 streams	4 streams	4 streams	4 streams
Angle Adjustment	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; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
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. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB
Alarm In/Out	1 channel in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	1 channel in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	1 channel in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC	1 channel in: wet contact, 5mA 3V~5V DC 1 channel out: wet contact, 300mA 12V DC
Ingress Protection	IP67	IP67	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)/ePoE, Max. 8.8W	12V DC/PoE (802.3af)/ePoE, Max. 8.3W	12V DC/PoE (802.3af)/ePoE, Max. 9.7W	12V DC/PoE (802.3af)/ePoE, Max. 9.7W
<b>Artificial Intelligence</b>				
Video Metadata	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection			
People Counting	Supported	Supported	Supported	Supported
Smart Object Detection	Supported	Supported	Supported	Supported
Smart Sound Detection	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported

Explore New Innovations with



# Full-Color Camera



# NETWORK CAMERAS

## WizMind Full-color Series


### Full-color

Model	IPC-PFW5849-A180-E2-ASTE	IPC-HFW5449T1-ASE-D2	IPC-HFW5849T1-ASE-LED	IPC-HDW5449H-ASE-D2	IPC-PDW5849-A180-E2-ASTE
Appearance					
Image Sensor	Dual 1/1.8" 8MP CMOS	1/1.8" + 1/1.8" 4MP CMOS	1/1.2" 8MP CMOS	1/1.8" + 1/1.8" 4MP CMOS	Dual 1/1.8" 8MP CMOS
Focal Length	3.6mm/F1.0	2.8mm/F1.0 3.6mm/F1.0 6mm/F1.0	2.8mm/F1.0 3.6mm/F1.0 6mm/F1.0	2.8mm/F1.0 3.6mm/F1.0 6mm/F1.0	3.6mm/F1.0
FOV-H	180°	97°/75°/47°	112°/91°/55°	97°/75°/47°	180°
Min. Illumination	0.0005 lux@F1.0 (Color, 30 IRE) 0.0002 lux@F1.0 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0002 lux @F1.0	0.0005Lux@F1.0	0.0002 lux @F1.0	0.0005 lux@F1.0 (Color, 30 IRE) 0.0002 lux@F1.0 (B/W, 30 IRE) 0 lux (Illuminator on)
Day/Night	Color/B/W	Color/B/W	Color/B/W	Color/B/W	Color/B/W
WDR	140dB	140dB	140dB	140dB	140dB
Illumination Distance	40m (131.23ft) (Warm light)	50m (164.04ft) (IR)	60m (196.85ft) (Warm light)	50m (164.04ft) (IR)	40m (131.23ft) (Warm light)
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)	H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)	H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)	H.265; H.264; 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	8MP (4096x1800)	4MP (2688x1520)	8MP (3840x2160)	4MP (2688x1520)	8MP (4096x1800)
Frame Rate	25fps@8Mp	25/30fps@4Mp	30fps@8Mp	25/30fps@4Mp	25fps@8Mp
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Angle Adjustment	Pan: 0°~360°; Tilt: 0°~90°; Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90°; Rotation: 0°~360°	Pan: 0°~360°; Tilt: -20°~90°; Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78°; Rotation: 0°~360°	Pan: 0°~360°; Tilt: 4°~90°; Rotation: 0°~360°
Compatibility	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	1/1	1/1; Built-in Mic	1/1; Built-in Mic and speaker	1/1; Built-in Mic and speaker	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	1/1	1/1	1/1	1/1	1/1
Ingress Protection	IP67	IP67	IP67	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)	-40°C~-60°C (-40°F~+140°F)
Power	12V DC/PoE (802.3af), Max. 11.8W	12V DC/PoE (802.3af), Max. 9.9W	12V DC (±30%)/PoE (802.3af), Max. 11.1W	12V DC/PoE (802.3af), Max. 9.3W	12V DC/PoE (802.3af), Max. 11.8W
<b>Artificial Intelligence</b>					
Face Detection	--	Supported	Supported	Supported	--
Perimeter Protection	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported
Smart Object Detection	Supported	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported	Supported



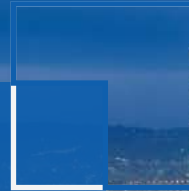
## WizMind Full-color Series

### Full-color

Model	IPC-HDW5849H-ASE-LED	IPC-HDW5449TM-SE-LED	IPC-HDBW5449R-ASE-LED	IPC-HFW5449T-ASE-LED	IPC-HDBW5449R1-ZE-LED	IPC-HFW5449T1-ZE-LED
Appearance						
Image Sensor	1/1.2" 8MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS
Focal Length	2.8mm/F1.0 3.6mm/F1.0	2.8mm/F1.0 3.6mm/F1.0	2.8mm/F1.0 3.6mm/F1.0	2.8mm/F1.0 3.6mm/F1.0 6mm/F1.0	2.7mm~12mm/F1.0	2.7mm~12mm/F1.0
FOV-H	102°/88°	107°/95°	107°/95°	107°/95°/58°	107°~48°	115°~48°
Min. Illumination	0.0005Lux@F1.0	0.0005Lux@F1.0	0.0005Lux@F1.0	0.0005Lux@F1.0	0.0005Lux@F1.0	0.0005Lux@F1.0
Day/Night	Color/B/W	Color/B/W	Color/B/W	Color/B/W	Color/B/W	Color/B/W
WDR	140dB	140dB	140dB	140dB	140dB	140dB
Illumination Distance	60m (196.85ft) (Warm light)	30m (98.4ft) (Warm light)	30m (98.4ft) (Warm light)	60m (196.85ft) (Warm light)	40m (131.2ft) (Warm light)	70m (229.66ft) (Warm light)
Video Compression	H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)	H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)	H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)	H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)	H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)	H.265; H.264; 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+	Smart H.265+/H.264+
Max. Resolution	8MP (3840x2160)	4MP (2688x1520)	4MP (2688x1520)	4MP (2688x1520)	4MP (2688x1520)	4MP (2688x1520)
Frame Rate	30fps@8Mp	30fps@4Mp	30fps@4Mp	30fps@4Mp	30fps@4Mp	30fps@4Mp
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Angle Adjustment	Pan: 0°~360°; Tilt: 0°~78°; Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78°; Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~78°; Rotation: 0°~355°	Pan: 0°~360°; Tilt: 0°~90°; Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~80°; Rotation: 0°~355°	Pan: 0°~360°; Tilt: -20°~90°; Rotation: 0°~360°
Compatibility	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	1/1; Built-in Mic	1/1; Built-in Mic	1/1; Built-in Mic	1/1; Built-in Mic	1/1; Built-in Mic and Speaker	1/1; Built-in Mic and Speaker
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	1/1	1/1	1/1	1/1	1/1	1/1
Ingress Protection	IP67	IP67	IP67, IK10 protection	IP67	IP67, IK10 protection	IP67, IK10 protection
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	12V DC (±30%)/PoE (802.3af), Max. 7.9W	12V DC (±30%)/PoE (802.3af), Max. 6.5W	12V DC (±30%)/PoE (802.3af), Max. 7W	12V DC (±30%)/PoE (802.3af), Max. 7.3W	12V DC (±30%)/PoE (802.3af), Max. 7.4W	12V DC (±30%)/PoE (802.3af), Max. 7.6W
<b>Artificial Intelligence</b>						
Face Detection	Supported	Supported	Supported	Supported	Supported	Supported
Perimeter Protection	Supported	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported	Supported
Smart Object Detection	Supported	Supported	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported	Supported	Supported

# Panoramic Series Network Camera

The panoramic series is designed for applications that require a 360°, 270°, 180° view for situational awareness. With its all-in-one design, up to 8K Ultra High Definition resolution, wider coverage, excellent night view, better image correction, and rich AI functions, this series is a perfect surveillance solution that can replace multiple conventional cameras, reduce complexity, and save installation and maintenance costs.



## 8K Ultra High Definition

Delivers vast area coverage and crystal clear images, and enables users to see more hard-to-discover details in large scale scenarios through its 8K Ultra High Definition resolution.



## Wider Coverage

Equipped with multiple lens, the Dahua panoramic camera can implement seamless splicing between lenses and achieve 180°, 270° and 360° field of view.



## EPTZ

EPTZ can simultaneously zoom in and track multiple human and vehicle targets when an alarm is triggered, realizing PTZ linkage. In addition to a panoramic view, EPTZ also provides rich details to help users see distant objects clearly.












## AI Functions

Offers rich AI functions including Perimeter Protection, Face Detection, Face Recognition, Video Metadata, Crowd & Vehicle Density, etc.


## Panoramic Series

### Panoramic

Model	PSDW83242M-A360-D845L-S3		PSDW82442M-A270-D440-S3		PSDW81642M-A360-D440-S3	
Appearance	  		  		  	
Image Sensor	Panoramic Eight 1/1.8" 4MP CMOS	PTZ 1/1.8" 8MP CMOS	Panoramic Six 1/1.8" 4MP CMOS	PTZ 1/1.8" 4MP CMOS	Panoramic Eight 1/1.8" 2MP CMOS	PTZ 1/1.8" 4MP CMOS
Focal Length	2.8mm/F1.0		2.8mm/F1.0		2.8mm/F1.0	
FOV-H	360°		270°		360°	
Min. Illumination	0.001 lux @F1.0 (Color, 30 IRE) 0.0001 lux @F1.0 (B/W, 30 IRE)	0.001 lux @F1.5 (Color, 30 IRE) 0.0001 lux @F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0005 lux @F1.0 (Color, 30 IRE) 0.0002 lux @F1.0 (B/W, 30 IRE)	0.001 lux @F1.4 (Color, 30 IRE) 0.0005 lux @F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)	0.0005 lux @F1.0 (Color, 30 IRE) 0.0002 lux @F1.0 (B/W, 30 IRE)	0.001 lux @F1.4 (Color, 30 IRE) 0.0005 lux @F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)
Illumination Distance	--	500m (1640ft) (Laser)	--	400m (1312ft) (IR)	--	400m (1312ft) (IR)
Day/Night	Auto (ICR)/Color/B/W					
WDR	DWDR		120dB		DWDR	
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)	
Smart Codec	Smart H.265+/H.264+		Smart H.265+/H.264+		Smart H.265+/H.264+	
Resolution	32MP (11520x2700)	8MP (3840x2160)	24MP (8192x2700)	4MP (2560x1440)	16MP (8192x1800)	4MP (2560x1440)
Frame Rate	25/30fps@(11520x2700)	25/30fps@(3840x2160)	25/30fps@(8192x2700)	25/30fps@(2560x1440)	25/30fps@(8192x1800)	25/30fps@(2560x1440)
Multi-streaming	3 streams		3 streams		3 streams	
Pan/Tilt/Rotation	--	Pan: 0° ~ 360° endless Tilt: -12° ~ 90°, auto flip 180°	--	Pan: 0° ~ 360° endless Tilt: -11° ~ 90°, auto flip 180°	--	Pan: 0° ~ 360° endless Tilt: -11° ~ 90°, auto flip 180°
Compatibility	ONVIF (Profile S&G&T); CGI; SDK					
Audio In/Out	2/2		2/2		2/2	
Memory Slot	Micro SD, Max. 512GB		Micro SD, Max. 512GB		Micro SD, Max. 512GB	
Alarm In/Out	7/3		7/3		7/3	
Ingress Protection	IP66		IP66		IP66	
Working Environment	-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	36V DC, Max. 71.9W		36V DC, Max. 99W		36V DC, Max. 99W	
<b>Artificial Intelligence</b>						
Face Detection	--	--	--	--	--	--
Face Recognition	--	Supported	--	Supported	--	Supported
Video Metadata	--	Supported	--	Supported	--	Supported
Perimeter Protection	--	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); parking detection, loitering detection, and people gathering.	Intrusion, tripwire, parking detection	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); parking detection, loitering detection, and people gathering.	Intrusion, tripwire, parking detection	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); parking detection, loitering detection, and people gathering.
Vehicle Density	--	--	Vehicle density; parking upper limit; vehicle congestion alarm	--	Vehicle density; parking upper limit; vehicle congestion alarm	--
Crowd Distribution Map	--	--	Crowd map, global crowd density; crowd density in area; people counting in area; smart tracking for crowd density exception	--	Crowd map, global crowd density; crowd density in area; people counting in area; smart tracking for crowd density exception	--





# NETWORK CAMERAS

## Panoramic Series

	Panoramic					
Model	PSDW81642M-A180-D440-S3		PSDW81642S-A360-D425		PSDW8842S-A180-D425	
Appearance	  		  		  	
Image Sensor	Panoramic Four 1/1.8" 4MP CMOS		Panoramic Eight 1/1.8" 2MP CMOS		Panoramic Four 1/1.8" 2MP CMOS	
Focal Length	2.8mm/F1.0		2.8mm/F1.0		2.8mm/F1.0	
FOV-H	180°		360°		180°	
Min. Illumination	0.0005 lux@F1.0 (Color, 30 IRE) 0.0002 lux@F1.0 (B/W, 30 IRE)	PTZ 1/1.8" 4MP CMOS 0.001 lux@F1.4 (Color, 30 IRE) 0.0005 lux @F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)	0.001 lux @F1.0 (Color, 30 IRE) 0.0001 lux@F1.0 (B/W, 30 IRE)	PTZ 1/1.8" 4MP CMOS 0.001 lux @F1.6 (Color, 30 IRE) 0.0001 lux @F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.001 lux @F1.0 (Color, 30 IRE) 0.0001 lux@F1.0 (B/W, 30 IRE)	PTZ 1/1.8" 4MP CMOS 0.001 lux @F1.6 (Color, 30 IRE) 0.0001 lux @F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
Illumination Distance	--	400m (1312ft) (IR)	--	100m (328ft) (IR)	--	100m (328ft)
Day/Night	Auto(ICR)/Color/B/W		Auto(ICR)/Color/B/W		Auto(ICR)/Color/B/W	
WDR	120dB	120dB	DWDR	120dB	120dB	120dB
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)	
Smart Codec	Smart H.265+/H.264+		Smart H.265+/H.264+		Smart H.265+/H.264+	
Resolution	16MP (5520x2700)	4MP (2560x1440)	16MP (8192x1800)	4MP (2688x1520)	8MP (4096x1800)	4MP (2688x1520)
Frame Rate	25/30fps@(5520x2700)	25/30fps@(2560x1440)	25/30fps@(8192x1800)	25/30fps@(2560x1440)	25/30fps@(4096x1800)	25/30fps@(2560x1440)
Multi-streaming	3 streams		3 streams		3 streams	
Pan/Tilt/Rotation	--	Pan: 0° ~ 360° endless Tilt: -11° ~ 90°, auto flip 180°	--	Pan: 0° ~ 360° endless Tilt: -10° ~ 90°, auto flip 180°	--	Pan: 0° ~ 360° endless Tilt: -10° ~ 90°, auto flip 180°
Compatibility	ONVIF (Profile S&G&T); CGI; SDK		ONVIF (Profile S&G&T); CGI; SDK		ONVIF (Profile S&G&T); CGI; SDK	
Audio In/Out	2/2		2/1, built-in Dual Mic and dual Speakers		2/1, built-in Dual Mic and Speaker	
Memory Slot	Micro SD, Max. 512GB		Micro SD, Max. 512GB		Micro SD, Max. 512GB	
Alarm In/Out	7/3		3/2		3/2	
Ingress Protection	IP66		IP67		IP67	
Working Environment	-40°C~-70°C (-40°F~+158°F)		-40°C~-60°C (-40°F~+140°F)		-40°C~-60°C (-40°F~+140°F)	
Power	36V DC, Max. 99W		36V DC, Max. 99W		36V DC, Max. 99W	
<b>Artificial Intelligence</b>						
Face Detection	--	--	--	Supported	--	Supported
Face Recognition	--	Supported	--	--	--	--
Video Metadata	--	Supported	--	Supported	--	Supported
Perimeter Protection	Intrusion, tripwire, parking detection	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); parking detection, loitering detection, and people gathering.	Intrusion, tripwire	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); parking detection, loitering detection, and people gathering.	Intrusion, tripwire	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); parking detection, loitering detection, and people gathering.
Vehicle Density	Vehicle density; parking upper limit; vehicle congestion alarm	--	--	--	--	--
Crowd Distribution Map	Crowd map, global crowd density; crowd density in area; people counting in area; smart track for crowd density exception	--	--	--	--	--

## Panoramic Series

### Panoramic






Model	IPC-PFW83242-A180-S2	IPC-PFW81642-A180	IPC-PDBW82041-B360-S2	IPC-HDBW5441F-AS-E2
Appearance	 <b>Wiz Mind</b> 8K Starlight	 <b>Wiz Mind</b> Starlight+	 <b>Wiz Mind</b> Starlight	 <b>Wiz Mind</b> Starlight
Image Sensor	Four 1/1.8" 8MP CMOS	Four 1/1.8" 4MP CMOS	Four 1/2.7" 5MP CMOS	Two 1/2.7" 4MP CMOS
Focal Length	2.8mm/F1.6	2.8mm/F1.6	2.8~12mm/F1.7	2.8mm/F1.6; 3.6mm/F1.6
FOV-H	180°	180°	4*(100°~42°)	2.8mm: 95°; 3.6mm: 78°
Min. Illumination	0.005 lux@F1.6 (Color, 30 IRE) 0.0005 lux@F1.6 (B/W, 30 IRE) 0 Lux (Illuminator on)	0.001 lux@F1.6 (Color, 30 IRE) 0.0001 lux@F1.6 (B/W, 30 IRE) 0 Lux (Illuminator on)	0.005 lux@F1.7 (Color, 30 IRE); 0.0005 lux@F1.7 (B/W, 30 IRE); 0 Lux (Illuminator on)	0.005 Lux@F1.6 (Color, 30 IRE) 0.0005 Lux@F1.6 (B/W, 30 IRE) 0 Lux (Illuminator on)
Illumination Distance	30m (98ft) (IR)	30m (98ft) (IR)	30m (98ft) (IR)	30m (98ft) (IR)
Day/Night	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W
WDR	DWDR	DWDR	DWDR(4 channel)	120dB
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+
Resolution	32MP(8192x3840)	32MP(5520x2700)	4*5MP(2592x1944)	2*4MP(2560x1440)
Frame Rate	25/30fps@(8192 x 3840)	25/30fps@(5520 x 2700)	25/30fps@(2592x1944)	25/30fps@(2560 x 1440)
Multi-streaming	3 streams	3 streams	4*3 streams	2*3 streams
Pan/Tilt/Rotation	Pan: 0°~355°; Tilt: 0°~90°; Rotation: 0°~360°	Tilt: 0°~90°; Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~75°; Rotation: 0°~355°	Pan: 0°~175°; Tilt: 0°~65°; Rotation: 0°~360°
Compatibility	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	1/1	1/1	1/1	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	2/2	2/2	3/2	2/2
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10, anti-corrosion protection (optional)	IP67, IK10
Working Environment	-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 (-22°F~+140°F)
Power	12V DC/24V AC/PoE+(802.3at), Max. 25W	12V DC/24V AC/PoE+ (802.3at), Max. 24.2W	12V DC/POE+( 802.3at ) Max. 24.7W	12V DC/POE(802.3af) Max. 8W
<b>Artificial Intelligence</b>				
Face Detection	--	--	Supported	Supported
Face Recognition	--	--	--	--
Video Metadata	--	--	--	--
Perimeter Protection	Intrusion, tripwire, parking detection	Tripwire; Intrusion	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection; people gathering; parking detection	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection; people gathering; parking detection
Vehicle Density	Vehicle density; parking upper limit; vehicle congestion alarm	Vehicle density; parking upper limit; vehicle congestion alarm	--	--
Crowd Distribution Map	Crowd map, global people counting; people counting in area	Crowd map, global people counting; people counting in area	--	--
EPTZ	Supported	Supported	--	--
People Counting	--	--	Supported	Supported
<b>General Intelligence</b>				
IVS	--	--	Abandoned object; missing object	Abandoned object; missing object



# NETWORK CAMERAS




## Panoramic Series

### Panoramic

Model	IPC-PSDW5631S-B360		IPC-PDBW5831-B360	IPC-EB81242-PD	IPC-EBW81242-AS-S2	IPC-EBW81242-AS-IVC-S2
Appearance						
Image Sensor	Panoramic Three 1/2.7" 2MP CMOS	PTZ 1/2.7" 2MP CMOS	/	/	/	/
Focal Length	2.0mm/F2.2	2.7mm~13.5mm/F1.8	2.7~12mm/F1.8	1.85mm/F2.0	1.85mm/F2.0	1.29mm/F2.0
FOV-H	Panoramic: 136°; PTZ: 105.9°~33.3°		4*(105°~44°)	180°	185°	185°
Min. Illumination	0.03Lux/F2.2 (Color, 1/3s, 30 IRE) 0.2Lux/F2.2 (Color, 1/30s, 30 IRE) 0.03Lux/F2.2 (B/W, 1/3s, 30 IRE) 0.2Lux/F2.2 (B/W, 1/30s, 30 IRE)	0.02Lux/F1.8 (Color, 1/3s, 30 IRE) 0.1Lux/F1.8 (Color, 1/30s, 30 IRE) 0.02Lux/F1.8 (B/W, 1/3s, 30 IRE) 0.2Lux/F1.8 (B/W, 1/30s, 30 IRE)	0.005Lux/F1.8 (Color, 1/3s, 30 IRE) 0.06Lux/1.8 (Color, 1/30s, 30 IRE) 0Lux/F1.8 (IR on)	0.01 lux (Color)	0.01 Lux@F2.0 (Color, 30 IRE) 0.001 Lux@F2.0 (B/W, 30 IRE) 0 Lux (Illuminator on)	0.01 Lux@F2.0 (Color, 30 IRE) 0.001 Lux@F2.0 (B/W, 30 IRE) 0 Lux (Illuminator on)
Illumination Distance	15m (49ft) (IR)	400m (1312ft) (IR)	30m (98ft) (IR)	--	10m (33ft) (IR)	10m (33ft) (IR)
Day/Night	Auto(ICR)/Color/B/W		Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W
WDR	DWDR		140dB	DWDR	DWDR	DWDR
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; MJPEG (Only supported by the sub stream)	H.265; H.264; H.264H; MJPEG (Only supported by the sub stream)	H.265; H.264; H.264H; 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+
Resolution	3*1080P (1920x1080)	1080P (1920x1080)	4*1080P (1920x1080)	12MP (2432x2432)	12MP (4000x3000)	12MP (4000x3000)
Frame Rate	25/30fps@(1920x1080)	25/30fps@(1920x1080)	25/30fps@1080P(1920x1080)	20fps@(2432x2432)	25/30fps@12MP (4000x3000)	25/30fps@12MP (4000x3000)
Multi-streaming	2 streams		4*2 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	--	Pan: 0°~355° endless Tilt: 0°~80°	Pan: 0°~360°; Tilt: 0°~80°; Rotation: 0°~355°	--	--	--
Compatibility	ONVIF (Profile S&G&T); CGI; SDK		ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	1/1		1/1	1/1	1/1, Built-in Dual-array Mic and Speaker	1/1, Built-in Dual-array Mic and 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	3/2		1/1	2/2	2/2	2/2
Ingress Protection	--		IP67, IK10	IP67	IP67, IK10	IP67, IK10
Working Environment	-10°C~+50°C (14° F~+122° F)		-30°C~+60°C (-22°F~+140°F)	-30°C~+45°C (-22°F~+113°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	12V DC(±30%), PoE+(802.3at), Max. 16.1W		24V AC/PoE+(802.3at), Max. 31.2W	12V DC, PoE+(802.3at), Max. 8.845W	12V DC, PoE+(802.3at), Max. 13.9W	12V DC, PoE+(802.3at), Max. 13.9W
<b>Artificial Intelligence</b>						
Perimeter Protection	--	--	--	--	Intrusion; Tripwire Supported	Intrusion; Tripwire Supported
People Counting	--	--	--	--	--	--
Parking Space Management (Fisheye)	--	--	--	Supports the mode of 12 parking spaces and 6 parking spaces	--	--
<b>General Intelligence</b>						
IVS	Tripwire, Intrusion		--	--	--	--
Heat Map	--	--	--	--	Supported	Supported

## Panoramic Series

### Panoramic

Model	IPC-EBW8842-AS	IPC-EBW8842-AS-IVC	IPC-EB5541-AS	IPC-EW5541-AS	IPC-EBW81230	IPC-EBW8630
Appearance	 <b>Starlight+</b>	 <b>Starlight+</b>	 <b>Starlight</b>	 <b>Starlight</b>	 <b>Starlight+</b>	 <b>Starlight+</b>
Image Sensor	1/1.7" 8MP CMOS	1/1.7" 8MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/1.7" 12MP CMOS	1/1.8" 6MP CMOS
Focal Length	1.85mm/F2.0	1.29mm/F2.0	1.4 mm/F2.0	1.4 mm/F2.0	1.98mm/F2.8	1.7mm/F2.0
FOV-H	185°	185°	180°	180°	180°	180°
Min. Illumination	0.01 Lux@F2.0 (Color, 30 IRE) 0.001 Lux@F2.0 (B/W, 30 IRE) 0 Lux (Illuminator on)	0.01 Lux@F2.0 (Color, 30 IRE) 0.001 Lux@F2.0 (B/W, 30 IRE) 0 Lux (Illuminator on)	0.006 Lux@F2.0 (Color, 30IRE)	0.006 Lux@F2.0 (Color, 30 IRE) 0.0006 Lux@F2.0 (B/W, 30 IRE) 0 Lux (Illuminator on)	0.001Lux/F2.8 (Color, 30 IRE) 0.01Lux/F2.8 (Color, 30 IRE) 0Lux/F2.8 (IR on)	0.002Lux/F2.0 (Color, 30 IRE) 0.02Lux/F2.0 (Color, 30 IRE) 0Lux/F2.0(IR on)
Illumination Distance	10m (33ft) (IR)	10m (33ft) (IR)	--	10m (32.8ft) (IR)	10m (32.8ft) (IR)	10m (32.8ft) (IR)
Day/Night	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W
WDR	DWDR	DWDR	120 dB	120 dB	DWDR	DWDR
Video Compression	H.265; H.264; H.264H; MJPEG (Only supported by the sub stream)	H.265; H.264; H.264H; 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.265/H.264
Smart Codec	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	Smart H.265+/H.264+	--	--
Resolution	8MP(3280×2480)	8MP(3280×2480)	5MP (2592×1944)	5MP (2592×1944)	12MP (4000×3000)	6MP (3072×2048)
Frame Rate	25/30fps@8MP (3280×2480)	25/30fps@8MP (3280×2480)	25/30fps@5MP (2592×1944)	25/30fps@5MP (2592×1944)	25fps@12MP (4000×3000)	25/30fps@6MP (3072×2048)
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt/Rotation	--	--	--	--	--	--
Compatibility	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF(Profile T); CGI; SDK	ONVIF(Profile T); CGI; SDK
Audio In/Out	1/1; Built-in Dual-array Mic and Speaker	1/1; Built-in Dual-array Mic and Speaker	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	Micro SD, Max. 128GB	Micro SD, Max. 128GB
Alarm In/Out	2/2	2/2	1/1	1/1	2/2	2/2
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	--	IP67, IK10	IP67, IK10
Working Environment	-40°C~-60°C (-40°F~+140°F)	-40°C~-60°C (-40°F~+140°F)	-30°C~+55°C(-22°F~+131°F)	-10°C~+50°C (14°F~+122°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)
Power	12V DC, PoE+(802.3at), Max. 13.9W	12V DC, PoE+(802.3at), Max. 13.9W	12V DC/PoE(802.3af), Max. 6W	12V DC/PoE(802.3af), Max.8.8W	12V DC, Max. 12W	12V DC/PoE (802.3af), Max. 12W
<b>Artificial Intelligence</b>						
Perimeter Protection	Tripwire; Intrusion	Tripwire; Intrusion	Tripwire; Intrusion	Tripwire; Intrusion	Tripwire; Intrusion	Tripwire; Intrusion
People Counting	Supported	Supported	Supported	Supported	--	--
<b>General Intelligence</b>						
IVS	--	--	--	--	--	--
Heat Map	Supported	Supported	Supported	Supported	Supported	Supported

# Special Series Network Camera

Special series products are suitable in various special scenarios. This series has both pinhole network camera and meter reading network camera. The separate and all-in-one design of the pinhole camera provides more options for users and is mainly applied in finance, subway, retail and advertising screens. Meter reading network camera is primarily used in the energy industry, such as water plant and substation.



## Separated Pinhole Network Camera

- 2MP & 4MP
- Various lens options
- WDR
- Audio & Alarm port
- Face Detection
- Perimeter Protection
- IP67 (L3 Lens)



## All-in-One Pinhole Network Camera

- 2MP & 4MP
- Various lens options
- Built-in mic
- WDR
- IVS
- 12VDC








## Macro Meter Reading Network Camera

- 5MP
- 0.03m-0.5m focus distance
- Built-in warm light
- Light filtering system
- Glass heating
- WDR
- IP67
- Easy installation






## Special Series

### Pinhole Camera

Model	IPC-HUM8441-E1-L1	IPC-HUM8241-E1-L1	IPC-HUM8441E-E1-L3-S2	IPC-HUM8241E-E1-L3-S2	IPC-HUM8441-E1-L4
Appearance					
Image Sensor	1/2.7" 4MP CMOS	1/2.8" 2MP CMOS	1/2.7" 4MP CMOS	1/2.7" 2MP CMOS	1/2.7" 4MP CMOS
Focal Length	2.8mm/F2.0	2.8mm/F2.0	2.8mm/F1.6	2.8mm/F1.6	2.8mm/F2.0
FOV-H	101°	105°	102°	109°	101°
Min. Illumination	0.005 Lux@F2.0 (Color, 30 IRE) 0.0005 Lux@F2.0 (B/W, 30 IRE)	0.005 Lux@F2.0 (Color, 30 IRE) 0.0005 Lux@F2.0 (B/W, 30 IRE)	0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE)	0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE)	0.005 Lux@F2.0 (Color, 30 IRE) 0.0005 Lux@F2.0 (B/W, 30 IRE)
Day/Night	Color/B/W	Color/B/W	Color/B/W	Color/B/W	Color/B/W
WDR	120 dB	120 dB	120 dB	120 dB	120 dB
Illumination 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)	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H265+/H264+	Smart H265+/H264+	Smart H265+/H264+	Smart H265+/H264+	Smart H265+/H264+
Max. Resolution	4MP (2688×1520)	1080P (1920×1080)	4MP (2688×1520)	1080P (1920×1080)	4MP (2688×1520)
Frame Rate	25/30fps@4MP	25/30fps@1080P	25/30fps@4MP	25/30fps@1080P	25/30fps@4MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Compatibility	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	2/2	2/2	2/2	2/2	2/2
Ingress Protection	--	--	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)	-40 °C ~+60 °C (-40 °F ~+140 °F)
Power	12V DC/PoE, Max. 4.8W	12V DC/PoE, Max. 4.5W	12V DC/PoE, Max. 5.4 W	12V DC/PoE, Max. 4.5W	12V DC/PoE, Max. 4.8W
<b>Artificial Intelligence</b>					
Face Detection	Supported	Supported	Supported	Supported	Supported
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection
<b>General Intelligence</b>					
IVS	--	--	Object Abandoned/Missing	Object Abandoned/Missing	--

# NETWORK CAMERAS

## Special Series

Pinhole Camera					
Model	IPC-HUM8241-E1-L4	IPC-HUM8441-E1-L5	IPC-HUM8241-E1-L5	IPC-HUM8441-E1	IPC-HUM8441-E2
Appearance					
Image Sensor	1/2.8" 2MP CMOS	1/2.7" 4MP CMOS	1/2.8" 2MP CMOS	1/2.7" 4MP CMOS	1/2.7" 5MP CMOS
Focal Length	2.8mm/F2.0	2.8mm/F2.0	2.8mm/F2.0	2.8mm/F2.0	2.8mm/F2.0
FOV-H	105°	105°	109°	L1: 101° L3: 102° L4: 101° L5: 105°	L1: 101° L3: 102° L4: 101° L5: 105°
Min. Illumination	0.005 Lux@F2.0 (Color, 30 IRE) 0.0005 Lux@F2.0 (B/W, 30 IRE)	0.005 Lux@F2.0 (Color, 30 IRE) 0.0005 Lux@F2.0 (B/W, 30 IRE)	0.005 Lux@F2.0 (Color, 30 IRE) 0.0005 Lux@F2.0 (B/W, 30 IRE)	0.005 Lux@F2.0 (Color, 30 IRE) 0.0005 Lux@F2.0 (B/W, 30 IRE)	0.005 Lux@F2.0 (Color, 30 IRE) 0.0005 Lux@F2.0 (B/W, 30 IRE)
Day/Night	Color/B/W	Color/B/W	Color/B/W	Color/B/W	Color/B/W
WDR	120 dB	120 dB	120 dB	120 dB	120 dB
Illumination 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)	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H265+/H264+	Smart H265+/H264+	Smart H265+/H264+	Smart H265+/H264+	Smart H265+/H264+
Max. Resolution	1080P (1920×1080)	4MP (2688×1520)	1080P (1920×1080)	4MP (2688×1520)	5MP (2592×1944)
Frame Rate	25/30fps@1080P	25/30fps@4MP	25/30fps@1080P	25/30fps@4MP	20fps@5MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Compatibility	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	2/2	2/2	2/2	2/2	2/2
Ingress Protection	--	--	--	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)	-40 °C~+60 °C (-40 °F ~+140 °F)
Power	12V DC/PoE, Max. 4.5W	12V DC/PoE, Max. 4.8W	12V DC/PoE, Max. 4.5W	12V DC/PoE, Max. 4.8W	12V DC/PoE, Max. 7.2W
<b>Artificial Intelligence</b>					
Face Detection	Supported	Supported	Supported	Supported	Supported
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection








## Special Series

### Pinhole Camera

Model	IPC-HUM8241-E1	IPC-HUM8241-E2	IPC-HUM8441-L1	IPC-HUM8441E-L3-S2	IPC-HUM8441-L4
Appearance	 	 	 	 	 
Image Sensor	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.7" 4MP CMOS	1/2.7" 4MP CMOS	1/2.7" 4MP CMOS
Focal Length	2.8mm/F2.0	2.8mm/F2.0	2.8mm/F2.0	2.8/3.6/6/8mm /F1.6	2.8mm/F2.0
FOV-H	L1/L4: 105° L3/L5: 109°	L1/L4: 105° L3/L5: 109°	101°	2.8mm: 102° 3.6mm: 84° 6mm: 52° 8mm: 40°	101°
Min. Illumination	0.005 Lux@F2.0 (Color, 30 IRE) 0.0005 Lux@F2.0 (B/W, 30 IRE)	0.005 Lux@F2.0 (Color, 30 IRE) 0.0005 Lux@F2.0 (B/W, 30 IRE)	0.005 Lux@F2.0 (Color, 30IRE) 0.0005 Lux@F2.0 (B/W, 30IRE)	0.002 Lux@F1.6 (Color, 30IRE) 0.0002 Lux@F1.6 (B/W, 30IRE)	0.005 Lux@F2.0 (Color, 30IRE) 0.0005 Lux@F2.0 (B/W, 30IRE)
Day/Night	Color/B/W	Color/B/W	Color/B/W	Color/B/W	Color/B/W
WDR	120 dB	120 dB	120 dB	120 dB	120 dB
Illumination 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)	--	--	--
Smart Codec	Smart H265+/H264+	Smart H265+/H264+	--	--	--
Max. Resolution	1080P (1920×1080)	1080P (1920×1080)	--	--	--
Frame Rate	25/30fps@1080P	25/30fps@1080P	--	--	--
Multi-streaming	3 streams	3 streams	--	--	--
Compatibility	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	--	--	--
Audio In/Out	1/1	1/1	--	--	--
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	--	--	--
Alarm In/Out	2/2	2/2	--	--	--
Ingress Protection	IP67	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)	-40 °C~+60 °C (-40 °F~+140 °F)
Power	Micro SD, Max. 256GB	12V DC/PoE, Max. 5.5W	--	--	--
<b>Artificial Intelligence</b>					
Face Detection	Supported	Supported	--	--	--
Perimeter Protection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human targets); loitering detection, people gathering, and parking detection	--	--	--

# NETWORK CAMERAS









## Special Series

Pinhole Camera					
Model	IPC-HUM8441-L5	IPC-HUM8241-L1	IPC-HUM8241E-L3-S2	IPC-HUM8231-L4	IPC-HUM8241-L5
Appearance	 <b>Wiz Mind</b> <b>Starlight</b>	 <b>Wiz Mind</b> <b>Starlight</b>	 <b>Wiz Mind</b> <b>Starlight+</b>	 <b>Wiz Mind</b> <b>Starlight</b>	 <b>Wiz Mind</b> <b>Starlight</b>
Image Sensor	1/2.7" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS
Focal Length	2.8mm/F2.2	2.8mm/F2.0	2.8/3.6/6/8mm /F1.6	2.8mm/F2.0	2.8mm /F2.0
FOV-H	105°	105°	2.8mm: 109° 3.6mm: 88° 6mm: 54° 8mm: 42°	105°	109°
Min. Illumination	0.005 Lux@F2.0 (Color, 30IRE) 0.0005 Lux@F2.0 (B/W, 30IRE)	0.005 Lux@F2.0 (Color, 30IRE) 0.0005 Lux@F2.0 (B/W, 30IRE)	0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE)	0.005 Lux@F2.0 (Color, 30IRE) 0.0005 Lux@F2.0 (B/W, 30IRE)	0.005 Lux@F2.0 (Color, 30IRE) 0.0005 Lux@F2.0 (B/W, 30IRE)
Day/Night	Color/B/W	Color/B/W	Color/B/W	Color/B/W	Color/B/W
WDR	120 dB	120 dB	120 dB	120 dB	120 dB
Illumination Distance	--	--	--	--	--
Video Compression	--	--	--	--	--
Smart Codec	--	--	--	--	--
Max. Resolution	--	--	--	--	--
Frame Rate	--	--	--	--	--
Multi-streaming	--	--	--	--	--
Compatibility	--	--	--	--	--
Audio In/Out	--	--	--	--	--
Memory Slot	--	--	--	--	--
Alarm In/Out	--	--	--	--	--
Ingress Protection	--	--	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)	-40°C ~+60°C (-40°F ~+140°F)
Power	--	--	--	--	--

## Special Series

### Pinhole Camera

### Macro Reading Camera

Model	IPC-HUM4231S-L4	IPC-HUM4231S-L5	IPC-HUM4431S-L4	IPC-HUM4431S-L5	IPC-HUM8531M-V-LED
Appearance	 	 	 	 	 
Image Sensor	1/3" 2MP CMOS	1/3" 2MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/2.7" 5MP CMOS
Focal Length	2.8mm/F2.0	2.8mm/3.6mm/F1.6	2.8mm/F2.0	2.8mm/3.6mm/F1.6	3.6 mm/F2.0
FOV-H	96°	L5-2.8 mm: 95°; L5-3.6 mm: 78°;	96°	L5-2.8 mm: 95°; L5-3.6 mm: 78°;	79.6°
Min. Illumination	0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE)	0.01 lux@F1.6 (Color, 30 IRE) 0.001 lux@F1.6 (B/W, 30 IRE)	0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE)	0.01 lux@F1.6 (Color, 30 IRE) 0.001 lux@F1.6 (B/W, 30 IRE)	0.02 lux@F2.0 (Color, 30 IRE) 0.0002 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)
Day/Night	Color/B/W	Color/B/W	Color/B/W	Color/B/W	Color/B/W
WDR	120dB	120dB	120dB	120dB	120dB
Illumination Distance	--	--	--	--	0.5 m (1.64 ft)
Video Compression	H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)	H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)	H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)	H.265; H.264; 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 H265+/H264+	Smart H265+/H264+	Smart H265+/H264+	Smart H265+/H264+	Smart H265+/H264+
Max. Resolution	1080P (1920×1080)	1080P (1920×1080)	4MP (2688×1520)	4MP (2688×1520)	5 MP (2560×1920)
Frame Rate	25/30fps@1080P	25/30fps@1080P	25/30fps@4MP	25/30fps@4MP	25/30fps@5MP
Multi-streaming	2 streams	2 streams	2 streams	2 streams	2 streams
Compatibility	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	1/1; Built-in Mic	1/1; Built-in Mic	1/1; Built-in Mic	1/1; Built-in Mic	Built-in Mic
Memory Slot	--	--	--	--	Micro SD, Max. 256GB
Alarm In/Out	--	--	--	--	--
Ingress Protection	--	--	--	--	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)	-40°C ~+60°C (-40°F~+140°F)
Power	12V DC, Max. 1.2W	12V DC, Max. 1.2W	12V DC, Max. 1.4W	12V DC, Max. 1.4W	12V DC, Max. 5.8W
<b>Artificial Intelligence</b>					
Face Detection	--	--	--	--	--
Perimeter Protection	--	--	--	--	--
<b>General Intelligence</b>					
IVS	Intrusion; Tripwire	Intrusion; Tripwire	Intrusion; Tripwire	Intrusion; Tripwire	--

# NETWORK PTZ CAMERAS







# WizMind Series PTZ Camera

The WizMind Series PTZ cameras adopt advanced AI technologies including deep learning algorithms that primarily focus on people and vehicles, providing higher flexibility and accuracy for end-users. Equipped with intelligent features including Perimeter Protection, Metadata, and Face Recognition, it provides potential risk prevention and real-time event alarm.



## Face Recognition

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



## Auto Tracking

Auto tracking supports target 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	SDT5X425-4Z4-QA-2812		SDT5X425-4Z4-QA-0832		SDT5X405-4F-QA-0600	
Appearance	  		  		  	
	Panoramic	Detail	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	1/1.8" 4MP CMOS	1/1.8" 4MP CMOS
Lens	2.8mm~12mm (4x Optical zoom)	5.4mm~135mm (25x Optical zoom)	8mm~32mm (4x Optical zoom)	5.4mm~135mm (25x Optical zoom)	6mm	10mm~50mm (5x Optical zoom)
FOV-H	99.2°~45.8°	58°~3.5°	42°~15°	58°~3.5°	57°	45°~10°
Min. Illumination	0.001Lux/F1.3 (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)	0.001Lux/F1.0 (Color) 0.0001Lux/F1.0 (B/W)	0.001Lux/F1.35 (Color) 0Lux/F1.35 (IR on)
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	--	100m (328.08 ft)	--	100m (328.08 ft)	--	100 m (328.08 ft)
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	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)	4MP (2688x1520)	4MP (2688x1520)
Frame Rate	30fps@4MP	30fps@4MP	30fps@4MP	30fps@4MP	30fps@4MP	30fps@4MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless; Tilt: 0°~30°	Pan: 0°~305° ; Tilt: -10°~90°	Pan: 0°~360° endless; Tilt: 0°~30°	Pan: 0°~305° ; Tilt: -10°~90°	Pan: 0°~360° endless; Tilt: 0°~30°	Pan: 0°~305° ; Tilt: -10°~90°
Preset Speed	Pan: 100°/s; Tilt: 50°/s	Pan: 360°/s; Tilt: 200°/s	Pan: 100°/s; Tilt: 50°/s	Pan: 360°/s; Tilt: 200°/s	Pan: 100°/s; Tilt: 50°/s	Pan: 360°/s; Tilt: 200°/s
Compatibility	ONVIF (Profile S&G&T); CGI		ONVIF (Profile S&G&T); CGI		ONVIF (Profile S&G&T); CGI	
Audio In/Out	1/1		1/1		1/1	
Memory Slot	Micro SD, Max. 256GB		Micro SD, Max. 256GB		Micro SD, Max. 256GB	
Alarm In/Out	2/1		2/1		2/1	
Ingress Protection	IP67		IP67		IP67	
Working Temperature	-40°C~+65°C (-40°F~+149°F)		-40°C~+65°C (-40°F~+149°F)		-40°C~+65°C (-40°F~+149°F)	
Power	DC36V, Hi-PoE, Max. 40W		DC36V, Hi-PoE, Max. 40W		DC36V, POE+(802.3at), Max.40W	
<b>Artificial Intelligence</b>						
Perimeter Protection	Tripwire, Intrusion (Human & Vehicle), Abandoned/Missing Objects		Tripwire, Intrusion (Human & Vehicle), Abandoned/Missing Objects		Tripwire, Intrusion (Human & Vehicle), Abandoned/Missing Objects	
Auto Tracking	Auto Tracking 3.0		Auto Tracking 3.0		Auto Tracking 3.0	
Video Metadata	Supported		Supported		Supported	
Face Recognition	Supported		Supported		Supported	
Face Detection	Supported		Supported		Supported	
Illegal Parking Detection	--		--		--	
Checkpoint Capture	--		--		--	
Traffic Event	--		--		--	

# NETWORK PTZ CAMERAS

## WizMind Series

### Panoramic & Detail Camera for Traffic

Model	SDT5X425-4Z4-FAJG-2812		SDT5X425-4Z4-FAJG-PV-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	2.8mm~12mm (4x Optical zoom)	5.4mm~135mm (25x Optical zoom)	8mm~32mm (4x Optical zoom)	5.4mm~135mm (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 (2560×1440)	4MP (2560×1440)	4MP (2560×1440)	4MP (2560×1440)
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°~360° endless Tilt: -3°~90°	Pan: 0°~360° endless Tilt: 0°~30°	Pan: 0°~305° Tilt: -3°~90°
Preset 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), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK	ONVIF profile S&G&T, CGI	ONVIF profile S&G&T, CGI
Audio In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	1/1	1/1	1/1	1/1
Ingress Protection	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)
Power	DC36V, Hi-PoE, Max. 40W	DC36V, Hi-PoE, Max. 40W	DC36V, Hi-PoE, Max. 40W	DC36V, Hi-PoE, Max. 40W
<b>Artificial Intelligence</b>				
Perimeter Protection	--	--	--	--
Auto Tracking	--	--	--	--
Video Metadata	--	--	--	--
Face Recognition	--	--	--	--
Face Detection	--	--	--	--
Illegal Parking Detection	--	Supported	--	Supported
Checkpoint Capture	--	Supported	--	Supported
Traffic Event	--	--	--	--

# NETWORK PTZ CAMERAS

## WizMind Series

### Panoramic & Detail Camera

Model	SDT6C425-4P-GB-APV-0280		SDT6C432-4P-GB-APV-0280	
Appearance	  		  	
	Panoramic	Detail	Panoramic	Detail
Image Sensor	1/2.8" 4MP STARVIS™ CMOS	1/2.8" 4MP STARVIS™ CMOS	1/2.8" 4MP STARVIS™ CMOS	1/2.8" 4MP STARVIS™ CMOS
Lens	2.8mm	5.5mm~96.4mm (25x Optical zoom)	2.8mm	4.8mm~154mm (32x Optical zoom)
FOV-H	180°	45°~10°	180°	53.1°~3.4°
Min. Illumination	0.005Lux/F1.0 (Color) 0.0001Lux/F1.0 (B/W)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.005Lux/F1.0 (Color) 0.0001Lux/F1.0 (B/W)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)
WDR	120dB	120dB	120dB	120dB
Max. IR Distance	--	150m (492.13 ft)	--	150m (492.13 ft)
Video Compression	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264
Max. Resolution	4MP (2688x1520)	4MP (2688x1520)	4MP (2688x1520)	4MP (2688x1520)
Frame Rate	30fps@4MP	30fps@4MP	30fps@4MP	30fps@4MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	--	Pan: 0°~250° Tilt: -10°~90°	--	Pan: 0°~250° Tilt: -10°~90°
Preset Speed	Pan: 100°/s; Tilt: 25°/s	Pan: 120°/s; Tilt: 50°/s	Pan: 100°/s; Tilt: 25°/s	Pan: 120°/s; Tilt: 50°/s
Compatibility	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK
Audio In/Out	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	2/1	2/1	2/1	2/1
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, Max.35W	DC36V, Max.35W	DC36V, Max.35W	DC36V, Max.35W
<b>Artificial Intelligence</b>				
Perimeter Protection	Tripwire, Intrusion (Human & Vehicle), Abandoned/Missing Objects	Tripwire, Intrusion (Human & Vehicle), Abandoned/Missing Objects	Tripwire, Intrusion (Human & Vehicle), Abandoned/Missing Objects	Tripwire, Intrusion (Human & Vehicle), Abandoned/Missing Objects
Auto Tracking	--	Auto Tracking 3.0	--	Auto Tracking 3.0
Video Metadata	--	--	--	--
Face Recognition	--	--	--	--
Face Detection	Supported	Supported	Supported	Supported
Illegal Parking Detection	--	--	--	--
Checkpoint Capture	--	--	--	--
Traffic Event	--	--	--	--

# NETWORK PTZ CAMERAS

## WizMind Series

### IR PTZ Camera

Model	SD8C845FG-HNF	SD8C260PA1-HNF	SD8C448PA1-HNF	SD8C848PA1-HNF	SD8C260PA-HNF
Appearance	 <b>H.265+</b> <b>Starlight+</b>	 <b>H.265+</b> <b>Starlight+</b>	 <b>H.265+</b> <b>Starlight+</b>	 <b>H.265+</b> <b>Starlight</b>	 <b>H.265+</b> <b>Starlight</b>
Image Sensor	1/1.2" 8MP STARVIS™ CMOS	1/1.8" 2MP STARVIS™ CMOS	1/1.8" 4MP STARVIS™ CMOS	1/1.8" 8MP STARVIS™ CMOS	1/1.8" 2MP STARVIS™ CMOS
Lens	8mm~360mm (45x Optical zoom)	5.6mm~336mm (60x Optical zoom)	6.25mm~300mm (48x Optical zoom)	6.25mm~300mm (48x Optical zoom)	5.6mm~336mm (60x Optical zoom)
FOV-H	61.5°~2.1°	56.4°~1.2°	64.6°~1.5°	64.6°~1.5°	56.4°~1.2°
Min. Illumination	0.0005Lux/F1.5 (Color) 0Lux/F1.5 (IR on)	0.005Lux/F1.4 (Color) 0Lux/F1.4 (IR on)	0.005Lux/F1.4 (Color) 0Lux/F1.4 (IR on)	0.005Lux/F1.4 (Color) 0Lux/F1.4 (IR on)	0.005Lux/F1.4 (Color) 0Lux/F1.4 (IR on)
WDR	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	250m (820.21 ft)	500m (1640 ft)	500m (1640 ft)	500m (1640 ft)	250m (820.21 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	H.265+/H.265 H.264+/H.264
Max. Resolution	4K (3840×2160)	2MP (1920×1080)	4MP (2560×1440)	4K (3840×2160)	2MP (1920×1080)
Frame Rate	30fps@4K	30fps@2MP	60fps@4M	30fps@4K	30fps@2MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless Tilt: -20°~90°	Pan: 0°~360° endless Tilt: -20°~90°	Pan: 0°~360° endless Tilt: -20°~90°	Pan: 0°~360° endless Tilt: -20°~90°	Pan: 0°~360° endless Tilt: -20°~90°
Preset Speed	Pan: 240° /s; Tilt: 100° /s	Pan: 240° /s; Tilt: 100° /s	Pan: 240° /s; Tilt: 100° /s	Pan: 240° /s; Tilt: 100° /s	Pan: 240° /s; Tilt: 100° /s
Compatibility	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK
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,Hi-POE, Max.33W	DC36V,Hi-POE, Max.33W	DC36V,Hi-POE, Max.33W	DC36V,Hi-POE, Max.33W	DC36V,Hi-POE, Max.33W
<b>Artificial Intelligence</b>					
Perimeter Protection	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Tripwire, intrusion (human & vehicle), abandoned/missing object
Auto Tracking	Auto Tracking 3.0	Auto Tracking 3.0	Auto Tracking 3.0	Auto Tracking 3.0	Auto Tracking 3.0
Video Metadata	Supported	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported	Supported
Face Detection	--	--	--	--	--
Boat Detection	--	--	--	--	--
Water Level Detection	--	--	--	--	--
Floating Object Detection	--	--	--	--	--
Illegal Parking Detection	--	--	--	--	--
Checkpoint Capture	--	--	--	--	--
Traffic Event	--	--	--	--	--

# NETWORK PTZ CAMERAS

## WizMind Series

### IR PTZ Camera




Model	SD8C448PA-HNF	SD8C848PA-HNF	SD8C440FD-HNF	SD8A840-HNF-PA	SD8A440-HNF-PA
Appearance	 <b>WizMind</b> H.265+ Starlight	 <b>WizMind</b> H.265+ Starlight	 <b>WizMind</b> H.265+ Starlight	 <b>WizMind</b> H.265+ Starlight	 <b>WizMind</b> H.265+ Starlight
Image Sensor	1/1.8" 4MP STARVIS™ CMOS	1/1.8" 8MP STARVIS™ CMOS	1/1.8" 8MP STARVIS™ CMOS, Dual-Sensors	1/1.8" 8MP STARVIS™ CMOS	1/1.8" 4MP STARVIS™ CMOS
Lens	6.25mm~300mm (48x Optical zoom)	6.25mm~300mm (48x Optical zoom)	6mm~240mm (40x Optical Zoom)	5.6mm~223mm (40x Optical zoom)	5.6mm~223mm (40x Optical zoom)
FOV-H	64.6°~1.5°	64.6°~1.5°	63.5°~1.8°	63.9°~2.0°	63.9°~2.0°
Min. Illumination	0.005Lux/F1.4 (Color) 0Lux/F1.4 (IR on)	0.005Lux/F1.4 (Color) 0Lux/F1.4 (IR on)	0.0002Lux/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)
WDR	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	250m (820.21 ft)	250m (820.21 ft)	250m (820.21 ft)	500m (1640ft)	500m (1640ft)
Video Compression	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264
Max. Resolution	4MP (2560×1440)	4K (3840×2160)	4MP (2560×1440)	4K (3840×2160)	4MP (2560 x 1440)
Frame Rate	60fps@4M	30fps@4K	30fps/4M	30fps@4K	30fps@4MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless Tilt: -20°~90°	Pan: 0°~360° endless Tilt: -20°~90°	Pan: 0°~360° endless Tilt: -20°~90°	Pan: 0°~360° endless Tilt: -30°~90°	Pan: 0°~360° endless Tilt: -30°~90°
Preset Speed	Pan: 240°/s; Tilt: 100°/s	Pan: 240°/s; Tilt: 100°/s	Pan: 240°/s; Tilt: 100°/s	Pan: 240°/s; Tilt: 120°/s	Pan: 240°/s; Tilt: 120°/s
Compatibility	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK
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, Hi-POE, Max.33W	DC36V, Hi-POE, Max.33W	DC36V, Hi-POE, Max.33W	DC36V, Hi-POE, Max.48W	DC36V, Hi-POE, Max.48W
<b>Artificial Intelligence</b>					
Perimeter Protection	Tripwire, intrusion (human & vehicle), abandoned/missing object	Tripwire, intrusion (human & vehicle), abandoned/missing object	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification
Auto Tracking	Auto Tracking 3.0	Auto Tracking 3.0	Auto Tracking 3.0	Auto Tracking 3.0	Auto Tracking 3.0
Video Metadata	Supported	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported	Supported
Face Detection	--	--	--	--	--
Boat Detection	--	--	--	--	--
Water Level Detection	--	--	--	--	--
Floating Object Detection	--	--	--	--	--
Illegal Parking Detection	--	--	--	--	--
Checkpoint Capture	--	--	--	--	--
Traffic Event	--	--	--	--	--



# NETWORK PTZ CAMERAS

## WizMind Series






### IR PTZ Camera

Model	SD8A845QA-HNF	SD8A440GA-HNV	SD8A3440GA-HNV	SD8A840PA-HNF-5G	SD8A440PA-HNF-5G
Appearance					
Image Sensor	1/1.8" 8MP STARVIS™ CMOS	1/1.8" 4MP STARVIS™ CMOS	1/1.8" 4MP STARVIS™ CMOS	1/1.8" 8MP STARVIS™ CMOS	1/1.8" 4MP STARVIS™ CMOS
Lens	5.5mm~248mm (45x Optical zoom)	5.6mm~223mm (40x Optical zoom)	5.6mm~223mm (40x Optical zoom)	5.6mm~223mm (40x Optical zoom)	5.6mm~223mm (40x Optical zoom)
FOV-H	64.4°~2.0°	63.9°~2.1°	63.9°~2.1°	61.8°~2.2°	61.8°~2.2°
Min. Illumination	0.005Lux/F1.5 (Color) 0Lux/F1.5 (IR on)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.001Lux/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)
WDR	120 dB	120dB	120dB	120dB	120dB
Max. IR Distance	500m (1640ft)	500m (1640ft)	500m (1640ft)	500m (1640ft)	500m (1640ft)
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264	H.265+/H.265 H.264+/H.264
Max. Resolution	4K (3840×2160)	4MP (2560×1440)	4MP (2560×1440)	4K (3840×2160)	4MP (2560×1440)
Frame Rate	30fps@4K	30fps@4MP	30fps@4MP	30fps@4MP	30fps@4MP
Multi-streaming	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°
Preset Speed	Pan: 240°/s; Tilt: 120°/s	Pan: 240°/s; Tilt: 100°/s	Pan: 240°/s; Tilt: 100°/s	Pan: 240°/s; Tilt: 100°/s	Pan: 240°/s; Tilt: 100°/s
Compatibility	ONVIF (Profile S&G&T), CGI	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK
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, IK10	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, Hi-PoE, Max. 48W	DC36V, Hi-PoE, Max. 32W	DC36V, Hi-PoE, Max. 30W	DC36V, Hi-PoE, Max. 48W	DC36V, Hi-PoE, Max. 48W
<b>Artificial Intelligence</b>					
Perimeter Protection	Tripwire, intrusion (human & vehicle), abandoned/missing object	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification
Auto Tracking	Auto Tracking 3.0	Auto Tracking 3.0	Auto Tracking 3.0	Auto Tracking 3.0	Auto Tracking 3.0
Video Metadata	Supported	Supported	Supported	Supported	Supported
Face Recognition	Supported	--	--	Supported	Supported
Face Detection	--	Supported	Supported	--	--
Boat Detection	--	--	--	--	--
Water Level Detection	--	--	--	--	--
Floating Object Detection	--	--	--	--	--
Illegal Parking Detection	--	--	--	--	--
Checkpoint Capture	--	--	--	--	--
Traffic Event	--	--	--	--	--

# NETWORK PTZ CAMERAS

## WizMind Series

### IR PTZ Camera

Model	SD8A840FA-HNT	SD8A440FA-HNT	SD8A840XA-HNP-WP	SD6AL445GB-HNR	SD6AL445GB-HNR-IR
Appearance					
Image Sensor	1/1.8" 8MP STARVIS™ CMOS	1/1.8" 4MP STARVIS™ CMOS	1/1.8" 8MP STARVIS™ CMOS	1/2.8" 4MP STARVIS™ CMOS	1/2.8" 4MP STARVIS™ CMOS
Lens	5.5mm~220mm (40x Optical zoom)	5.5mm~220mm (40x Optical zoom)	5.5mm~220mm (40x Optical zoom)	3.9mm~177.7mm (45x Optical zoom)	3.9mm~177.7mm (45x Optical zoom)
FOV-H	61.8°~2.2°	61.8°~2.2°	63.9°~2.0°	70.3°~1.8°	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)	0.005Lux/F1.4 (Color) 0Lux/F1.6 (IR on)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)
WDR	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	500 m (1640ft)	500 m (1640ft)	250 m (820.21 ft)	550 m (1804 ft)	300 m (984 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	H.265+/H.265 H.264+/H.264
Max. Resolution	4K (3840×2160)	4MP (2560×1440)	4K (3840×2160)	4MP (2560×1440)	4MP (2560×1440)
Frame Rate	30fps@4K	30fps@4MP	30fps@4MP	30fps@4MP	30fps@4MP
Multi-streaming	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: -20°~90°	Pan: 0°~360° endless Tilt: -20°~90°
Preset Speed	Pan: 240°/s; Tilt: 100°/s	Pan: 240°/s; Tilt: 100°/s	Pan: 240°/s; Tilt: 100°/s	Pan: 240°/s; Tilt: 200°/s	Pan: 240°/s; Tilt: 200°/s
Compatibility	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK
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, Hi-PoE, Max. 50W	DC36V, Hi-PoE, Max. 50W	DC36V, Hi-POE, Max. 22W	DC36V, Hi-PoE, Max. 36W	DC36V, Hi-PoE, Max. 36W
<b>Artificial Intelligence</b>					
Perimeter Protection	--	--	--	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification
Auto Tracking	--	--	--	Auto Tracking 3.0	Auto Tracking 3.0
Video Metadata	--	--	--	Supported	Supported
Face Recognition	--	--	--	--	--
Face Detection	--	--	--	Supported	Supported
Boat Detection	--	--	Supported	--	--
Water Level Detection	--	--	Supported	--	--
Floating Object Detection	--	--	Supported	--	--
Illegal Parking Detection	Supported	Supported	--	--	--
Checkpoint Capture	Supported	Supported	--	--	--
Traffic Event	Supported	Supported	--	--	--

# All-environment Series

The 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 can easily cover 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

Model	PTZ85260-HNF-PA-FL	PTZ85848-HNF-PA-FL	PTZ85448-HNF-PA-FL
Appearance	 	 	 
Image Sensor	1/1.8" CMOS	1/1.8" CMOS	1/1.8" CMOS
Lens	5.6mm~336mm	6.25mm~300mm	6.25mm~300mm
FOV-H	56.4°~1.4°	64.9°~1.8°	62.4°~1.8°
Min. Illumination	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)
WDR	120dB	120dB	120dB
Max. IR Distance	1000m (3280.84 ft)	1000m (3280.84 ft)	1000m (3280.84 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
Max. Resolution	1080P (1920×1080)	4K (3840×2160)	4MP (2560×1440)
Frame Rate	30fps@1080P	30fps@4K	30fps@4MP
Multi-streaming	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360°; Tilt: -45°~90°	Pan: 0°~360°; Tilt: -45°~90°	Pan: 0°~360°; Tilt: -45°~90°
Preset Speed	Pan: 160°/s; Tilt: 60°/s	Pan: 160°/s; Tilt: 60°/s	Pan: 160°/s; Tilt: 60°/s
Compatibility	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI, SDK
Audio In/Out	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	7/2	7/2	7/2
Ingress Protection	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)
Power	DC36V, Max. 67.5W	DC36V, Max. 67.5W	DC36V, Max. 67.5W
<b>Artificial Intelligence</b>			
Perimeter Protection	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification
SMD	--	--	--
Auto Tracking	Auto Tracking 3.0	Auto Tracking 3.0	Auto Tracking 3.0
Video Metadata	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported
<b>General Intelligence</b>			
IVS	--	--	--

# NETWORK PTZ CAMERAS

## All-environment Series

### IR Positioning System

Model	PTZ85448-HNF-PA	PTZ85848-HNF-PA	PTZ83440-HNF-PA	PTZ85448-HNF-PA
Appearance	 <b>Wiz Mind</b> H.265+ Starlight+	 <b>Wiz Mind</b> H.265+ Starlight+	 <b>Wiz Mind</b> H.265+ Starlight+	 <b>Wiz Mind</b> H.265+ Starlight+
Image Sensor	1/1.8" CMOS	1/1.8" CMOS	1/1.8" CMOS	1/1.8" 4MP CMOS
Lens	5.6 mm ~ 336 mm	6.25 mm ~ 300 mm	5.5mm~220mm	6.25mm~300mm
FOV-H	56.4° ~ 1.4°	64.9° ~ 1.8°	61.8°~2.2°	62.3°~1.7°
Min. Illumination	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
Max. IR Distance	400m (1312.34 ft)	400m (1312.34 ft)	350m (1148.29ft)	400m (1312.34ft)
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	1080P (1920×1080)	4K (3840×2160)	3MP (2560×1440)	4MP (2560×1440)
Frame Rate	30fps@1080P	30fps@4K	30fps@3MP	30fps@4MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0° ~ 360°; Tilt: -45° ~ 90°	Pan: 0° ~ 360°; Tilt: -45° ~ 90°	Pan: 0° ~ 360°; Tilt: -45° ~ 90°	Pan: 0° ~ 360°; Tilt: -45° ~ 90°
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
Compatibility	ONVIF (Profile S&G), CGI	ONVIF (Profile S&G), CGI	ONVIF (Profile S&G), 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	7/2	7/2	7/2	7/2
Ingress Protection	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)
Power	DC36V, Max. 61.6W	DC36V, Max. 61.6W	DC36V, Max. 61.6W	DC36V, Max. 60W
<b>Artificial Intelligence</b>				
Perimeter Protection	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification
SMD	--	--	--	--
Auto Tracking	Auto Tracking 3.0	Auto Tracking 3.0	Auto Tracking 3.0	Auto Tracking 3.0
Video Metadata	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported
<b>General Intelligence</b>				
IVS	--	--	--	--








# NETWORK PTZ CAMERAS

## All-environment Series

	IR Positioning System	Mobile Positioning System	IR Positioning System	Anti-corrosion PTZ Camera	
Model	PTZ37225-HNP-XB-A-EG	MPTZ1100-2030RA	PTZ19245U-IRB-N(-B)	DH-SD8A840PA-HNF-SL	SD5A225GB-HNR-SL
Appearance	 <b>Wiz Mind</b> H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight
Image Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/1.8" CMOS	1/2.8" CMOS
Lens	4.8 mm~120 mm (25× Optical zoom)	4.5 mm~135 mm (30× Optical zoom)	3.95 mm~177.7 mm (45× Optical zoom)	5.6 mm~223 mm (40× Optical zoom)	4.8 mm~120 mm (25× Optical zoom)
FOV-H	58.7°~3.1°	67.8°~2.77°	70.3°~1.8°	63.9°~2.0°	58.5°~2.8°
Min. Illumination	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.005Lux/F1.4 (Color) 0Lux/F1.4 (IR on)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)
WDR	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	150m (492.13ft)	80m (262ft)	350m (1148ft)	500m (1640ft)	150m (492ft)
Video Compression	H.265+/H.265/H.264+/H.264	H.265/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Max. Resolution	1080P (1920×1080)	1080P (1920×1080)	1080P (1920×1080)	8MP (3840×2160)	1080P (1920×1080)
Frame Rate	60fps@1080P	60fps@1080P	60fps@1080P	30fps@4K	30fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° Tilt: -90°~+90°	Pan: 0°~360° Tilt: -90°~+20°	Pan: 0°~360° Tilt: 0°~360°	Pan: 0°~360° Tilt: -30°~+90°	Pan: 0°~360° Tilt: -15°~+90°
Preset Speed	Pan: 100°/s; Tilt: 93.75°/s	Pan: 90°/s; Tilt: 60°/s	Pan: 120°/s; Tilt: 60°/s	Pan: 240°/s; Tilt: 120°/s	Pan: 400°/s; Tilt: 300°/s
Compatibility	ONVIF (Profile S&G&T), CGI, SDK	ONVIF (Profile S&G&T), CGI	ONVIF (Profile S&G), 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. 128GB	Micro SD, Max. 256GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB
Alarm In/Out	7/2	--	7/2	7/2	2/1
Ingress Protection	IP67	IP66	IP68	IP67	IP67, IK10
Working Temperature	-40°C~+70°C (-40°F~+158°F)	-35°C~+60°C (-31°F~+140°F)	-50°C~+70°C (-58°F~+158°F) -40°C~+70°C (-40°F~+158°F) (-B Model)	-40°C~+70°C (-40°F~+158°F)	-40°C~+70°C (-40°F~+158°F)
Power	DC36V: Max. 24W	DC12V Max. 24W	AC24V: Max. 80W AC24V/Hi-PoE (-B Model): Max. 40W	DC36V, Hi-PoE Max. 48W	DC24V, PoE+ (802.3at) Max. 22W
Artificial Intelligence					
Perimeter Protection	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	--	--	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification
SMD	--	--	--	--	SMD 4.0
Auto Tracking	Auto Tracking 3.0	--	--	Auto Tracking 3.0	Auto Tracking 3.0
Smart Capture	--	--	--	--	--
People Counting	--	--	--	--	--
Face Detection	--	--	--	Supported (Face Recognition)	Supported
Construction Monitoring	Supported	--	--	--	--
General Intelligence					
IVS	--	--	Tripwire, Intrusion, Abandoned/Missing Objects	--	--

# NETWORK PTZ CAMERAS






## All-environment Series

	Anti-corrosion Camera			Explosion-proof Camera	
Model	SD60230U-HNI-SL	SDZW2030U-SL	SDZW2000T-SL	IPC-HDEW8841R-Z	IPC-HDEW8441R-Z
Appearance	 H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight
Image Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/3" CMOS
Lens	4.5mm~135mm (30x Optical zoom)	4.5mm~135mm (30x Optical zoom)	3.6mm/F2.1, 6mm/F2.0	2.7mm~13.5mm motorized lens	2.7mm~13.5mm motorized lens
FOV-H	67.8°~2.4°	67.8°~2.4°	87°/51°	109°~30°	104°~29°
Min. Illumination	0.005Lux/F1.6 (Color) 0.0005Lux/F1.6 (B/W)	0.005Lux/F1.6 (Color) 0.0005Lux/F1.6 (B/W)	0.005Lux/F2.1 (Color) 0Lux/F2.1 (IR on)	0.007Lux/F1.5 (Color) 0.0007Lux/F1.5 (B/W)	0.005Lux/F1.5 (Color) 0.0005Lux/F1.5 (B/W)
WDR	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	--	100m (328ft)	30m (98ft)	40m (131.23ft)	40m (131.23ft)
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 (1920x1080)	1080P (1920x1080)	1080P (1920x1080)	8MP (3840x2160)	8MP (3840x2160)
Frame Rate	60fps@1080P	60fps@1080P	60fps@1080P	30fps@8MP	30fps@4MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° Tilt: -20°~+90°	--	--	Pan: 0°~355° Tilt: 0°~75° Rotation: 0°~355°	Pan: 0°~355° Tilt: 0°~75° Rotation: 0°~355°
Preset Speed	Pan: 600°/s; Tilt: 500°/s	--	--	--	--
Compatibility	ONVIF (Profile S&G), CGI	ONVIF (Profile S&G), CGI	ONVIF (Profile S&G), 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	7/2	2/2	--	3/2	3/2
Ingress Protection	IP68, IK10	IP68	IP68, IK10	IP68, IK10	IP68, IK10
Working Temperature	-40°C~+70°C (-40°F~+158°F)	-40°C~+70°C (-40°F~+158°F)	-40°C~+60°C (-40°F~+140°F)	T5/T100 °C : -40 °C ≤ Tamb ≤ +60 °C (-40 °F to +140 °F) T6/T80 °C : -40 °C ≤ Tamb ≤ +55 °C (-40 °F ~ +131°F)	T5/T100 °C : -40 °C ≤ Tamb ≤ +60 °C (-40 °F to +140 °F) T6/T80 °C : -40 °C ≤ Tamb ≤ +55 °C (~40 °F ~ +131°F)
Power	AC24V, PoE+ (802.3at) Max. 20W	AC24V, DC12V, PoE+ (802.3at) Max. 25W	DC12V, PoE (802.3af) Max. 5W	12V DC/PoE (802.3af) Max. 8.5W	12V DC/PoE (802.3af) Max. 7.3W
<b>Artificial Intelligence</b>					
Perimeter Protection	--	--	--	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection
SMD	--	--	--	SMD 3.0	SMD 3.0
Auto Tracking	--	--	--	--	--
Smart Capture	--	--	--	--	--
People Counting	--	--	--	Supported	Supported
Face Detection	--	--	--	Supported	Supported
<b>General Intelligence</b>					
IVS	Tripwire, Intrusion, Abandoned/Missing Objects	Tripwire, Intrusion, Abandoned/Missing Objects	Tripwire, Intrusion, Abandoned/Missing Objects	Abandoned/Missing Objects	Abandoned/Missing Objects

# NETWORK PTZ CAMERAS

## All-environment Series

### Explosion-proof Camera

Model	ECA2A1400-HN	ECA3A1404-HNR-XB(-F)	ECA7A1425-HNR-XA-F	ECA7B1231-HNP-XA-F	EPC2230U
Appearance	 H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight	 H.265+ Starlight
Image Sensor	1/2.8" CMOS	1/2.8" CMOS	1/1.8" CMOS	1/1.8" CMOS	1/2.8" CMOS
Lens	4mm, 6mm/F1.8	2.8mm~12mm (4× Optical zoom)	5.4mm~135mm (25× Optical zoom)	6mm~186mm (31× Optical zoom)	4.5mm~135mm (30× Optical zoom)
FOV-H	81°/49°	91.9°~42.8°	59.8°~2.8°	59.8°~2.8°	67.8°~2.4°
Min. Illumination	0.005Lux/F1.8 (Color) 0.0005Lux/F1.8 (B/W)	0.005Lux/F1.8 (Color) 0Lux/F1.8 (IR on)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.001Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)
WDR	120dB	120dB	120dB	120dB	120dB
Max. IR Distance	30m (98ft)	40m (131ft)	100m (328 ft)	100m (328 ft)	100m (328 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	H.265+/H.265/H.264+/H.264
Max. Resolution	4MP (2560×1440)	4MP (2560×1440)	4MP (2560×1440)	2MP (1920×1080)	1080P (1920×1080)
Frame Rate	30fps@4MP	30fps@4MP	30fps@4MP	30fps@1080p	60fps@1080P
Multi-streaming	2 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	--	--	--	--	--
Preset Speed	--	--	--	--	--
Compatibility	ONVIF (Profile S&T), CGI	ONVIF (Profile S&G&T), CGI	ONVIF (Profile S&G&T), CGI	ONVIF (Profile S&G&T), CGI	ONVIF (Profile S&G), CGI
Audio In/Out	--	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 512GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	--	2/1	2/1	2/1
Ingress Protection	IP68	IP68	--	IP68	IP68
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	DC12V, PoE (802.3af) Max. 3.5W	DC12V, PoE (802.3af) (-F) Max. 9W	AC100V~240V	AC100V~240V Max. 19W	AC220V (AC100V~240V), Hi-PoE Max. 25W
<b>Artificial Intelligence</b>					
Perimeter Protection	--	Tripwire, Intrusion (Human & Vehicle), Abandoned/Missing Objects	Tripwire, Intrusion (Human & Vehicle), Abandoned/Missing Objects	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	--
SMD	--	SMD Plus	SMD Plus	SMD 3.0	--
Auto Tracking	--	--	--	--	--
Smart Capture	--	Supported	Supported	--	--
People Counting	--	--	--	--	--
Face Detection	--	Supported	Supported	Supported	--
<b>General Intelligence</b>					
IVS	Tripwire, Intrusion	--	--	--	Tripwire, Intrusion, Abandoned/Missing Objects

# NETWORK PTZ CAMERAS

## All-environment Series

### Explosion-proof PTZ Camera

Model	EPC245U-PTZ	EPC245U-PTZ-IR	EPC230U-PTZ	EPC230U-PTZ-IR
Appearance	 	 	 	 
Image Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Lens	3.95mm~177.7mm (45× Optical zoom)	3.95mm~177.7mm (45× Optical zoom)	4.5mm~135mm (30× Optical zoom)	4.5mm~135mm (30× Optical zoom)
FOV-H	70.3°~1.8°	70.3°~1.8°	67.8°~2.4°	67.8°~2.4°
Min. Illumination	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
Max. IR Distance	--	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
Max. Resolution	1080P (1920×1080)	1080P (1920×1080)	1080P (1920×1080)	1080P (1920×1080)
Frame Rate	60fps@1080P	60fps@1080P	60fps@1080P	60fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° Tilt: -90°~+90°	Pan: 0°~360° Tilt: -90°~+90°	Pan: 0°~360° Tilt: -90°~+90°	Pan: 0°~360° 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
Compatibility	ONVIF (Profile S&G), CGI	ONVIF (Profile S&G), CGI	ONVIF (Profile S&G), CGI	ONVIF (Profile S&G), 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	2/1	2/1	2/1	2/1
Ingress Protection	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)
Power	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	--	--	--	--
SMD	--	--	--	--
Auto Tracking	--	--	--	--
Smart Capture	--	--	--	--
People Counting	--	--	--	--
Face Detection	--	--	--	--
<b>General Intelligence</b>				
IVS	--	--	--	--

# NETWORK VIDEO RECORDERS





# WizMind Series NVR

With advanced AI chip and industrial design, the WizMind series delivers more powerful AI performance. Featuring face recognition, perimeter protection, and video metadata algorithm, it provides users with real-time event alarms.



## Superior Performance

Max. 256-ch IP video inputs.  
Up to 32-ch 1080P@30 fps  
decoding and 1024/1024  
Mbps input/record bandwidth.



## Project Features

Supports N+M cluster, RAID,  
redundant power. Drawer-like  
chassis design allows for HDD  
hot swapping.



## Rich Backend AI

Face detection, face  
recognition, video metadata,  
perimeter protection, SMD  
Plus and other AI Functions.



## AI Application

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)-16M	IVSS7024 (DR)-8M	IVSS7016 (DR)-8M	IVSS7016 (DR)-4M
Appearance				
Processor	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
IP Video Inputs	256 channel	256 channel	256 channel	256 channel
Max Input/Record	512Mbps/384Mbps	512Mbps/384Mbps	512Mbps/384Mbps	512Mbps/384Mbps
Max Decoding	24-channel1080p (30 fps)	24-channel1080p (30 fps)	24-channel1080p (30 fps)	24-channel1080p (30 fps)
Display	3HDMI, 1VGA, LCD (optional)	3HDMI, 1VGA, LCD (optional)	3HDMI, 1VGA, LCD (optional)	3HDMI, 1VGA, LCD (optional)
Max HDD	24x16TB	24x16TB	16x16TB	16x16TB
RAID	0/1/5/6/10/50/60	0/1/5/6/10/50/60	0/1/5/6/10/50/60	0/1/5/6/10/50/60
eSATA/Mini SAS	1/2	1/2	1/2	1/2
Audio In/Out	1/1	1/1	1/1	1/1
Alarm In/Out	16/8	16/8	16/8	16/8
Ethernet	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
Power	AC100-127V/AC200-240V 50/60Hz, Redundant (optional) 200W (without HDD, idling) 488W (all HDDs connected)	AC100-127V/AC200-240V 50/60Hz, Redundant (optional) 160W (without HDD, idling) 448W (all HDDs connected)	AC100-127V/AC200-240V 50/60Hz, Redundant (optional) 140W (without HDD, idling) 332W (all HDDs connected)	AC100-127V/AC200-240V 50/60Hz, Redundant (optional) 120W (without HDD, idling) 312W (all HDDs connected)
Star Features	Fisheye Dewarp, Smart Track, N+M	Fisheye Dewarp, Smart Track, N+M	Fisheye Dewarp, Smart Track, N+M	Fisheye Dewarp, Smart Track, N+M
<b>Artificial Intelligence by Device</b>				
Perimeter Protection	Up to 192 channels of perimeter protection	Up to 96 channels of perimeter protection	Up to 96 channels of perimeter protection	Up to 48 channels of perimeter protection
Face Recognition	Up to 256 channels of face recognition with FD camera; Up to 192 channels of face recognition with normal camera; 50 face databases with up to 500,000 face images in total	Up to 256 channels of face recognition with FD camera; Up to 96 channels of face recognition with normal camera; 50 face databases with up to 500,000 face images in total	Up to 256 channels of face recognition with FD camera; Up to 96 channels of face recognition with normal camera; 50 face databases with up to 500,000 face images in total	Up to 160 channels of face recognition with FD camera; Up to 48 channels of face recognition with normal camera; 50 face databases with up to 500,000 face images in total
Video Metadata	Up to 192 channels for video metadata of human face/human body/motor vehicle/non-motor vehicle	Up to 96 channels for video metadata of human face/human body/motor vehicle/non-motor vehicle	Up to 96 channels for video metadata of human face/human body/motor vehicle/non-motor vehicle	Up to 48 channels for video 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
SMD Plus	--	--	--	--
<b>Artificial Intelligence by Camera</b>				
Perimeter Protection	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported
Video Metadata	Supported	Supported	Supported	Supported
SMD Plus	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported
Heat Map	--	--	--	--
ANPR	Supported	Supported	Supported	Supported

# NETWORK VIDEO RECORDERS

## WizMind NVR

### WizMind IVSS

Model	IVSS7012-4M	IVSS7012-2M	IVSS7108-2M	IVSS7108-1M
Appearance				
Processor	Intel Dual Core CPU	Intel Dual Core CPU	Intel Dual Core CPU	Intel Dual Core CPU
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
IP Video Inputs	128 channel	128 channel	128 channel	128 channel
Max Input/Record	400Mbps/320Mbps	400Mbps/320Mbps	400Mbps/320Mbps	400Mbps/320Mbps
Max Decoding	20-channel 1080P (30fps)	20-channel 1080P (30fps)	20-channel 1080P (30fps)	20-channel 1080P (30fps)
Display	3HDMI, 2VGA	3HDMI, 2VGA	4HDMI, 1VGA	4HDMI, 1VGA
Max HDD	12x16TB	12x16TB	8x16TB	8x16TB
RAID	0/1/5/6/10/50/60	0/1/5/6/10/50/60	0/1/5/6/10/50/60	0/1/5/6/10/50/60
eSATA/Mini SAS	1/1	1/1	1/-	1/-
Audio In/Out	1/2	1/2	1/2	1/2
Alarm In/Out	16/8	16/8	16/8	16/8
Ethernet	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
Power	AC100-127V/200-240V 50/60Hz 100 W (without HDD, idling) 244 W (all HDDs connected)	AC100-127V/200-240V 50/60Hz 80W (Without HDD, idling) 224W(all HDDs connected)	AC100V~AC240V 50±2%Hz 38W (Without HDD, idling) 105W(all HDDs connected)	AC100V~AC240V 50±2%Hz 38W (Without HDD, idling) 105W(all HDDs connected)
Star Features	Fisheye Dewarp, Smart Track, N+M	Fisheye Dewarp, Smart Track, N+M	Fisheye Dewarp, Smart Track, N+M	Fisheye Dewarp, Smart Track, N+M
<b>Artificial Intelligence by Device</b>				
Perimeter Protection	Up to 48 channels of perimeter protection	Up to 24 channels of perimeter protection	Up to 24 channels perimeter protection	Up to 12 channels of perimeter protection
Face Recognition	Up to 160 channels face recognition with FD camera; Up to 48 channels face recognition with normal camera; 50 face database with up to 500,000 face images in total	Up to 80 channels of face recognition with FD camera; Up to 24 channels of face recognition with normal camera; 50 face databases with up to 500,000 face images in total	Up to 80 channels of face recognition with FD camera; Up to 24 channels of face recognition with normal camera; 50 face databases with up to 500,000 face images in total	Up to 40 channels of face recognition with FD camera; Up to 12 channels of face recognition with normal camera; 50 face databases with up to 500,000 face images in total
Video Metadata	Up to 48 channels for video metadata of human face/human body/ motor vehicle/non-motor vehicle	Up to 24 channels for video metadata of human face/human body/ motor vehicle/non-motor vehicle	Up to 24 channels for video metadata of human face/human body/ motor vehicle/non-motor vehicle	Up to 12 channels for video 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
SMD Plus	--	--	--	--
<b>Artificial Intelligence by Camera</b>				
Perimeter Protection	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported
Video Metadata	Supported	Supported	Supported	Supported
SMD Plus	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported
Heat Map	--	--	--	--
ANPR	Supported	Supported	Supported	Supported

# NETWORK VIDEO RECORDERS

## WizMind NVR



### WizMind IVSS

Model	IVSS7024DR	IVSS7024	IVSS7016DR	IVSS7016	IVSS7012	IVSS7108
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 channels	256 channels	256 channels	256 channels	128 channels	128 channels
Max Input/Record	RAID:768/768/768Mbps Single Disk:768/512/768Mbps	RAID:768/768/768Mbps Single Disk:768/512/768Mbps	RAID:768/768/768Mbps Single Disk:768/512/768Mbps	RAID:768/768/768Mbps Single Disk:768/512/768Mbps	512Mbps/400Mbps	512Mbps/400Mbps
Max Decoding	24-channel1080p (30 fps)	24-channel1080p (30 fps)	24-channel1080p (30 fps)	24-channel1080p (30 fps)	20-channel1080P (30fps)	20-channel1080P (30fps)
Display	3HDMI, 1VGA, LCD	3HDMI, 1VGA	3HDMI, 1VGA, LCD	3HDMI, 1VGA	3HDMI, 2VGA	4HDMI, 1VGA
Max HDD	24x16TB	24x16TB	16x16TB	16x16TB	12x16TB	8x16TB
RAID	0/1/5/6/10/50/60	0/1/5/6/10/50/60	0/1/5/6/10/50/60	0/1/5/6/10/50/60	0/1/5/6/10/50/60	0/1/5/6/10/50/60
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	1/2
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	AC100-127V/200-240V 50/60Hz Redundant 120W (Without HDD, idling) 408W (all HDDs connected)	AC100-127V/200-240V 50/60Hz Redundant 120W (Without HDD, idling) 408W (all HDDs connected)	AC100-127V/200-240V 50/60Hz, Redundant 100W (without HDD, idling) 292W (all HDDs connected)	AC100-127V/200-240V 50/60Hz, 100W (without HDD, idling) 292W (all HDDs connected)	AC100-127V/200-240V 50/60Hz 80W (Without HDD, idling) 224W (all HDDs connected)	AC100V~240V 35W (Without HDD, idling) 100W (all HDDs connected)
Star Features	Fisheye Dewarp, Smart Track, N+M	Fisheye Dewarp, Smart Track, N+M	Fisheye Dewarp, Smart Track, N+M	Fisheye Dewarp, Smart Track, N+M	Fisheye Dewarp, Smart Track, N+M	Fisheye Dewarp, Smart Track, N+M
<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	--	--	--	--	--	--
ANPR	Supported	Supported	Supported	Supported	Supported	Supported

# NETWORK VIDEO RECORDERS

## WizMind NVR

### WizMind NVR

Model	NVR608RH-128-XI	NVR608RH-64-XI	NVR608RH-32-XI	NVR608H-128-XI	NVR608H-64-XI	NVR608H-32-XI
Appearance						
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	64 channel	32 channel	128 channel	64 channel	32 channel
Max Input/Record	AI disabled: 1024/1024/800 Mbps AI enabled: 512/512/400 Mbps	AI disabled: 1024/1024/800 Mbps AI enabled: 512/512/400 Mbps	AI disabled: 1024/1024/800 Mbps AI enabled: 512/512/400 Mbps	AI disabled: 1024/1024/800 Mbps AI enabled: 512/512/400 Mbps	AI disabled: 1024/1024/800 Mbps AI enabled: 512/512/400 Mbps	AI disabled: 1024/1024/800 Mbps AI enabled: 512/512/400 Mbps
Max Decoding	32-channel 1080P (30fps)	32-channel 1080P (30fps)	32-channel 1080P (30fps)	32-channel 1080P (30fps)	32-channel 1080P (30fps)	32-channel 1080P (30fps)
Display	4HDMI, 2VGA	4HDMI, 2VGA	4HDMI, 2VGA	4HDMI, 2VGA	4HDMI, 2VGA	4HDMI, 2VGA
Max HDD	8x16TB	8x16TB	8x16TB	8x16TB	8x16TB	8x16TB
RAID	0/1/5/6/10	0/1/5/6/10	0/1/5/6/10	0/1/5/6/10	0/1/5/6/10	0/1/5/6/10
eSATA/Mini SAS	1/--	1/--	1/--	1/--	1/--	1/--
Audio In/Out	1/2	1/2	1/2	1/2	1/2	1/2
Alarm In/Out	16/8	16/8	16/8	16/8	16/8	16/8
Ethernet	2 (10/100/1000/2500 Mbps Ethernet port, RJ-45)	2 (10/100/1000/2500 Mbps Ethernet port, RJ-45)	2 (10/100/1000/2500 Mbps Ethernet port, RJ-45)	2 (10/100/1000/2500 Mbps Ethernet port, RJ-45)	2 (10/100/1000/2500 Mbps Ethernet port, RJ-45)	2 (10/100/1000/2500 Mbps Ethernet port, RJ-45)
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 <18W (Without HDD)	AC100V~240V <18W (Without HDD)	AC100V~240V <18W (Without HDD)	AC100V~240V <18W (Without HDD)	AC100V~240V <18W (Without HDD)	AC100V~240V <18W (Without HDD)
Star Features	8K, N+M, RAID, Hot Swapping	8K, N+M, RAID, Hot Swapping	8K, N+M, RAID, Hot Swapping	8K, N+M, RAID, Hot Swapping	8K, N+M, RAID, Hot Swapping	8K, N+M, RAID, Hot Swapping
<b>Artificial Intelligence by Device</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
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	Supported	Supported	Supported	Supported	Supported	Supported
<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



## WizMind NVR

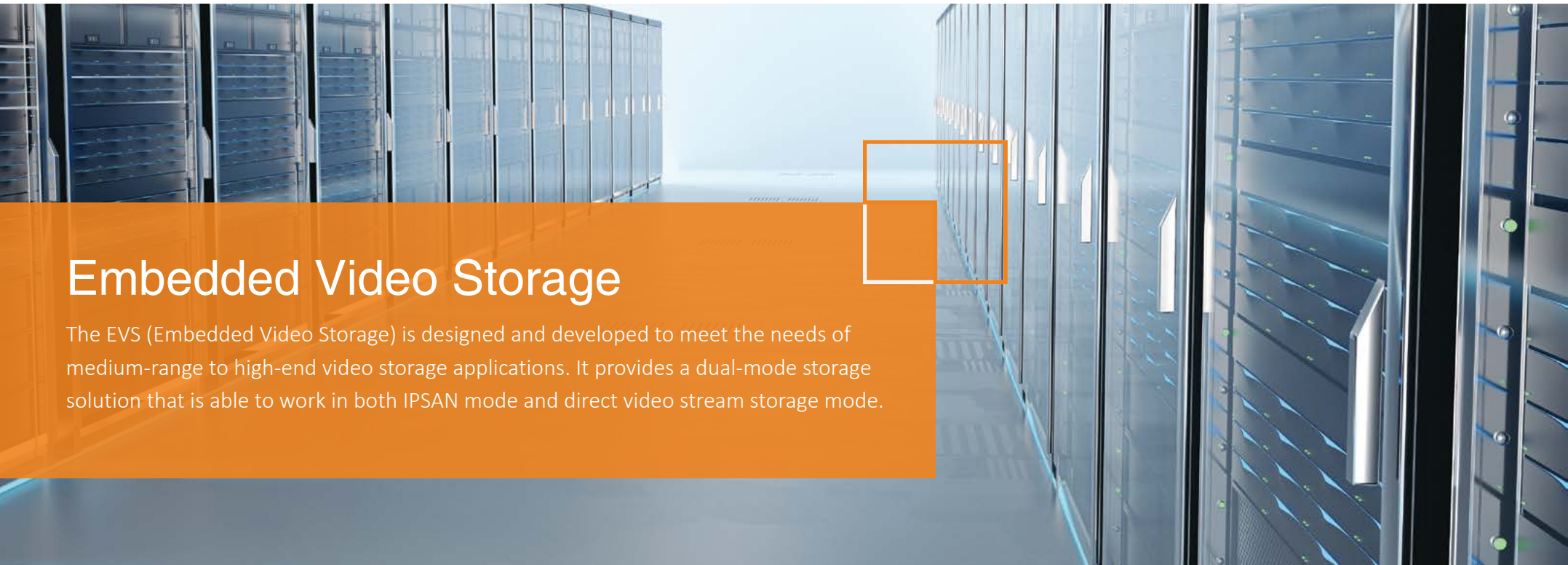
### WizMind NVR

Model	NVR5864-I/L	NVR5832-I/L	NVR5432-16P-I/L	NVR5216-16P-I/L	NVR5216-8P-I/L
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	16-channel 1080P@30 fps	16-channel 1080P@30 fps	16-channel 1080P@30 fps	16-channel 1080P@30 fps	16ch@1080P
Display	2HDMI, 1VGA	2HDMI, 1VGA	2HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	8x10TB	8x10TB	4x10TB	2x10TB	2x10TB
RAID	0/1/5/10	0/1/5/10	--	--	--
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 <15.6W(Without HDD)	AC100V ~ 240V <15.6W(Without HDD)
Star Features	Fisheye Dewarp, POS	Fisheye Dewarp, POS	Fisheye Dewarp, POS, ePoE&EoC, Plug & Play	Fisheye Dewarp, POS, ePoE&EoC, Plug & Play	Fisheye Dewarp, POS, ePoE&EoC, Plug & Play
<b>Artificial Intelligence by Device</b>					
Perimeter Protection	Up to 12 channels of perimeter protection	Up to 12 channels of perimeter protection	Up to 12 channels of perimeter protection	Up to 12 channels of perimeter protection	Up to 12 channels of perimeter protection
Face Recognition	Up to 16 channels of face recognition with FD camera; Up to 4 channels of face recognition with normal camera; 20 face databases with up to 200,000 face images in total	Up to 16 channels of face recognition with FD camera; Up to 4 channels of face recognition with normal camera; 20 face databases with up to 200,000 face images in total	Up to 16 channels of face recognition with FD camera; Up to 4 channels of face recognition with normal camera; 20 face databases with up to 200,000 face images in total	Up to 16 channels of face recognition with FD camera; Up to 4 channels of face recognition with normal camera; 20 face databases with up to 200,000 face images in total	Up to 16 channels of face recognition with FD camera; Up to 4 channels of face recognition with normal camera; 20 face databases with up to 200,000 face images in total
Video Metadata	Up to 4 channels for video metadata of human face/human body/motor vehicle/non-motor vehicle	Up to 4 channels for video metadata of human face/human body/motor vehicle/non-motor vehicle	Up to 4 channels for video metadata of human face/human body/motor vehicle/non-motor vehicle	Up to 4 channels for video metadata of human face/human body/motor vehicle/non-motor vehicle	Up to 4 channels for video 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 12 channels of SMD Plus	Up to 12 channels of SMD Plus	Up to 12 channels of SMD Plus	Up to 12 channels of SMD Plus	Up to 12 channels of 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

NETWORK VIDEO RECORDER

# 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 allow 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	EVS7285S	EVS7148D-V2	EVS7124D-V2	EVS7148S
Appearance					
System	Main processor	Single controller (64-bit multi-core processor)	Double Controller (64-bit multi-core processor)	Double Controller (64-bit multi-core processor)	Single Controller (64-bit multi-core processor)
	Operation system	Embedded Linux	Embedded Linux	Embedded Linux	Embedded Linux
	Memory	16 GB (extendable to 128GB)	16 GB (extendable to 64GB) for each controller	16 GB (extendable to 64GB) for each controller	8 GB (extendable to 64 GB)
Performance	Video direct storage (Private protocol)	1024-channel (2048 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)	1024-channel (2048 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)	1024-channel (2048 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
	IP SAN mode	360-channel (720Mbps) Recording and 24-channel (48Mbps) Playback (I/O size of VMS is 64KB)	360-channel (720Mbps) Recording and 24-channel (48Mbps) Playback (I/O size of VMS is 64KB)	360-channel (720Mbps) Recording and 24-channel (48Mbps) Playback (I/O size of VMS is 64KB)	360-channel (720Mbps) Recording and 24-channel (48Mbps) Playback (I/O size of VMS is 64KB)
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	ANR, Lock key video	ANR, Lock key video	N+M cluster service, ANR, Lock key video
HDD	HDD slot	85	48	24	48
	HDD type	SATA/SAS HDD, Up to 18 TB for each HDD	SATA/SAS HDD, Up to 18 TB for each HDD	SATA/SAS HDD, Up to 18 TB for each HDD	SATA/SAS HDD, Up to 18 TB for each HDD
	RAID	RAID 0/1/5/6/10/50/60, JBOD, Hot spare, JRAID	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 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
	Network Extension (Optional)	2 10-Gigabit optical fiber ports for each controller, 4 1-GbE LAN ports/controller	2 10-Gigabit optical fiber ports for each controller, 4 1-GbE LAN ports/controller	2 10-Gigabit optical fiber ports for each controller, 4 1-GbE LAN ports/controller	2 10-Gigabit optical fiber ports, 4 1-GbE LAN ports
	Mini SAS port	--	1 SAS (up to 12 Gbps)/controller	1 SAS (up to 12 Gbps)/controller	2 SAS (up to 12 Gbps)
General	Power supply	Redundant	Redundant	Redundant	Redundant
	Chassis	4U (Standard 19 inch rack)	6U (Standard 19 inch rack)	4U (Standard 19 inch rack)	6U (Standard 19 inch rack)

# EMBEDDED VIDEO STORAGE

## EVS Series

	Model	EVS7136S	EVS7124S	EVS5148S
	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)
	Operation System	Embedded Linux	Embedded Linux	Embedded Linux
	Memory	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 32-channel (64 Mbps) network playback	512-channel (1024 Mbps) access, storage and forwarding 32-channel (64 Mbps) network playback	320-channel (800Mbps) access and storage 320-channel (800Mbps) forwarding 32-channel (64Mbps) network playback
	Video Direct Storage (ONVIF Protocol)	512-channel (1024 Mbps) access, storage and forwarding 32-channel (64 Mbps) network playback	512-channel (1024 Mbps) access, storage and forwarding 32-channel (64 Mbps) network playback	320-channel (800Mbps) access and storage 320-channel (800Mbps) forwarding 32-channel (64Mbps) network playback
	Video Direct Storage (Auto Register)	512-channel (1024 Mbps) access, storage and forwarding 32-channel (64 Mbps) network playback	512-channel (1024 Mbps) access, storage and forwarding 32-channel (64 Mbps) network playback	320-channel (800Mbps) access and storage 320-channel (800Mbps) forwarding 32-channel (64Mbps) network playback
	IPSAN Mode	360-channel (720Mbps) Recording and 24-channel (48Mbps) Playback (I/O size of VMS is 64KB)	360-channel (720Mbps) Recording and 24-channel (48Mbps) Playback (I/O size of VMS is 64KB)	280-channel (560Mbps) Recording and 24-channel (48Mbps) Playback (I/O size of VMS is 64KB)
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
	Record Mode	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
HDD	HDD Slot	36	24	48
	HDD Type	SATA/SAS HDD, Up to 18 TB for each HDD	SATA/SAS HDD, Up to 18 TB for each HDD	SATA HDD, Up to 18 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
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
External Interface	Ethernet Port	1 Gigabit management port 4 Gigabit data ports	1 Gigabit management port 4 Gigabit data ports	1 RJ-45 10/100 Mbps self-adaptive Ethernet ports. 4 Gigabit data ports
	Network Extension (Optional)	2 10-Gigabit optical fiber ports, 4 1-GbE LAN ports	2 10-Gigabit optical fiber ports, 4 1-GbE LAN ports	2 10-Gigabit optical fiber ports, 4 1-GbE LAN ports
	Mini SAS Port	2 SAS (up to 12 Gbps)	2 SAS (up to 12 Gbps)	--
General	Power Supply	Redundant	Redundant	Redundant
	Chassis	4U (Standard 19 inch rack)	4U (Standard 19 inch rack)	6U (Standard 19 inch rack)



# EMBEDDED VIDEO STORAGE

## EVS Series

	Model	EVS5136S	EVS5124S	EVS5016S-R-V2	EVS5016S-V2
	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	8 GB (extendable to 64 GB)	8 GB (extendable to 64 GB)	8 GB (extendable to 32 GB)	8 GB (extendable to 32 GB)
Performance	Video Direct Storage (Private Protocol)	320-channel (800Mbps) access and storage 320-channel (800Mbps) forwarding 32-channel (64Mbps) network playback	320-channel (800Mbps) access and storage 320-channel (800Mbps) forwarding 32-channel (64Mbps) network playback	320-channel (800Mbps) access and storage 320-channel (800Mbps) forwarding 32-channel (64Mbps) network playback	320-channel (800Mbps) access and storage 320-channel (800Mbps) forwarding 32-channel (64Mbps) network playback
	Video Direct Storage (ONVIF Protocol)	320-channel (800Mbps) access and storage 320-channel (800Mbps) forwarding 32-channel (64Mbps) network playback	320-channel (800Mbps) access and storage 320-channel (800Mbps) forwarding 32-channel (64Mbps) network playback	320-channel (800Mbps) access and storage 320-channel (800Mbps) forwarding 32-channel (64Mbps) network playback	320-channel (800Mbps) access and storage 320-channel (800Mbps) forwarding 32-channel (64Mbps) network playback
	Video Direct Storage (Auto Register)	320-channel (800Mbps) access and storage 320-channel (800Mbps) forwarding 32-channel (64Mbps) network playback	320-channel (800Mbps) access and storage 320-channel (800Mbps) forwarding 32-channel (64Mbps) network playback	320-channel (800Mbps) access and storage 320-channel (800Mbps) forwarding 32-channel (64Mbps) network playback	320-channel (800Mbps) access and storage 320-channel (800Mbps) forwarding 32-channel (64Mbps) network playback
	IPSAN Mode	280-channel (560Mbps) Recording and 24-channel (48Mbps) Playback (I/O size of VMS is 64KB)	280-channel (560Mbps) Recording and 24-channel (48Mbps) Playback (I/O size of VMS is 64KB)	280-channel (560Mbps) Recording and 24-channel (48Mbps) Playback (I/O size of VMS is 64KB)	280-channel (560Mbps) Recording and 24-channel (48Mbps) Playback (I/O size of VMS is 64KB)
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	36	24	16	16
	HDD Type	SATA HDD, Up to 18 TB for each HDD	SATA HDD, Up to 18 TB for each HDD	SATA HDD, Up to 18 TB for each HDD	SATA HDD, Up to 18 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 RJ-45 10/100 Mbps self-adaptive Ethernet ports. 4 Gigabit data ports	1 RJ-45 10/100 Mbps self-adaptive Ethernet ports. 4 Gigabit data ports	2 Gigabit data ports	2 Gigabit data ports
	Network Extension (Optional)	2 10-Gigabit optical fiber ports, 4 1-GbE LAN ports	2 10-Gigabit optical fiber ports, 4 1-GbE LAN ports	2 10-Gigabit optical fiber ports, 4 1-GbE LAN ports	2 10-Gigabit optical fiber ports, 4 1-GbE LAN ports
	Mini SAS Port	--	--	--	--
General	Power Supply	Redundant	Redundant	Redundant	Single
	Chassis	4U (Standard 19 inch rack)	4U (Standard 19 inch rack)	3U (Standard 19 inch rack)	3U (Standard 19 inch rack)



# Portable Mobile Terminal

Portable Mobile Products includes Body Camera, Portable Mobile Terminal, and Data Collection Station. The Body Camera is used to capture evidence when an event occurs, while the Data Collection Station is used to store, search and playback the evidence. The Portable Mobile Terminal is equipped with 5.7" touch screen that allows it to capture evidence and install some third-party applications.



## Portable

The portable device is convenient to carry, making it easier to capture evidence when an event occurs.



## High Performance

It uses 8-core 1.8GHz process and Android 9.0 OS for high performance.



## Easy to operate

The Data Collection Station has touch screen display and web client, enabling easier search and playback of recordings.



## Safe and Reliable

Linux system makes the Data Collection Station more stable and reliable.

# PORTABLE MOBILE TERMINAL

## Body Camera

### Body Camera


Model	MPT221-S	MPT221	MPT220	MPT221-SA
Appearance				
Operation System	Android 9.0	Android 9.0	Android 9.0	Android 9.0
Storage	64GB built-in storage, up to 256GB external storage (microSD Card)	16GB built-in storage, up to 256GB external storage (microSD Card)	16GB built-in storage, up to 256GB external storage (microSD Card)	16GB built-in storage, up to 256GB external storage (microSD Card)
Screen	2.0" touch screen	2.0" touch screen	2.0" touch screen	2.0" touch screen
Image Sensor	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS
Aperture	F2.4	F2.4	F2.4	F2.4
FOV	FOV-H: 124°; FOV-D: 141°	FOV-H: 124°; FOV-D: 141°	FOV-H: 124°; FOV-D: 141°	FOV-H: 124°; FOV-D: 141°
Video Compression	H.265; H.264	H.265; H.264	H.265; H.264	H.265; H.264
Video Resolution	1080P, 720P, WVGA	1080P, 720P, WVGA	1080P, 720P, WVGA	1080P, 720P, WVGA
Frame Rate	1080P@30fps; 720P@60fps, 720P@30fps; WVGA@30fps	1080P@30fps; 720P@60fps, 720P@30fps; WVGA@30fps	1080P@30fps; 720P@60fps, 720P@30fps; WVGA@30fps	1080P@30fps; 720P@60fps, 720P@30fps; WVGA@30fps
Video Format	mp4; dav	mp4; dav	mp4; dav	mp4; dav
Audio Compression	G.711A	G.711A	G.711A	G.711A
Audio Format	dav	dav	dav	dav
Image Resolution	0.4MP/4MP/16MP/34MP	0.4MP/4MP/16MP/34MP	0.4MP/4MP/16MP/34MP	0.4MP/4MP/16MP/34MP
Image Format	JPEG	JPEG	JPEG	JPEG
Dual Stream	Supported	Supported	Supported	Supported
Video Packing Time	5min/10min/20min/30min	5min/10min/20min/30min	5min/10min/20min/30min	5min/10min/20min/30min
Pre-record/Post-record	Up to 60s	Up to 60s	Up to 60s	Up to 60s
LED light	Supported	Supported	Supported	Supported
Cellular Network	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28 LTE-TDD: B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B8 GSM/EDGE: 850/900/1800/1900 MHz	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28 LTE-TDD: B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B8 GSM/EDGE: 850/900/1800/1900 MHz	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B20/B28 LTE-TDD: B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B8 GSM/EDGE: 850/900/1800/1900 MHz	--
Wi-Fi	802.11 a/b/g/n/ac, 2.4GHz; 5GHz	802.11 a/b/g/n/ac, 2.4GHz; 5GHz	802.11 a/b/g/n/ac, 2.4GHz; 5GHz	--
Bluetooth	BT2.1+EDR/3.0/4.1 LE/4.2 BLE	BT2.1+EDR/3.0/4.1 LE/4.2 BLE	BT2.1+EDR/3.0/4.1 LE/4.2 BLE	--
NFC	--	--	Supported	--
Positioning	GPS/GLONASS; AGPS	GPS/GLONASS; AGPS	GPS/GLONASS; AGPS	GPS
Battery Capacity	3000mAh, replaceable	3000mAh, replaceable	3000mAh, replaceable	3000mAh, replaceable
Service Time	>10 h (1080@30 fps recording)	>10 h (1080@30 fps recording)	>10 h (1080@30 fps recording)	>10 h (1080@30 fps recording)
Charging Time	≤2.5 h (5V 2A, fast charge)	≤2.5 h (5V 2A, fast charge)	≤2.5 h (5V 2A, fast charge)	≤2.5 h (5V 2A, fast charge)
Ingress Protection	IP68; 2m drop test	IP68; 2m drop test	IP68; 2m drop test	IP68; 2m drop test
Working Temperature	-20 °C~+55 °C (-4 °F~+131 °F)	-20 °C~+55 °C (-4 °F~+131 °F)	-20 °C~+55 °C (-4 °F~+131 °F)	-20 °C~+55 °C (-4 °F~+131 °F)
Weight	183g (without clamp)	183g (without clamp)	176g (without clamp)	181g (without clamp)
Dimension (H×W×D)	90.1mm×59.2mm×34.2mm (3.54"×2.33"×1.35")	90.1mm×59.2mm×34.2mm (3.54"×2.33"×1.35")	90mm×60mm×31mm (3.54"×2.36"×1.22")	90.1mm×59.2mm×34.2mm (3.54"×2.33"×1.35")
Button	SOS, Power on/off, Fast Camera, Audio Recording, Video Recording, PTT	SOS, Power on/off, Fast Camera, Audio Recording, Video Recording, PTT	SOS, Power on/off, Fast Camera, Audio Recording, Video Recording, PTT	SOS, Power on/off, Fast Camera, Audio Recording, Video Recording, PTT
SIM Card	1 Micro SIM Card slot	1 Micro SIM Card slot	1 Micro SIM Card slot	1 Micro SIM Card slot
Interface	1 Micro USB 2.0	1 Micro USB 2.0	1 Micro USB 2.0	1 Micro USB 2.0

# PORTABLE MOBILE TERMINAL

## Portable Mobile Terminal

Data Collection Station contains two models: EEC300 (Control Module) and EEC300D8-N1 (Data Collection Module), and the two parts work together. It is used to download files from the Body Camera, as well as search and playback the recordings on local screen and web client. Also, it can charge the device once connected and can automatically or manually upgrade the Body Camera's firmware. EEC300 can connect to one EEC300D8-N1 (up to 4 connections possible).

Model	EEC300
Appearance	
Operation System	Linux
Image Sensor	2MP CMOS
Screen	13.3 inch capacitive touchscreen; 1920×1080
Storage	Up to 6x 10TB HDD; Supports RAID 0/1/5/10
General Port	2×RJ-45 100M/1000M Network Port; 1 RS232; 1 USB 2.0; 1 USB 3.0; 1 Speaker
Extension Port	1 Extension Port to connect EEC300D8-N1
LED Light	1
Web Client	Supported
Download Speed	Bandwidth up to 128 MB/s It is recommended to use 2 HDDs at least for optimal collection speed
Login Control	Face Recognition, Fingerprint, Password
Built-in Battery	2600 mAh
Power Supply	100~240 V AC, 50/60 Hz
Working Temperature	-10 °C~+55 °C (+14 °F~+131 °F)
Dimension	630.0mm×280.0mm×89.9mm (24.80"×11.02"×3.54")
Weight	9.48 kg (20.90 lb) (without HDD)

Model	EEC300D8-N1
Appearance	
Number of Dock	8
USB Cable	8×micro USB 2.0 cables
Electronic Lock	1 for each dock
Mechanical Lock	1 at the bottom of the device
Indicator	File download indicator; Network indicator
Extension Port	2 on each side (for connecting control module or expanding data connection module)
Power of Micro USB Port	5 V/1.5 A
Priority Collection	Docks in the first row can be configured to have faster download speed than others when EEC300 is connected to more than one EEC300D8-N1.
Download Speed	Bandwidth up to 128 MB/s
Electronic Lock Control	Face Recognition, Fingerprint, Password
Unlock docks after Power-off	The built-in battery in EEC300 enables unlocking of all docks (through the lock at the bottom of the Data Collection Module) for 10 days in case the EEC300 turns off.
Power Supply	Powered by the extension port of the control module
Working Temperature	-10 °C~+55 °C (+14 °F~+131 °F)
Dimension	630mm×280mm×147.2mm (24.80"×11.02"×5.80")
Weight	8.36 kg (18.43 lb)

# PORTABLE MOBILE TERMINAL

	Portable Mobile Terminal	Shoulder Camera of MPT320	Helmet Camera of MPT320	Single Dock of MPT320
Model	MPT320	MEC-S320	MEC-W320	MAE-D200
Appearance				
Operation System	Android 9.0	--	--	--
Storage	64GB built-in storage, up to 256GB external storage (microSD Card)	--	--	--
Screen	5.7" touch screen	--	--	--
Image Sensor	Main camera: 1/2.8" CMOS Front camera: 1/4" CMOS	1/2.7" CMOS	1/2.7" CMOS	--
Aperture	Main camera: F1.6; Front camera: F1.8	F2.4	F2.4	--
FOV	Main camera: FOV-H: 67°; FOV-D: 78° Front camera: FOV-H: 70°; FOV-D: 85°	FOV-H: 112°; FOV-D: 132°	FOV-H: 112°; FOV-D: 132°	--
Video Compression	H.265; H.264	--	--	--
Video Resolution	1080P, 720P, WVGA	1080P, 720P	1080P, 720P	--
Frame Rate	Main camera: 1080P@30 fps, 720P@60 fps, 720P@30 fps; Front camera: 1080P@30 fps, 720P@30 fps	--	--	--
Video Format	mp4; dav	--	--	--
Audio Compression	G.711A	G.711A	G.711A	--
Audio Format	dav	--	--	--
Image Resolution	16MP/34MP	--	--	--
Image Format	JPEG	--	--	--
Dual Stream	Supported	--	--	--
Video Packing Time	5min/10min/20min/30min	--	--	--
Pre-record/Post-record	Post-record up to 60s	--	--	--
LED light	Supported	Supported	--	--
Cellular Network	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B17/B19/B20/B28 LTE-TDD: B34/B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B8; TD-SCDMA: B34/B39 GSM: B2/B3/B5/B8; CDMA: BCO	--	--	--
Wi-Fi	802.11 b/g/n/ac, 2.4GHz; 5GHz	--	--	--
Bluetooth	5.0	--	--	--
NFC	Supported	--	--	--
Positioning	GPS/BeiDou/GLONASS	--	--	--
Battery Capacity	4600mAh, replaceable	--	--	--
Service Time	> 8 hours (1080P@30 fps)	--	--	--
Charging Time	< 4h	--	--	--
Ingress Protection	IP68; 1.5m drop test	IP66	IP65	--
Working Temperature	-20 °C ~ +55 °C (-4 °F ~ +131 °F)	-30°C ~ +55°C (-22°F ~ +131°F)	-30°C ~ +55°C (-22°F ~ +131°F)	-10°C ~ +55°C (-14°F ~ +131°F)
Weight	307 g	0.077 kg (0.2 lb)	0.075 kg (0.2 lb)	0.418 kg (0.9 lb)
Dimension (H×W×D)	168mm×79mm×17mm (6.61"×3.11"×0.67")	38.4mm×40.2mm×67.5mm (1.5"×1.6"×2.7") (with clamp)	90mm×55mm×107mm (3.5"×2.2"×4.2")	110mm×94.6mm×116.9mm (4.3"×3.7"×4.6")
Button	Volume +, Volume -, Power, PTT, SOS, Fn2, Fn1	Fast Camera/Video Recording, PTT	--	--
SIM Card	2 Nano SIM Card slot	--	--	--
Interface	1 Micro USB 2.0, 1 Extension Port to connect external camera	1 Type-C output	1 Type-C output	1 Power port (12V DC, 2A), 1 RJ-45 10M/100M PoE Port

# NETWORK THERMAL CAMERAS





# Security

The 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 is 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 Heat 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

NETWORK THERMAL CAMERAS

	Model	DHI-TPC-PT8641D	DHI-TPC-PT8441D	DH-TPC-PT8641C	DH-TPC-PT8441C
	Appearance				
Thermal	Image Sensor	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA
	Effective Pixels	640 (H) × 512 (V)	400 (H) × 300 (V)	640 (H) × 512 (V)	400 (H) × 300 (V)
	Sensitivity	≤35mK	≤35mK	≤35mK	≤35mK
	Lens	50mm/75mm/100mm	50mm/75mm/100mm	20mm~100mm 30mm~150mm 38mm~190mm	20mm~100mm 30mm~150mm 38mm~190mm
	FOV-H	H: 12.4°/8.3°/6.2°	H: 7.8°/5.2°/3.9°	H: 31.6°~6.2° H: 20.6°~4.2° H: 16.7°~3.5°	H: 19.3°~3.9° H: 12.9°~2.6° H: 10.2°~2.1°
Visible	Image Sensor	1/1.8" 4M CMOS	1/1.8" 4M CMOS	1/1.8" 4M CMOS	1/1.8" 4M CMOS
	Lens	6mm~336mm	6mm~336mm	6mm~336mm 10mm~600mm 10mm~860mm	6mm~336mm 10mm~600mm 10mm~860mm
	FOV-H	H: 64.4°~1.28°	H: 64.4°~1.28°	H: 64.4°~1.28° H: 41.2°~1.2° H: 20.82°~0.5°	H: 64.4°~1.28° H: 41.2°~1.2° H: 20.82°~0.5°
Laser Range Finder (Optional)	Wavelength	905nm	905nm	1.57μm (Eye safe)	1.57μm (Eye safe)
	Effective Distance	1500m (4921ft) optional	1500m (4921ft) optional	50~5000m (164ft~16404ft)	50~5000m (164ft~16404ft)
Laser Illuminator (Optional)	Wavelength	850±10nm	850±10nm	808±5nm	808±5nm
	Effective Distance	800m (2624ft) optional	800m (2624ft) optional	3000m (9842ft)	3000m (9842ft)
General	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
	Pan/Tilt Range	300 presets, Pan: 0°~360° endless, Tilt: -45°~90°	300 presets, Pan: 0°~360° endless, Tilt: -45°~90°	300 presets, Pan: 0°~360° endless, Tilt: -45°~60°	300 presets, Pan: 0°~360° endless, Tilt: -45°~60°
	Intelligent Video	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Auto Tracking, Boat Detection, Smoke Detection	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Auto Tracking, Boat Detection, Smoke Detection	IVS, Heat Detection & Alarm	IVS, Heat Detection & Alarm
	Compatibility	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI
	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	DC24-57V, ≤92W	DC24-57V, ≤92W	AC100V~300V, <260W	AC100V~300V, <260W





# NETWORK THERMAL CAMERAS

## Ultra Series

	Model	DH-TPC-PT8641B	DH-TPC-PT8441B	DHI-TPC-PT8641MA	DHI-TPC-PT8441MA
Appearance					
Thermal	Image Sensor	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA
	Effective Pixels	640 (H) × 512 (V)	400 (H) × 300 (V)	640 (H) × 512 (V)	400 (H) × 300 (V)
	Sensitivity	≤35mK	≤35mK	≤35mK	≤35mK
	Lens	20mm~100mm 30mm~150mm 38mm~190mm	150mm 20mm~100mm 30mm~150mm 38mm~190mm	13mm/25mm/35mm/50mm	13mm/25mm/35mm/50mm
	FOV-H	H: 31.6°~6.2° H: 20.6°~4.2° H: 16.7°~3.5°	H: 2.6° H: 19.3°~3.9° H: 12.9°~2.6° H: 10.2°~2.1°	H: 48.9°/24.6°/17.6°/12.4°	H: 30.0°/15.5°/11.1°/7.8°
Visible	Image Sensor	1/1.8" 4M CMOS	1/1.8" 4M CMOS	1/1.8" 4M CMOS	1/1.8" 4M CMOS
	Lens	6mm~336mm 10mm~600mm 10mm~860mm	6mm~336mm 10mm~600mm 10mm~860mm	5.5mm~248mm	5.5mm~248mm
	FOV-H	H: 64.4°~1.28° H: 41.2°~1.2° H: 20.82°~0.5°	H: 64.4°~1.28° H: 41.2°~1.2° H: 20.82°~0.5°	H: 67.5°~1.9°	H: 67.5°~1.9°
	IR Distance	--	--	100m (328ft)	100m (328ft)
Laser Range Finder (Optional)	Wavelength	--	--	--	--
	Effective Distance	--	--	--	--
Laser Illuminator (Optional)	Wavelength	--	--	--	--
	Effective Distance	--	--	--	--
General	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
	Pan/Tilt Range	300 presets, Pan: 0°~360° endless, Tilt: -45°~60°	300 presets, Pan: 0°~360° endless, Tilt: -45°~60°	300 presets, Pan: 0°~360° endless, Tilt: -90°~90°	300 presets, Pan: 0°~360° endless, Tilt: -90°~90°
	Intelligent Video	IVS, Heat Detection & Alarm	IVS, Heat Detection & Alarm	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Auto Tracking, Boat Detection	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Auto Tracking, Boat Detection
	Compatibility	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI
	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, <260W	AC100V~300V, <260W	DC10-36V, <50W	DC10-36V, <50W







# NETWORK THERMAL CAMERAS

## Ultra Series

	Model	DHI-TPC-SD8641B	DHI-TPC-SD8441B	DHI-TPC-SDA8641	DHI-TPC-SDA8441
	Appearance				
Thermal	Image Sensor	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA
	Effective Pixels	640 (H) x 512 (V)	400 (H) x 300 (V)	640 (H) x 512 (V)	400 (H) x 300 (V)
	Sensitivity	≤35mK	≤35mK	≤35mK	≤35mK
	Lens	25mm/35mm/50mm	25mm/35mm/50mm	25mm/50mm	25mm/50mm
	FOV-H	H: 24.6°/17.6°/12.4°	H: 15.5°/11.1°/7.8°	H: 24.6°/12.4°	H: 15.5°/7.8°
Visible	Image Sensor	1/1.8" 4M CMOS	1/1.8" 4M CMOS	1/1.8" 4M CMOS	1/1.8" 4M CMOS
	Lens	5.5mm~248mm	5.5mm~248mm	5.5 mm~248 mm	5.5 mm~248 mm
	FOV-H	H: 62.32°~1.71°	H: 62.32°~1.71°	H: 61.8°~2.2°	H: 61.8°~2.2°
	IR Distance	150m (492ft)	150m (492ft)	250m (820ft)	250m (820ft)
General	Video Compression	H.265/H.264/H.264H	H.265/H.264/H.264H	H.265; H.264M; H.264H	H.265; H.264M; H.264H
	Pan/Tilt Range	300 presets, Pan: 0°~360° endless, Tilt: -27°~90°	300 presets, Pan: 0°~360° endless, Tilt: -27°~90°	300 presets, Thermal: Pan: 0°~190°; Tilt: -5°~180° Visible: Pan: 0°~360° endless; Tilt: -30°~90°	300 presets, Thermal: Pan: 0°~190°; Tilt: -5°~180° Visible: Pan: 0°~360° endless; Tilt: -30°~90°
	Intelligent Video	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Auto Tracking, Boat Detection	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Auto Tracking, Boat Detection	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Auto Tracking, Boat Detection	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Auto Tracking, Boat Detection
	Compatibility	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI
	Ingress Protection	IP66	IP66	IP66	IP66
	Working Temperature	-40°C~+70°C	-40°C~+70°C	-40°C~+65°C	-40°C~+65°C
	Power	DC36V/Hi-PoE, <50W	DC36V/Hi-PoE, <50W	DC36V, <58W	DC36V, <58W

# NETWORK THERMAL CAMERAS

## Pro Series

	Model	DHI-TPC-SD5641	DHI-TPC-SD5441	DHI-TPC-BF5641	DHI-TPC-BF5441	DHI-TPC-BF5601	DHI-TPC-BF5401
Appearance							
Thermal	Image Sensor	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA
	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	≤35mK	≤35mK	≤35mK	≤35mK	≤35mK	≤35mK
	Lens	18mm/25mm/35mm	25mm/35mm/50mm	5mm/9mm/13mm/ 19mm/25mm/35mm	7.5mm/13mm/19mm/ 25mm/35mm	7.5mm/13mm/25mm/35mm	7.5mm/13mm/25mm/35mm
	FOV-H	H: 22.9°/17.6°/11.1°	H: 15.5°/11.1°/7.8°	H: 90.0°/50.0°/32.0°/ 22.9°/16.7°/12.5°	H: 53.7°/30.4°/20.3°/15.5°/11.1°	H: 91.2°/48.9°/24.6°/17.6°	H: 53.7°/30.2°/15.5°/11.1°
Visible	Image Sensor	1/2.8" 4M CMOS	1/2.8" 4M CMOS	1/1.8" CMOS	1/1.8" CMOS	--	--
	Lens	3.95mm~177.75mm	3.95mm~177.75mm	4mm/6mm/12mm/10-30mm	4mm/6mm/12mm/10-30mm	--	--
	FOV-H	H: 67.5°~1.9°	H: 67.5°~1.9°	H: 87.0°/55.3°/37.3°/15.5°	H: 87.0°/55.3°/37.3°/15.5°	--	--
	IR Distance	100m (328ft)	100m (328ft)	80m (262.47 ft)	80m (262.47 ft)	--	--
General	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.264/MJPEG	H.265/H.264/MJPEG
	Pan/Tilt Range	300 presets, Pan: 0°~360° endless, Tilt: -10°~90°	300 presets, Pan: 0°~360° endless, Tilt: -10°~90°	--	--	--	--
	Intelligent Video	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Auto Tracking, Boat Detection, Smoke Detection	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Auto Tracking, Boat Detection, Smoke Detection	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Auto Tracking, Smoke Detection	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Auto Tracking, Smoke Detection	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace
	Compatibility	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI
	Ingress Protection	IP66	IP66	IP67	IP67	IP67	IP67
	Working Temperature	-30°C~+60°C	-30°C~+60°C	-30°C~+70°C	-30°C~+70°C	-40°C~+70°C	-40°C~+70°C
	Power	DC36V/Hi-PoE, ≤40W	DC36V/Hi-PoE, ≤40W	DC12V/PoE/ePoE, ≤15W	DC12V/PoE/ePoE, ≤15W	DC12V/PoE/ePoE, <13W	DC12V/PoE/ePoE, <13W





# NETWORK THERMAL CAMERAS

## Anti-corrosion Series

	Model	DHI-TPC-PT8641C-AC	DHI-TPC-PT8641D-AC	DHI-TPC-PT8441D-AC
	Appearance			
Thermal	Image Sensor	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA
	Effective Pixels	640 (H) × 512 (V)	640 (H) × 512 (V)	400 (H) × 300 (V)
	Sensitivity	≤35mK	≤35mK	≤35mK
	Lens	20mm~100mm 30mm~150mm 38mm~190mm	50mm/75mm/100mm	50mm/75mm/100mm
	FOV-H	H: 31.6°~6.2° H: 20.6°~4.2° H: 16.7°~3.5°	H: 12.4°/8.3°/6.2°	H: 7.8°/5.2°/3.9°
Visible	Image Sensor	1/1.8" 4M CMOS	1/1.8" 4M CMOS	1/1.8" 4M CMOS
	Lens	6mm~336mm 10mm~600mm 10mm~860mm	6mm~336mm	6mm~336mm
	FOV-H	H: 64.4°~1.28° H: 41.2°~1.2° H: 20.82°~0.5°	H: 64.4°~1.28°	H: 64.4°~1.28°
Laser Range Finder (Optional)	Wavelength	1.57μm (eye safe)	--	--
	Wavelength	50~5000m (164ft~16404ft)	--	--
	Effective Distance	±2m	--	--
Laser Illuminator (Optional)	Wavelength	808±5nm	808±5nm	808±5nm
	Effective Distance	3000m (9842ft)	800m (2624ft)/2000m (6562ft)	800m (2624ft)/2000m (6562ft)
General	Video Compression	H.265/H.264/MJPEG	H.265/H.264M/H.264H/H.264B	H.265/H.264M/H.264H/H.264B
	Pan/Tilt Range	300 presets, Pan: 0°~360° endless, Tilt: -45°~60°	300 presets, Pan: 0°~360° endless, Tilt: -45°~90°	300 presets, Pan: 0°~360° endless, Tilt: -45°~90°
	Intelligent Video	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Auto Tracking, Boat Detection	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Auto Tracking, Boat Detection	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Auto Tracking, Boat Detection
	Compatibility	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI
	Ingress Protection	IP66	IP66	IP66
	Corrosion Protection	NEMA 4X	NEMA 4X	NEMA 4X
	Working Temperature	-40°C~+70°C	-40°C~+70°C	-40°C~+70°C
	Power	AC100V~300V, <260W	DC24-57V, <100W	DC24-57V, <100W

# NETWORK THERMAL CAMERAS

## Anti-corrosion Series

	Model	DHI-TPC-SD5641-AC	DHI-TPC-SD5441-AC	DHI-TPC-BF5641-AC	DHI-TPC-BF5441-AC
	Appearance				
Thermal	Image Sensor	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA
	Effective Pixels	640 (H) × 512 (V)	400 (H) × 300 (V)	640 (H) × 512 (V)	400 (H) × 300 (V)
	Sensitivity	≤35mK	≤35mK	≤35mK	≤35mK
	Lens	18mm/25mm/35mm	25mm/35mm/50mm	13mm/25mm/35mm	13mm/25mm/35mm
	FOV-H	H: 22.9°/17.6°/12.5°	H: 15.5°/11.1°/7.8°	32.0°/17.6°/12.5°	H: 30.4°/15.5°/11.1°
Visible	Image Sensor	1/2.8" 4M CMOS	1/2.8" 4M CMOS	1/1.8" CMOS	1/1.8" CMOS
	Lens	3.95mm~177.75mm	3.95mm~177.75mm	6mm/12mm/10-30mm	6mm/12mm/10-30mm
	FOV-H	H: 67.5°~1.9°	H: 67.5°~1.9°	H: 55.3°/37.3°/15.5°	H: 55.3°/37.3°/15.5°
	IR Distance	100m (328ft)	100m (328ft)	80m (262ft)	80m (262ft)
General	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
	Pan/Tilt Range	Pan: 0°~360° endless Tilt: -10°~+90°	Pan: 0°~360° endless Tilt: -10°~+90°	--	--
	Intelligent Video	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Auto Tracking, Boat Detection	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Auto Tracking, Boat Detection	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace
	Compatibility	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI
	Ingress Protection	IP66	IP66	IP67	IP67
	Corrosion Protection	NEMA 4X	NEMA 4X	NEMA 4X	NEMA 4X
	Working Temperature	-30°C~+60°C	-30°C~+60°C	-30°C~+70°C	-30°C~+70°C
	Power	DC36V/Hi-PoE, ≤40W	DC36V/Hi-PoE, ≤40W	DC12V/PoE/ePoE, ≤15W	DC12V/PoE/ePoE, ≤15W





# Thermography

Dahua adopts high precision sensor and advanced temperature measurement algorithm, which can realize accurate 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.



## High Accuracy



Its industrial temperature measurement accuracy can reach up to  $\pm 2$  °C.

# NETWORK THERMAL CAMERAS

Ultra Series		Pro Series			
	Model	DHI-TPC-PT8641MA-T	DHI-TPC-PT8441MA-T	DHI-TPC-SD5641-T	DHI-TPC-SD5441-T
	Appearance	 <b>Wiz Mind</b>	 <b>Wiz Mind</b>		
Thermal	Image Sensor	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA
	Effective Pixels	640 (H) × 512 (V)	400 (H) × 300 (V)	640 (H) × 512 (V)	400 (H) × 300 (V)
	Sensitivity	≤35mK	≤35mK	≤35mK	≤35mK
	Lens	7.5mm/13mm/25mm motorized/50mm	7.5mm/13mm/25mm motorized/50mm	18mm motorized/25mm motorized	18mm motorized/25mm motorized
	FOV-H	H: 91.2°/48.9°/24.6°/12.4°	H: 53.7°/30.0°/15.5°/7.8°	H: 24.1°/17.5°	H: 21.4°/15.5°
	Temperature Range & Accuracy	Low Temperature: -20°C~+150°C High Temperature: 0°C~+550°C Max (±2°C, ±2%)/ Operating Temperature: -20°C~60°C	Low Temperature: -20°C~+150°C High Temperature: 0°C~+550°C Max (±2°C, ±2%)/ Operating Temperature: -20°C~60°C	Low Temperature: -20°C~+150°C High Temperature: 0°C~+550°C Max (±2°C, ±2%)	Low Temperature: -20°C~+150°C High Temperature: 0°C~+550°C Max (±2°C, ±2%)
	Measurement Rule	Spot: 12/Line: 12/Area: 12 Supports 12 rules per preset simultaneously	Spot: 12/Line: 12/Area: 12 Supports 12 rules per preset simultaneously	Spot: 12/Line: 12/Area: 12 Supports 12 rules per preset simultaneously	Spot: 12/Line: 12/Area: 12 Supports 12 rules per preset simultaneously
Temperature Alarm	Supported	Supported	Supported	Supported	
Visible	Image Sensor	1/1.8" 4M CMOS	1/1.8" 4M CMOS	1/2.8" 4M CMOS	1/2.8" 4M CMOS
	Lens	5.5mm~248mm	5.5mm~248mm	3.95mm~177.75mm	3.95mm~177.75mm
	FOV-H	H: 67.5°~1.9°	H: 67.5°~1.9°	H: 67.5°~1.9°	H: 67.5°~1.9°
	IR Distance	100m (328ft)	100m (328ft)	100m (328ft)	100m (328ft)
General	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.265/H.264M/H.264H
	Pan/Tilt Range	300 presets, Pan: 0°~360° endless, Tilt: -90°~90°	300 presets, Pan: 0°~360° endless, Tilt: -90°~90°	300 presets, Pan: 0°~360° endless, Tilt: -10°~90°	300 presets, Pan: 0°~360° endless, Tilt: -10°~90°
	Intelligent Video	Cold/Hot Spot Trace, Auto Tracking	Cold/Hot Spot Trace, Auto Tracking	Cold/Hot Spot Trace, Auto Tracking	Cold/Hot Spot Trace, Auto Tracking
	Compatibility	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI
	Ingress Protection	IP66	IP66	IP66	IP66
	Working Temperature	-40°C~+70°C	-40°C~+70°C	-30°C~+60°C	-30°C~+60°C
	Power	DC10-36V, <50W	DC10-36V, <50W	DC36V/Hi-PoE, ≤40W	DC36V/Hi-PoE, ≤40W

# NETWORK THERMAL CAMERAS



Pro Series						On-line Thermography Series		
	Model	DHI-TPC-BF5641-T	DHI-TPC-BF5441-T	DHI-TPC-BF5601-T	DHI-TPC-BF5401-T	DHI-TPC-AT5401-T	DHI-TPC-KF2241-T	
	Appearance							
Thermal	Image Sensor	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	
	Effective Pixels	640 (H) × 512 (V)	400 (H) × 300 (V)	640 (H) × 512 (V)	400 (H) × 300 (V)	400 (H) × 300 (V)	256 (H) × 192 (V)	
	Sensitivity	≤35mK	≤35mK	≤35mK	≤35mK	≤35mK	≤40mK	
	Lens	5mm/9mm/13mm/ 19mm/25mm/35mm	7.5mm/13mm/ 19mm/25mm/35mm	7.5mm/13mm/25mm/35mm	7.5mm/13mm/25mm/35mm	7.5 mm/13 mm/25 mm	2mm	
	FOV-H	H: 90.0°/50.0°/32.0°/ 22.9°/17.6°/12.5°	H: 53.7°/30.4°/20.3°/15.5°/11.1°	H: 91.2°/48.9°/24.6°/17.6°	H: 53.7°/30.2°/15.5°/11.1°	H: 51.2°/30.4°/15.5°	H: 84.8°	
	Temperature Range & Accuracy	Low Temperature: -20°C~+150°C High Temperature: 0°C~+550°C Max (±2°C, ±2%)/ Operating Temperature: (-20°C~60°C)	Low Temperature: -20°C~+150°C High Temperature: 0°C~+550°C Max (±2°C, ±2%)/ Operating Temperature: (-20°C~60°C)	Low Temperature: -20°C~+150°C High Temperature: 0°C~+550°C Max (±2°C, ±2%)/ Operating Temperature: (-20°C~60°C)	Low Temperature: -20°C~+150°C High Temperature: 0°C~+550°C Max (±2°C, ±2%)/ Operating Temperature: (-20°C~60°C)	Low Temperature: -20°C~+150°C High Temperature: 0°C~+550°C Max (±2°C, ±2%)/ Operating Temperature: (-20°C~60°C)	Low Temperature: -20°C~+150°C High Temperature: 0°C~+550°C Max (±2°C, ±2%)/ Operating Temperature: (-20°C~60°C)	Low Temperature: -20°C~+150°C High Temperature: 0°C~+550°C Max (±2°C, ±2%)/ Operating Temperature: (-20°C~50°C)
	Measurement Rule	Spot: 12/Line: 12/Area: 12 Supports 12 rules simultaneously	Spot: 12/Line: 12/Area: 12 Supports 12 rules simultaneously	Spot: 12/Line: 12/Area: 12 Supports 12 rules simultaneously	Spot: 12/Line: 12/Area: 12 Supports 12 rules simultaneously	Spot: 12/Line: 12/Area: 12 Supports 12 rules simultaneously	Spot: 12/Line: 12/Area: 12 Supports 12 rules simultaneously	Spot: 12/Line: 12/Area: 12 Supports 12 rules simultaneously
	Temperature Alarm	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Visible	Image Sensor	1/1.8"CMOS	1/1.8"CMOS	--	--	--	1/2.8"CMOS	
	Lens	4mm/6mm/12mm/10-30mm	4mm/6mm/12mm/10-30mm	--	--	--	2mm	
	FOV-H	H: 87.0°/55.3°/37.3°/15.5°	H: 87.0°/55.3°/37.3°/15.5°	--	--	--	H: 93.4°	
	IR Distance	80m (262.47 ft)	80m (262.47 ft)	--	--	--	4m (13.1 ft)	
General	Video Compression	H.265/H.264M/H.264H/H.264B	H.265/H.264M/H.264H/H.264B	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264M/H.264H/H.264B	H.265; H.264M; H.264H; H.264B; M-JPEG	
	Pan/Tilt Range	--	--	--	--	--	--	
	Intelligent Video	Cold/Hot Spot Trace	Cold/Hot Spot Trace	Cold/Hot Spot Trace	Cold/Hot Spot Trace	Cold/Hot Spot Trace	Cold/Hot Spot Trace	
	Compatibility	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	
	Ingress Protection	IP67	IP67	IP67	IP67	IP54	IP67	
	Working Temperature	-30 °C~+70 °C	-30 °C~+70 °C	-40°C~+70°C	-40°C~+70°C	-20 °C~+60 °C	-20°C~+50°C	
	Power	DC12V/PoE/ePoE, ≤15W	DC12V/PoE/ePoE, ≤15W	DC12V/PoE/ePoE, <13W	DC12V/PoE/ePoE, <13W	DC12V/PoE, <2W	DC12V/PoE/ePoE, <5W	

NETWORK THERMAL CAMERAS

# NETWORK THERMAL CAMERAS

## Explosion-proof

	Model	DHI-TPC-AEPT8641-T	DHI-TPC-AEPT8441-T	DHI-TPC-AEBF5641-T	DHI-TPC-AEBF5441-T	DHI-TPC-AEBF5201-T
Appearance						
Thermal	Image Sensor	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA
	Effective Pixels	640 (H) × 512 (V)	400 (H) × 300 (V)	640 (H) × 512 (V)	400 (H) × 300 (V)	256 (H) × 192 (V)
	Sensitivity	≤40mK	≤40mK	≤40mK	≤40mK	≤40mK
	Lens	9mm/18mm/35mm	9mm/25mm/50mm	9mm/19mm	9mm/13mm/25mm	3.5mm/7mm
	FOV-H	H: 48.3°/24°/12.5°	H: 41°/15.4°/7.8°	H: 43.8°/22.8°	H: 41°/29.9°/15.4°	H: 50.6°/24°
	Temperature Range & Accuracy	Low temperature mode: -20°C~+150°C High temperature mode: 100°C~+550°C Max (±2°C, ±2%) Operating temperature: -20°C~+50°C	Low temperature mode: -20°C~+150°C High temperature mode: 100°C~+550°C Max (±2°C, ±2%) Operating temperature: -20°C~+50°C	Low temperature mode: -20°C~+150°C High temperature mode: 100°C~+550°C Max (±2°C, ±2%) Operating temperature: -20°C~+50°C	Low temperature mode: -20°C~+150°C High temperature mode: 100°C~+550°C Max (±2°C, ±2%) Operating temperature: -20°C~+50°C	Low temperature mode: -20°C~+150°C High temperature mode: 100°C~+550°C Max (±2°C, ±2%) Operating temperature: -20°C~+50°C
	Measurement Rule	Spot: 12 Line: 12 Area: 12 Supports 12 rules simultaneously	Spot: 12 Line: 12 Area: 12 Supports 12 rules simultaneously	Spot: 12 Line: 12 Area: 12 Supports 12 rules simultaneously	Spot: 12 Line: 12 Area: 12 Supports 12 rules simultaneously	Spot: 12 Line: 12 Area: 12 Supports 12 rules simultaneously
Temperature Alarm	Supported	Supported	Supported	Supported	Supported	
Visible	Image Sensor	1/1.8" 4M CMOS	1/1.8" 4M CMOS	1/2.7" 4M CMOS	1/2.7" 4M CMOS	--
	Lens	5.5mm~248mm	5.5mm~248mm	4mm/8mm	4mm/6mm/8mm	--
	FOV-H	H: 61.8°~2.2°	H: 61.8°~2.2°	H: 91.1°/41.3°	H: 91.1°/56°/41.3°	--
	IR Distance	150m	150m	30m	30m	--
General	Video Compression	H.265/H.264M/H.264H/MJPEG	H.265/H.264M/H.264H/MJPEG	H.265/H.264M/H.264H/MJPEG	H.265/H.264M/H.264H/MJPEG	H.265/H.264M/H.264H/MJPEG
	Pan/Tilt Range	300 presets, Pan: 0°~360° endless, Tilt: -90°~90°	300 presets, Pan: 0°~360° endless, Tilt: -90°~90°	--	--	--
	Intelligent Video	Cold/Hot Spot Trace	Cold/Hot Spot Trace	Cold/Hot Spot Trace	Cold/Hot Spot Trace	Cold/Hot Spot Trace
	Compatibility	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI
	Anti-explosion Grade	ATEX: Ex db IIC T6 Gb/ Ex tb IIIC T80°C Db	ATEX: Ex db IIC T6 Gb/ Ex tb IIIC T80°C Db	ATEX: Ex db IIC T6 Gb/ Ex tb IIIC T80°C Db	ATEX: Ex db IIC T6 Gb/ Ex tb IIIC T80°C Db	ATEX: Ex db IIC T6 Gb/ Ex tb IIIC T80°C Db
	Ingress Protection	IP68	IP68	IP68	IP68	IP68
	Working Temperature	-40°C~+70°C	-40°C~+70°C	-40°C~+60°C	-40°C~+60°C	-40°C~+60°C
	Power	AC110~220V, <70W	AC110~220V, <70W	DC12V/PoE/ePoE, <10W	DC12V/PoE/ePoE, <10W	DC12V/PoE, <2W

# NETWORK THERMAL CAMERAS



## Thermal Module

	Model	TPC-NYX5601	TPC-NYX5401	TPC-NYX2211	TPC-NYX5611-T	TPC-NYX5411-T	TPC-NYX2211-T
Appearance							
Thermal	Image sensor	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA
	Effective Pixels	640 (H) × 512 (V)	400 (H) × 300 (V)	256 (H) × 192 (V)	640 (H) × 512 (V)	400 (H) × 300 (V)	256 (H) × 192 (V)
	Sensitivity	≤35mK	≤35mK	≤40mK	≤35mK	≤35mK	≤40mK
	Lens	--	--	2mm/3.5mm/7mm/10mm	7mm/13mm/25mm	7mm/13mm/25mm	2mm/3.5mm/7mm/10mm
	FOV-H	--	--	H: 75.0°/54.2°/24.8°/17.5°	H: 75.7°/32.9°/24.5°	H: 51.8°/29.3°/15.5°	H: 75.0°/54.2°/24.8°/17.5°
	Brightness	Supported	Supported	Supported	Supported	Supported	Supported
	Sharpness	Supported	Supported	Supported	Supported	Supported	Supported
	FPNC	Supported	Supported	Supported	Supported	Supported	Supported
	SFFC	Supported	Supported	Supported	Supported	Supported	Supported
	EE	Supported	Supported	Supported	Supported	Supported	Supported
Temperature Range & Accuracy	--	--	--	Low Temperature: -20°C~+150°C High Temperature: 0°C~+550°C Max (±2°C, ±2%)/ Operating Temperature (-20°C~60°C)	Low Temperature: -20°C~+150°C High Temperature: 0°C~+550°C Max (±2°C, ±2%)/ Operating Temperature (-20°C~60°C)	Low Temperature: -20°C~+150°C High Temperature: 0°C~+550°C Max (±2°C, ±2%)/ Operating Temperature (-20°C~60°C)	
Measurement Rule	--	--	--	Spot: 12 Line: 12 Area: 12 Supports 12 rules simultaneously	Spot: 12 Line: 12 Area: 12 Supports 12 rules simultaneously	Spot: 12 Line: 12 Area: 12 Supports 12 rules simultaneously	
Temperature Alarm	--	--	--	Supported	Supported	Supported	
General	Analog Output	CVBS	CVBS	CVBS	CVBS	CVBS	CVBS
	Digital Video Output	BT.601	BT.601	BT.601	BT.656	BT.656	BT.656
	USB	Supported	Supported	Supported	Supported	Supported	Supported
	RS232	Supported	Supported	Supported	Supported	Supported	Supported
	Dimension	44.4mm×44.4mm×41.57mm (L×W×H)	44.4mm×44.4mm×41.57mm (L×W×H)	29mm×26mm (W×H)	44.4mm×44.4mm (W×H)	44.4mm×44.4mm (W×H)	29mm×26mm (W×H)
	Weight	≤100g (exclude lens)	≤100g (exclude lens)	≤41g	≤115g	≤115g	≤41g
	Working Temperature	-40°C ~+70°C	-40°C ~+70°C	-40°C ~+70°C	-40°C ~+70°C	-40°C ~+70°C	-40°C ~+70°C
	Power	DC5V, 1.5W	DC5V, 1.1W	DC5V, 0.5W	DC5V, 1.5W	DC5V, 1.1W	DC5V, 0.5W

NETWORK THERMAL CAMERAS

# 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 has an allowlist function and can control barrier gates, making it suitable for vehicle entrance & exit management. 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 spot detector is suitable for indoor parking areas. The parking detector can provide comprehensive video surveillance in parking lots, accurately monitoring the status of up to 6 parking spaces while 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

## Traffic Enforcement Product




### Traffic Enforcement Product

Model	ITC431-RW1F-(IR)L	ITC352-AU3F-(IR)LZF1640	ITC952-AU3F-(IR)LZF1640	ITC1652-AU5F-(IR/L)ZF1640
Appearance				
Image Sensor	1/1.8" CMOS	2/3" GS-CMOS	1.1" GS-CMOS	1.1" GS-CMOS
Max. Resolution	4 MP, 2688 (H) × 1520 (V)	3 MP, 2048 (H) × 1536 (V)	9 MP, 4096 (H) × 2824 (V)	16 MP, 5320 (H) × 3032 (V)
Speed Range for LPR	0~180km/h	0~300 km/h	0~300 km/h	0~300km/h
Lincese Plate Recognition	Supported (Global)	Supported (Global)	Supported (Global)	Supported (Global)
Day/Night	ICR	ICR	ICR	ICR
Lens	10-50 mm Motorized / Auto Iris	16-40mm Motorized / Auto Iris	16-40mm Motorized / Auto Iris	16-40mm Motorized / Auto Iris
LPR Monitor Distance	15-30M	23-30M	23-30M	23-30M
WDR	140dB	90 dB	90 dB	120 dB
Electronic Shutter Speed	1/50~1/100000s	1/50~1/100000s	1/50~1/100000s	1/50~1/100000s
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/MJPEG	H.265; H.264M; H.264H; MJPEG	H.265/H.264M/H.264H/MJPEG	H.265/H.264M/H.264H/MJPEG
Frame Rate	2688×1520@25fps, 1600×1200@25fps	1536×2048@25fps, 1600×1200@25fps	4096×2824@25fps, 1600×1200@25fps	5320×3032@15fps, 1600×1200@15fps
Lamp	White/IR light	White/IR light	White/IR light	White/IR light
Ingress Protection	IP67, IK10	IP66, IK10	IP66, IK10	IP66
Interface	2x RS485, 4x RS232 4/2 Channel Alarm In/Out	2x RS485, 4x RS232 4/2 channel Alarm In/Out	2x RS485, 4x RS232 4/2 Channel Alarm In/Out	2x RS485, 4x RS232 4/2 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~+65°C (-40°F~+149°F)	-40°C~+65°C (-40°F~+149°F)	-40°C~+65°C (-40°F~+149°F)	-40°C~+65°C (-40°F~+149°F)
Power	DC12~36 V, PoE Max. 60W	AC100~240 V, Max. 60W	AC100~240 V, Max. 60W	AC100~240 V, Max. 60W

# INTELLIGENT TRANSPORTATION CAMERAS

## Traffic Enforcement Product

### Spotter Series

Model	ITC952-SU2F-PQE-C1R1-(IR/L)ZF1640	HWS1800G-CS	HWS1600D
Appearance			
Image Sensor	1" GS-CMOS	2 x 1" GS-CMOS	1.1" GS-CMOS
Max. Resolution	9 MP, 4096 (H) x 2160 (V)	9 MP, 4096 (H) x 2160 (V)	16 MP, 5320 (H) x 3032(V)
Velocity Range	5~300km/h	5~300km/h	5~300km/h
Lincese Plate Recognition	Supported (Global)	Supported (Global)	Supported (Global)
Day/Night	ICR	ICR	ICR
Radar Frequency	24.05 to 24.25 GHz	24 GHz-24.25 GHz	24 GHz-24.25 GHz
Lens	16-40mm Motorized / Auto Iris	35mm & 50mm	16-40mm Motorized / Auto Iris (DC)
LPR Monitor Distance	23-30M	25-45M	20-40M
WDR	90dB	90dB	90dB
Electronic Shutter Speed	1/50~1/100000s	1/50~1/100000s	1/50~1/100000s
Detection Mode	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/MJPEG	H.265/H.264M/H.264H/MJPEG	H.265/H.264M/H.264H/H.264B/MJPEG
Frame Rate	4096x2160@25 fps, 1600x1200@25 fps	4096x2160@25 fps, 1600x1200@25 fps	5320x3032@25 fps, 1920x1080@25 fps
Lamp	White/IR light	White/IR light	White/IR light
Ingress Protection	IP66	IPX4	--
Image Wireless Transmission	--	4G	3G/4G, Wi-Fi
Interface	1x 10/100/1000M Ethernet, 1 RS485, 1 RS232 1 Channel Alarm Output 6 Optocoupler Signal Output	1 x100/1000M Ethernet	1 x1000M Ethernet, 1 RS485, 1 RS232 1 USB 3.0
Memory Slot	Micro SD, Max. 256GB	1TB SSD	1TB SSD
Working Temperature	-40°C~+65°C (-40°F~+149°F)	-40°C~+65°C (-40°F~+149°F)	-40°C~+65°C (-40°F~+149°F)
Power	36 VDC, Max. 40W	220V, Max. 2000W	24 VDC; power adapter supports 100 VAC to 240 VAC, 50 Hz-60 Hz, Max. 80W

# INTELLIGENT TRANSPORTATION CAMERAS

## Entrance & Exit Control Product

### Short Focus

Model	ITC415-PW6M-L/IZ	ITC415-PW6M-L/IZ-GN	ITC415-PW6M-L/IZ-BH	ITC413-PW4D-IZ/Z1	ITC416-PL8I-IZ
Appearance					
Bracket	Without bracket	With bracket	With pole mount	With junction box and bracket	Floor standing installation
Image Sensor	1/1.8" CMOS	1/1.8" CMOS	1/1.8" CMOS	1/1.8" CMOS	1/1.8" CMOS
Max. Resolution	4MP (2688x1520)	4MP (2688x1520)	4MP (2688x1520)	4MP (2688x1520)	4MP (2688x1520)
Frame Rate	2688x1520@25 fps 2688x1520@30 fps	2688x1520@25 fps 2688x1520@30 fps	2688x1520@25 fps 2688x1520@30 fps	2688x1520@25 fps 2688x1520@30 fps	2688x1520@25 fps 2688x1520@30 fps
Speed Range for LPR	0~60km/h	0~60km/h	0~60km/h	0~80km/h	0~20km/h
Lincese Plate Recognition	Supported (Global)	Supported (Global)	Supported (Global)	Supported (Global)	Supported (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:-
Lens	2.7mm-12mm Motorized / Auto Iris (DC)	2.7mm-12mm Motorized / Auto Iris (DC)	2.7mm-12mm Motorized / Auto Iris (DC)	2.7mm-12mm Motorized / Auto Iris (DC)	2.7mm-12mm Motorized / Auto Iris (DC)
FOV	H: 114.6° (W)-48.3° (T) V: 59.0° (W)-27.1° (T) D: 141.6° (W)-55.5° (T)	H: 114.6° (W)-48.3° (T) V: 59.0° (W)-27.1° (T) D: 141.6° (W)-55.5° (T)	H: 114.6° (W)-48.3° (T) V: 59.0° (W)-27.1° (T) D: 141.6° (W)-55.5° (T)	H: 92° (W)-46.1° (T) V: 49° (W)-26.0° (T) D: 109° (W)-52.8° (T)	H: 115° (W)-47° (T); V: 62° (W)-27° (T); D: 137° (W)-54° (T)
Min. Illumination	0.002 lx (built-in illuminator on)	0.002 lx (built-in illuminator on)	0.002 lx (built-in illuminator on)	0.001 Lux (Color, 30 IRE) 0.0002 Lux (B/W, 30 IRE) 0 Lux (Illuminator on)	0.001 Lux (Color, 30 IRE) 0.0002 Lux (B/W, 30 IRE) 0 Lux (Illuminator on)
WDR	96 dB	96 dB	96 dB	140 dB	140 dB
Illumination Distance	Up to 12M (39.37 ft)	Up to 12M (39.37 ft)	Up to 12M (39.37 ft)	ANPR: 10 m (32.81 ft) Video monitoring: 30 m (98.43 ft)	ANPR: 10 m (32.81 ft) Video monitoring: 20 m (65.62 ft)
Capture Distance	3 m-6 m (9.84 ft-19.69 ft)	3 m-6 m (9.84 ft-19.69 ft)	3 m-6 m (9.84 ft-19.69 ft)	3 m-8 m (9.84 ft-26.25 ft)	2.5 m-6 m (8.20 ft-19.69 ft)
Detected Width	3 m-4 m (9.84 ft-13.12 ft)	3 m-4 m (9.84 ft-13.12 ft)	3 m-4 m (9.84 ft-13.12 ft)	3 m-4 m (9.84 ft-13.12 ft)	3 m-4 m (9.84 ft-13.12 ft)
Detection Mode	Video trigger	Video trigger	Video trigger	Video trigger	Video trigger
Electronic Shutter Speed	1/50~1/10000s	1/50~1/10000s	1/50~1/10000s	1/25s~1/10,000s	1/25s~1/10,000s
Video Compression	H.264M/H.264H/H.265/MJPEG	H.264M/H.264H/H.265/MJPEG	H.264M/H.264H/H.265/MJPEG	H.264H; H.264B; H.264M; H.265; MJPEG;	H.264H; H.264B; H.264M; H.265; MJPEG;
Lamp	Built-in IR/White light	Built-in IR/White light	Built-in IR/White light	Built-in IR/White light	Built-in IR
Ingress Protection	IP67	IP67	IP67	IP67, IK10	IP54
Interface	1 x100/1000M Ethernet, 2 RS485, 3/3 channel Alarm In/Out	1 x100/1000M Ethernet, 2 RS485, 3/3 channel Alarm In/Out	1 x100/1000M Ethernet, 2 RS485, 3/3 channel Alarm In/Out	1 x10/100/1000M Ethernet, 2 RS485, 2/2 channel Alarm In/Out, 1x Wiegand	1 x10/100/1000M Ethernet, 1 RS485, 2/2 channel Alarm In/Out, 1x Wiegand
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)	-40°C~+70°C (-40°F~+158°F)	-40°C~+70°C (-40°F~+158°F)
Memory Slot	1 built-in TF card slot, Max.128G	1 built-in TF card slot, Max.128G	1 built-in TF card slot, Max.128G	1 built-in TF card slot, Max.256G	1 built-in TF card slot, Max.256G
Compatibility	ONVIF (Profile S/Profile G/Profile T); CGI	ONVIF (Profile S/Profile G/Profile T); CGI	ONVIF (Profile S/Profile G/Profile T); CGI	ONVIF (Profile S/Profile G/Profile T); CGI; ITSAPI	ONVIF (Profile S/Profile G/Profile T); CGI; ITSAPI
Power	AC 24V, DC12V, PoE +(802.3at)	AC 24V, DC12V, PoE +(802.3at)	AC 24V, DC12V, PoE +(802.3at)	12 VDC, 2 A and POE+ (802.3at), Type 2, Class 4, (44V to 57V), 0.455A to 0.351A, Max. 20W	12 VDC, 3.5 A, Max. 28W

# INTELLIGENT TRANSPORTATION CAMERAS

## Entrance & Exit Control Product

### Long Focus

Model	ITC437-PW6M-L/IZ	ITC437-PW6M-L/IZ-GN	ITC413-PW4D-IZ/Z3
Appearance			
Bracket	Without	With Bracket	With junction box and bracket
Image Sensor	1/1.8" CMOS	1/1.8" CMOS	1/1.8" CMOS
Max. Resolution	4MP (2688x1520)	4MP (2688x1520)	4MP (2688x1520)
Frame Rate	2688x1520@25 fps 2688x1520@30 fps	2688x1520@25 fps 2688x1520@30 fps	2688x1520@25 fps 2688x1520@30 fps
Speed Range for LPR	0~80km/h	0~80km/h	0~120km/h
Lincese Plate Recognition	Supported (Global)	Supported (Global)	Supported (Global)
Day/Night	IR: Auto(ICR)/Color/B/W White:-	IR: Auto(ICR)/Color/B/W White:-	IR: Auto(ICR)/Color/B/W White:-
Lens	10mm-50mm Motorized / Auto Iris (DC)	10mm-50mm Motorized / Auto Iris (DC)	8mm-32mm Motorized / Auto Iris (DC)
FOV	H: 40.55° (W)—9.33° (T) V: 22.7° (W)—5.3° (T) D: 46.6° (W)—10.63° (T)	H: 40.55° (W)—9.33° (T) V: 22.7° (W)—5.3° (T) D: 46.6° (W)—10.63° (T)	H: 39.9° (W)—15.1° (T) V: 21.8° (W)—8.5° (T) D: 46.6° (W)—17.4° (T)
Min. Illumination	0.002 lx (built-in illuminator on)	0.002 lx (built-in illuminator on)	0.001 Lux (Color, 30 IRE) 0.0002 Lux (B/W, 30 IRE) 0 Lux (Illuminator on)
WDR	96 dB	96 dB	140 dB
Illumination Distance	Up to 30M (98.43 ft)	Up to 30M (98.43 ft)	ANPR: 20 m (65.62 ft) Video monitoring: 60 m (196.85 ft)
Capture Distance	8 m—30 m (26.25 ft to 98.42 ft)	8 m—30 m (26.25 ft to 98.42 ft)	8 m—20 m (26.25 ft—65.62 ft)
Detected Width	6 m—7 m (19.69 ft to 22.97 ft)	6 m—7 m (19.69 ft to 22.97 ft)	6 m—8 m (19.69 ft—26.25 ft)
Detection Mode	Video trigger	Video trigger	Video trigger
Electronic Shutter Speed	1/50~1/10000s	1/50~1/10000s	1/25s~1/10,000s
Video Compression	H.264M/H.264H/H.265/MJPEG	H.264M/H.264H/H.265/MJPEG	H.264H; H.264B; H.264M; H.265; MJPEG;
Lamp	Built-in IR/White light	Built-in IR/White light	Built-in IR/White light
Ingress Protection	IP67	IP67	IP67, IK10
Interface	1 x100/1000M Ethernet, 2 RS485, 3/3 channel Alarm In/Out	1 x100/1000M Ethernet, 2 RS485, 3/3 channel Alarm In/Out	1 x10/100/1000M Ethernet, 2 RS485, 2/2 channel Alarm In/Out, 1x Wiegand
Working Temperature	-30°C~+65°C (-22°F~+149°F)	-30°C~+65°C (-22°F~+149°F)	-40°C~+70°C (-40°F~+158°F)
Memory Slot	1 built-in TF card slot, Max.128G	1 built-in TF card slot, Max.128G	1 built-in TF card slot, Max.256G
Compatibility	ONVIF (Profile S/Profile G/Profile T); CGI	ONVIF (Profile S/Profile G/Profile T); CGI	ONVIF (Profile S/Profile G/Profile T); CGI; ITSAPI
Power	AC 24V, DC12V, PoE +(802.3at)	AC 24V, DC12V, PoE +(802.3at)	12 VDC, 2 A and PoE+ (802.3at), Type 2, Class 4, (44V to 57V), 0.455A to 0.351A, Max. 20W



# INTELLIGENT TRANSPORTATION CAMERAS

## Parking system

### Indoor Guidance Camera (PON)







Model	ITC214-PH5B-F3	ITC214-PH5B-F6	ITC414-PH5B-F2	ITC414-PH5B-F3	ITC414-PH5B-TF2	ITC414-PH5B-TF3
Appearance						
Image Sensor	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	Two 1/3" 4MP CMOS	Two 1/3" 4MP CMOS
Focal Length	3.6mm	6mm	2.8mm	3.6mm	2.8mm	3.6mm
Max. Resolution	2MP (1920 × 1080)	2MP (1920 × 1080)	4MP (2688 × 1520)	4MP (2688 × 1520)	4MP (2688 × 1520)	4MP (2688 × 1520)
Frame Rate	1920×1080@25fps 1920×1080@30fps	1920×1080@25fps 1920×1080@30fps	2688×1520@20fps 2688×1520@20fps	2688×1520@20fps 2688×1520@20fps	2688×1520@20fps 2688×1520@20fps	2688×1520@20fps 2688×1520@20fps
WDR	100db	100db	100db	100db	100db	100db
Lincese Plate Recognition	Supported (Global)	Supported (Global)	Supported (Global)	Supported (Global)	Supported (Global)	Supported (Global)
Video Compression	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG
Detection Mode	Video detection	Video detection	Video detection	Video detection	Video detection	Video detection
Voice Function	Supports Voice Broadcast	Supports Voice Broadcast	Supports Voice Broadcast	Supports Voice Broadcast	Supports Voice Broadcast	Supports Voice Broadcast
Interface	2× 100M Ethernet (RJ-45), 1 RS485	2× 100M Ethernet (RJ-45), 1 RS485	2× 100M Ethernet (RJ-45), 1 RS485	2× 100M Ethernet (RJ-45), 1 RS485	2× 100M Ethernet (RJ-45), 1 RS485	2× 100M Ethernet (RJ-45), 1 RS485
Ingress Protection	IP54	IP54	IP54	IP54	IP54	IP54
Indicator Light	7 colors	7 colors	7 colors	7 colors	7 colors	7 colors
Parking Violation detection	Supports cross-line parking detection, unauthorized vehicle occupancy detection, and small car occupying large parking space detection	Supports cross-line parking detection, unauthorized vehicle occupancy detection, and small car occupying large parking space detection	Supports cross-line parking detection, unauthorized vehicle occupancy detection, and small car occupying large parking space detection	Supports cross-line parking detection, unauthorized vehicle occupancy detection, and small car occupying large parking space detection	Supports cross-line parking detection, unauthorized vehicle occupancy detection, and small car occupying large parking space detection	Supports cross-line parking detection, unauthorized vehicle occupancy detection, and small car occupying large parking space 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
Monitor Range	2	2	3	3	6	6
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)	-20° C~+50° C (-4 °F~+122 °F)	-20° C~+50° C (-4 °F~+122 °F)	-20° C~+50° C (-4 °F~+122 °F)
Power	DC 12-48V Supports PvE power supply	DC 12-48V Supports PvE power supply	DC 12-48V Supports PvE power supply	DC 12-48V Supports PvE power supply	DC 12-48V Supports PvE power supply	DC 12-48V Supports PvE power supply



# INTELLIGENT TRANSPORTATION CAMERAS

## Parking Spot Detectors

### Indoor Guidance Camera (PoE)

Model	ITC214-PH5B-F3-POE	ITC214-PH5B-F6-POE	ITC414-PH5B-F2-POE	ITC414-PH5B-F3-POE	ITC414-PH5B-TF2-POE	ITC414-PH5B-TF3-POE
Appearance						
Image Sensor	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	Two 1/3" 4MP CMOS	Two 1/3" 4MP CMOS
Focal Length	3.6mm	6mm	2.8mm	3.6mm	2.8mm	3.6mm
Max. Resolution	2MP (1920 × 1080)	2MP (1920 × 1080)	4MP (2688 × 1520)	4MP (2688 × 1520)	4MP (2688 × 1520)	4MP (2688 × 1520)
Frame Rate	1920×1080@25fps 1920×1080@30fps	1920×1080@25fps 1920×1080@30fps	2688×1520@20fps 2688×1520@20fps	2688×1520@20fps 2688×1520@20fps	2688×1520@20fps 2688×1520@20fps	2688×1520@20fps 2688×1520@20fps
WDR	100db	100db	100db	100db	100db	100db
Lincese Plate Recognition	Supported (Global)	Supported (Global)	Supported (Global)	Supported (Global)	Supported (Global)	Supported (Global)
Video Compression	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG	H.264, H.265, MJPEG
Detection Mode	Video detection	Video detection	Video detection	Video detection	Video detection	Video detection
Voice Function	Supports Voice Broadcast	Supports Voice Broadcast	Supports Voice Broadcast	Supports Voice Broadcast	Supports Voice Broadcast	Supports Voice Broadcast
Interface	1×100M Ethernet (RJ-45), 1 RS485	1×100M Ethernet (RJ-45), 1 RS485	1×100M Ethernet (RJ-45), 1 RS485	1×100M Ethernet (RJ-45), 1 RS485	1×100M Ethernet (RJ-45), 1 RS485	1×100M Ethernet (RJ-45), 1 RS485
Ingress Protection	IP54	IP54	IP54	IP54	IP54	IP54
Indicator Light	7 colors	7 colors	7 colors	7 colors	7 colors	7 colors
Parking Violation detection	Supports cross-line parking detection, unauthorized vehicle occupancy detection, and small car occupying large parking space detection	Supports cross-line parking detection, unauthorized vehicle occupancy detection, and small car occupying large parking space detection	Supports cross-line parking detection, unauthorized vehicle occupancy detection, and small car occupying large parking space detection	Supports cross-line parking detection, unauthorized vehicle occupancy detection, and small car occupying large parking space detection	Supports cross-line parking detection, unauthorized vehicle occupancy detection, and small car occupying large parking space detection	Supports cross-line parking detection, unauthorized vehicle occupancy detection, and small car occupying large parking space 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
Monitor Range	2	2	3	3	6	6
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)	-20° C~+50° C (-4 °F~+122 °F)	-20° C~+50° C (-4 °F~+122 °F)	-20° C~+50° C (-4 °F~+122 °F)
Power	PoE; DC12V	PoE; DC12V	PoE; DC12V	PoE; DC12V	PoE; DC12V	PoE; DC12V

# INTELLIGENT TRANSPORTATION CAMERAS

ITC4

## Outdoor Guidance Camera

Model	ITC439-PW1H-Z	ITC439-PW1H-Z1050
Appearance		
Image Sensor	1/1.8" CMOS	1/1.8" CMOS
Max. Resolution	4MP (2688 × 1520)	4MP (2688 × 1520)
Frame Rate	2688 × 1520@25 fps 2688 × 1520@30 fps	2688 × 1520@25 fps 2688 × 1520@30 fps
WDR	96 db	96 db
Electronic Shutter Speed	1/25~1/10000s	1/25~1/10000s
Lens	4.38mm-9.33mm	11mm-46.5mm
FOV	H: 114.6° (W)–48.3° (T) V: 59.0° (W)–27.1° (T) D: 141.6° (W)–55.5° (T)	H: 40.55° (W)–9.33° (T) V: 22.7° (W)–5.3° (T) D: 46.6° (W)–10.63° (T)
Min. Illumination	0.002 lx (built-in illuminator on)	0.002 lx (built-in illuminator on)
Detection Mode	Video trigger	Video trigger
Video Compression	H.264M/H.264H/H.265/MJPEG	H.264M/H.264H/H.265/MJPEG
Lamp	Built-in white light	Built-in white light
Ingress Protection	IP67	IP67
Interface	1×100/1000M Ethernet, 2 RS485, 3/3 channel Alarm In/Out	1×100/1000M Ethernet, 2 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)
Memory Slot	1 built-in TF card slot, Max. 128G	1 built-in TF card slot, Max. 128G
Power	AC 24V, DC12V, PoE+ (802.3at)	AC 24V, DC12V, PoE+ (802.3at)
Event	Violation Detection, Residual Detection	Violation Detection, Residual Detection
Remaining Stats	Max. 50 spaces	Max. 50 spaces
Statistics Mode	Area monitoring, and parking space monitoring mode	Area monitoring, and parking space monitoring mode
Parking Space Attribute	Configure the attributes of large and small spaces	Configure the attributes of large and small spaces

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

Model	IS4204-2GT-120	IS4207-4GT-120	IS4410-6GT-120	IS4210-8GT-120	IS4420-16GT-240
Appearance	 <b>PoE2.0</b>	 <b>PoE2.0</b>	 <b>PoE2.0</b>	 <b>PoE2.0</b>	 <b>PoE2.0</b>
Fast/Gigabit Ethernet	2GE PoE	4GE PoE+1GE	6GE PoE	8GE PoE	16GE PoE
SFP Slots	2GE SFP	2GE SFP	4 GE SFP	2GE SFP	4GE SFP
PoE Standard	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++(802.3bt)	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++(802.3bt)	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++(802.3bt)	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++(802.3bt)	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++(802.3bt)
PoE Budget	120W	120W	120W	120W	240W
PoE Watchdog	Supported	Supported	Supported	Supported	Supported
Long Distance PoE Transmission	Yes (250 meters)	Yes (250 meters)	Yes (250 meters)	Yes (250 meters)	Yes (250 meters)
Intelligent PoE Management	Supported	Supported	Supported	Supported	Supported
Switching Capacity	14Gbps	14Gbps	28Gbps	28Gbps	56Gbps
Packet Forwarding Rate	5.95Mpps	10.42Mpps	14.88Mpps	14.88Mpps	29.76Mpps
Packet Buffer Memory	4.1Mb	4.1Mb	4Mb	4Mb	4.1Mb
MAC Table Size	8K	8K	8K	8K	8K
VLAN	Supported	Supported	Supported	Supported	Supported
Link Aggregation	Supported	Supported	Supported	Supported	Supported
Flow Control	Supported	Supported	Supported	Supported	Supported
Spanning Tree	Supported	Supported	Supported	Supported	Supported
Management	Web, SNMP, CLI	Web, SNMP, CLI	Web, SNMP, CLI	Web, SNMP, CLI	Web, SNMP, CLI
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
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)
Dimensions (W×D×H)	94.4mm×53.5mm ×135mm (3.72"×2.11"×5.31")	94.4mm×53.5mm×135mm (3.72"×2.11"×5.31")	125mm×53.5mm×175.0mm (4.9"×2.1"×6.9")	125mm×53.5mm×175.0mm (4.9"×2.1"×6.9")	125.4 mm×75.0 mm×175.0 mm (4.9"×3.0"×6.9")






## PoE Switches

	ePoE Switch			All-Gigabit PoE Switch (L2 Managed)		
Model	LR2110-8ET-120	LR2218-16ET-240	LR2226-24ET-360	PFS4210-8GT-150	S4210-8GT-110	PFS4420-16GT-240
Appearance						
Fast/Gigabit Ethernet	8FE PoE+1GE	16FE PoE+2GE (Combo)	24FE PoE+2GE (Combo)	8GE PoE	8GE PoE	16GE PoE
SFP Slots	1GE SFP	2GE SFP (Combo)	2GE SFP (Combo)	2GE SFP	2GE SFP	4GE SFP
PoE Standard	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 (802.3af), PoE+ (802.3at)	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++ (802.3bt)	PoE (802.3af), PoE+ (802.3at)
PoE Budget	120W	240W	360W	150W	110W	240W
PoE Watchdog	--	--	--	--	Supported	--
Long Distance PoE Transmission	Yes (800 meters)	Yes (800 meters)	Yes (800 meters)	--	Supported	--
Intelligent PoE Management	--	--	--	--	Supported	--
Switching Capacity	8.8Gbps	8.8Gbps	8.8Gbps	20Gbps	20Gbps	40Gbps
Packet Forwarding Rate	4.17Mpps	5.36Mpps	6.55Mpps	14.88Mpps	14.88Mpps	29.76Mpps
Packet Buffer Memory	2.75Mb	2.75Mb	2.75Mb	4Mb	4.1 Mb	4.1Mb
MAC Table Size	4K	4K	4K	8K	8K	8K
VLAN	--	Supported	Supported	Supported	Supported	Supported
Link Aggregation	--	Supported	Supported	Supported	Supported	Supported
Flow Control	Supported	Supported	Supported	Supported	Supported	Supported
Spanning Tree	--	Supported	Supported	Supported	Supported	Supported
Management	--	Web, SNMP	Web, SNMP	Web, SNMP	Web, SNMP	Web, SNMP
Lightning Protection	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV	Common Mode 2KV Differential Mode 1KV	Common Mode 2KV Differential Mode 1KV	Common Mode 2KV
Working Temperature	-30°C ~+65°C (-22°F ~+149°F)	-10°C ~+55°C (14°F ~+131°F)	-10°C ~+55°C (14°F ~+131°F)	0°C ~+45°C (32°F ~+113°F)	-10°C ~ +55°C (14°F ~+131°F)	0°C ~+45°C (32°F ~+113°F)
Dimensions (WxDxH)	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")	340mm×200mm×44mm (13.4"×7.9"×1.7")	240mm×28mm×103mm (9.4"×1.1"×4.0")	440mm×330mm×44mm (17.3"×13.0"×1.7")



# TRANSMISSION

## PoE Switches

	All-Gigabit PoE Switch (L2 Managed)			All-Gigabit PoE Switch (L3 Managed)	
Model	S4220-16GT-190/240/360	S4228-24GT-190/240/360	PFS4428-24GT-370	AS5500-24GT4XF-370	AS5500-48GT4XF-600
Appearance	 <b>PoE2.0</b>	 <b>PoE2.0</b>			 <b>PoE2.0</b>
Fast/Gigabit Ethernet	16GE PoE+2GE	24GE PoE+2GE	24GE PoE	24GE PoE	48GE PoE
SFP Slots	2GE SFP	2GE SFP	4GE SFP	4x10G SFP+	4x10G SFP+
PoE Standard	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++ (802.3bt)	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++ (802.3bt)	PoE (802.3af), PoE+ (802.3at)	PoE (802.3af), PoE+ (802.3at)	PoE (802.3af), PoE+ (802.3at)
PoE Budget	190W/240W/360W	190W/240W/360W	370W	370W	600W
PoE Watchdog	Supported	Supported	--	--	--
Long Distance PoE Transmission	Supported	Supported	--	--	--
Intelligent PoE Management	Supported	Supported	--	--	--
Switching Capacity	56Gbps	56Gbps	56Gbps	128Gbps	176Gbps
Packet Forwarding Rate	29.76Mpps	41.66Mpps	41.66Mpps	95Mpps	131Mpps
Packet Buffer Memory	4.1 Mb	4.1Mb	4.1Mb	1.5Mb	3Mb
MAC Table Size	8K	8K	8K	16K	16K
VLAN	Supported	Supported	Supported	Supported	Supported
Link Aggregation	Supported	Supported	Supported	Supported	Supported
Flow Control	Supported	Supported	Supported	Supported	Supported
Spanning Tree	Supported	Supported	Supported	Supported	Supported
Management	Web, SNMP	Web, SNMP	Web, SNMP	Web, CLI, SNMP	Web, CLI, SNMP
Lightning Protection	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV	Common Mode 2KV	Common Mode 1KV Differential Mode 0.5KV	Common Mode 1KV Differential Mode 0.5KV
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)	-5°C~+45°C (23 °F to +113 °F)	-5°C~+45°C (23 °F to +113 °F)
Dimensions (WxDxH)	440mm×300mm×44mm (17.3"×11.8"×1.7")	440mm×300mm×44mm (17.3"×11.8"×1.7")	440mm×330mm×44mm (17.3"×13.0"×1.7")	440mm×330mm×44mm (17.3"×13.0"×1.7")	440mm×330mm×44mm (17.3"×13.0"×1.7")

## Aggregation Switch





### L2+ Switch

Model	AS4300-8GT2GF	AS4300-16GT4GF	AS4300-24GT4GF	AS4300-48GT4GF	S5428-24GT	S5936-24GF8GT4XF
Appearance						
Fast/Gigabit Ethernet	8GE	16GE	24GE	48GE	24GE	8GE
SFP Slots	2GE SFP	4GE SFP	4GE SFP	4GE SFP	4x10G SFP+	24GE SFP+4x10G SFP+
Recommended Access Cameras	30	50	80	100	200	200
Switching Capacity	20Gbps	40Gbps	56Gbps	104Gbps	128Gbps	221Gbps
Packet Forwarding Rate	15Mpps	30Mpps	41.7Mpps	77.4Mpps	96Mpps	107Mpps
VLAN	Supported	Supported	Supported	Supported	Supported	Supported
Link Aggregation	Supported	Supported	Supported	Supported	Supported	Supported
Stacking	Supported	Supported	Supported	Supported	--	--
MAC Table	16K	8K	8K	8K	32K	32K
IPV4 Routing Table	1K	1K	1K	1K	4K	4K
IGMP Snooping	Supported	Supported	Supported	Supported	Supported	Supported
Static IP Routing	Supported	Supported	Supported	Supported	Supported	Supported
Dynamic Routing	RIP & OSPF	--	--	--	--	--
VRRP	--	--	--	--	--	--
Management	Web, CLI, SNMP	Web, CLI, SNMP	Web, CLI, SNMP	Web, CLI, SNMP	WEB, CLI, SNMP	Web, CLI, SNMP
Working Temperature	-5 °C~+45 °C (+23 °F~+113 °F)	-5 °C~+45 °C (+23 °F~+113 °F)"	-5 °C~+45 °C (+23 °F~+113 °F)	-5 °C~+45 °C (+23 °F~+113 °F)	-20°C~+55°C (-4°F~+131°F)	-20°C~+55°C (-4°F~+131°F)
Power Supply	Single AC	Single AC	Single AC	Single AC	Single AC	Single AC
Dimensions (WxDxH)	266mmx161mmx43.6mm (10.47"x6.34"x1.72")	330mmx230mmx44mm (12.99"x9.06"x1.73")	440mmx160mmx44mm (17.32"x6.30"x1.73")	440mmx230mmx44mm (17.32"x9.06"x1.73")	440mmx300mmx44mm (17.3"x11.8"x1.7")	440mmx285mmx44mm (17.3"x11.2"x1.7")

# TRANSMISSION

## Aggregation Switch

### L3 Switch

Model	AS5500-24GT4XF	S5500-48GT4XF-E	S5500-24GF4XF-E	AS5500-48GF4XF
Appearance				
Fast/Gigabit Ethernet	24GE	48GE	8GE(Combo)	2GE(Combo)
SFP Slots	4x10G SFP+	4x10G SFP+	16GE SFP+8GE SFP (Combo) +4x10G SFP+	46GE SFP+2GE SFP (Combo) +4x10G SFP+
Recommended Access Cameras	250	250	250	250
Switching Capacity	128Gbps	336Gbps	336Gbps	176Gbps
Packet Forwarding Rate	96Mpps	132Mpps	96Mpps	132Mpps
VLAN	Supported	Supported	Supported	Supported
Link Aggregation	Supported	Supported	Supported	Supported
Stacking	Supported	Supported	Supported	Supported
MAC Table	16K	16K	16K	16K
IPV4 Routing Table	1K	1K	1K	1K
IGMP Snooping	Supported	Supported	Supported	Supported
Static IP Routing	Supported	Supported	Supported	Supported
Dynamic Routing	OSPF, RIP	OSPF, RIP	OSPF, RIP	OSPF, RIP
VRRP	--	--	--	--
Management	Web, CLI, SNMP	Web, CLI, SNMP	Web, CLI, SNMP	Web, CLI, SNMP
Working Temperature	0°C~+45°C (32°F~+113°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)
Power Supply	Single AC	Single AC	Single AC	Dual AC
Dimensions (WxDxH)	440mm×360mm×43.6mm (17.3"×14.2"×1.7")	440mm×360mm×43.6mm (17.3"×14.2"×1.7")	440mm×360mm×43.6mm (17.3"×14.2"×1.7")	440mm×360mm×43.6mm (17.3"×14.2"×1.7")




## Aggregation Switch

### Enhanced L3 Switch

Model	AS5600-24GT4XF	S5600-48GT4XF	AS5600-24GF4XF	AS5600-48GF4XF	AS6600-24XF2QF	S6500-48XF2QF
Appearance						
Fast/Gigabit Ethernet	24GE	48GE	8GE(Combo)	--	--	--
SFP Slots	4x10G SFP+	4x10G SFP+	16GE SFP+8GE SFP (Combo) +4x10G SFP+	48GE SFP+4x10G SFP+	24x10G SFP+ & 2x40G QSFP	48x10G SFP+ & 2x40G QSFP
Recommended Access Cameras	350	350	350	350	450	450
Switching Capacity	128Gbps	598Gbps	128Gbps	176Gbps	980Gbps	2560Gbps
Packet Forwarding Rate	96Mpps	144Mpps	96Mpps	132Mpps	705Mpps	1080Mpps
VLAN	Supported	Supported	Supported	Supported	Supported	Supported
Link Aggregation	Supported	Supported	Supported	Supported	Supported	Supported
Stacking	Supported	Supported	Supported	Supported	Supported	Supported
MAC Table	16K	16K	16K	16K	128K	128K
IPV4 Routing Table	12K	12K	12K	12K	64K	64K
IGMP Snooping	Supported	Supported	Supported	Supported	Supported	Supported
Static IP Routing	Supported	Supported	Supported	Supported	Supported	Supported
Dynamic Routing	OSPF, RIP, BGP, IS-IS	OSPF, RIP, BGP, IS-IS	OSPF, RIP, BGP, IS-IS	OSPF, RIP, BGP, IS-IS	OSPF, RIP, BGP, IS-IS	OSPF, RIP, BGP, IS-IS
VRRP	Supported	Supported	Supported	Supported	Supported	Supported
Management	Web, CLI, SNMP	Web, CLI, SNMP	Web, CLI, SNMP	Web, CLI, SNMP	Web, CLI, SNMP	Web, CLI, SNMP
Working Temperature	0°C~+45°C (32°F~+113°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)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)
Power Supply	Dual AC	Dual AC	Dual AC	Dual AC	Dual AC	Dual AC
Dimensions (W×D×H)	440mm×360mm×43.6mm (17.3"×14.2"×1.7")	440mm×360mm×43.6mm (17.3"×14.2"×1.7")	440mm×360mm×43.6mm (17.3"×14.2"×1.7")	440mm×360mm×43.6mm (17.3"×14.2"×1.7")	440mm×360mm×43.6mm (17.3"×14.2"×1.7")	440mm×360mm×43.6mm (17.3"×14.2"×1.7")

# TRANSMISSION



Core Switch			
	Core Switch		
Model	S7803	S7806	S8610
Appearance			
Switching Capacity	38.4Tbps	76.8Tbps	256 Tbps
Packet Forwarding Rate	7200Mpps	8640Mpps	8400 Mpps
Number of Service Slots	3	6	10
Recommended Access Cameras	Single main processing unit: 500 Dual main processing unit: 800	Single main processing unit: 700 Dual main processing unit: 1400	3000
Redundancy Design	Redundancy of power supply and main processing unit	Redundancy of power supply and main processing unit	Redundancy of power sources and main processing unit
Layer 2 Features	VLAN/STP/RSTP/MSTP/CoS/Flow Control/Link Aggregation/etc.	VLAN/STP/RSTP/MSTP/CoS/Flow Control/Link Aggregation/etc.	VLAN/STP/RSTP/MSTP/CoS/Flow Control/Link Aggregation/etc.
IPv4 Routing	Supported	Supported	Supported
IPv6 Routing	Supported	Supported	Supported
Multicast	Supported	Supported	Supported
ACL	Supported	Supported	Supported
QoS	Supported	Supported	Supported
Security Mechanism	FTP/TFTP/SNMP/RMON	FTP/TFTP/SNMP/RMON	FTP/TFTP/SNMP/RMON
Reliability	CPU protection/VRRP/RPR/DLCP	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)	0°C~+45°C (32°F~+113°F)
Dimensions (WxDxH)	436mm×420mm×216mm (17.2"×16.5"×8.5")	436mm×420mm×575mm (17.2"×16.5"×22.6")	440mm×660mm×620mm (17.3"×26.0"×24.4")





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	Displays the detailed information of switches, such as name, mode, SN, IP, MAC and status
Alarm Message	Supports IP conflict alarm, switch status alarm, terminal status alarm, loopback alarm, and 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



## Cybersecurity

### VSAG (Video Security Access Gateway)

Model	VSAG200	VSAG500	VSAG200-E	VSAG1000
Appearance				
Network Layer Throughput	180 Mbps	200 Mbps	3 Gbps	18 Gbps
IPSec Performance	50 Mbps	80 Mbps	100 Mbps	500 Mbps
Default Port	5GE copper	5GE copper	5GE copper	6GE copper ports+2x10GE SFP+ ports
Firewall	Supported	Supported	Supported	Supported
IPS/AV	--	--	Supported	Supported
Centralized Management	Supported	Supported	Supported	Supported


## Cybersecurity

### SACG (Security Access Control Gateway)

Model	SACG200-S	SACG1000	SACG2000
Appearance			
Performance	200-channel 4M stream	500-channel 4M stream	1,500-channel 4M stream
High Reliability	Hot standby and redundancy design of key components such as VRRP, power supply, and fan.		
Security Access Control	Authenticate access devices through IP, MAC, allowlist, and 802.1X protocol.		
Protocol Filtering	Supports standard transfer protocols ONVIF, SIP, and most of the private protocols of mainstream video manufacturers		
Network Adaptability	Inline and bypass traffic direction deployment modes; static routing, RIP v1/2, OSPF, BGP, and policy routing.		
Management	CLI, Web, SNMP	CLI, Web, SNMP	CLI, Web, SNMP

## Cybersecurity

### VPS (Video Protection System)

Model	VPS100
Appearance	
Number of Persons Managed	10
Network Port	6x Gigabit Ethernet copper ports
High Reliability	Dual power and fan
Encrypt video records	Supported
Approval workflow for video export	Supported
Behavior Audit	Supported
Video tracking	Watermark




# TRANSMISSION

## Outdoor Wireless Transmission Device

	5G Wireless CPE			5G Wireless AP	2.4G Wireless AP for Elevator
Model	PFM881E	WBC5-45AC-03P	WBC5-30AC-05P	PFM880E	WB2-60N-I
Appearance					
Fast/Gigabit Ethernet	1GE	1GE PoE+1FE	1GE PoE+1FE	1GE	2FE
Wireless Standard	IEEE802.11 a/n/ac	IEEE802.11 a/n/ac	IEEE802.11 a/n/ac	IEEE802.11a/n/ac	IEEE802.11b/g/n
Working Frequency	5GHz	2.4G&5GHz	2.4G&5GHz	5GHz	2.4GHz
Wireless Speed	867Mbps	867 Mbps	867 Mbps	867Mbps	300Mbps
Transmission Distance	3Km	3Km	5Km	3Km	1Km
Polarization	Dual Linear: Horizontal 17° Vertical 17°	Dual linear: Horizontal 45° Vertical 20°	Dual linear: Horizontal 30° Vertical 20°	Dual Linear: Horizontal 90° Vertical 9°	Dual Linear: Horizontal 60° Vertical 60°
Ingress Protection	IP66	IP65	IP65	IP66	IP65
Working Temperature	-30°C~+70°C (-22°F~+158°F)	-30 °C to +65 °C (-22 °F to +149 °F)	-30 °C to +65 °C (-22 °F to +149 °F)	-30°C~+70°C (-22°F~+158°F)	-30°C~+70°C (-22°F~+158°F)
Dimension (LxDxH)	200mm×200mm×50mm (10.6"×3.3"×2.0")	268mm×82mm×35mm (10.55"×3.23"×1.38")	268mm×82mm×35mm (10.55"×.23"×1.38")	265mm×265mm×87.5mm (Device) (10.4"×10.4"×3.4") 450mm×166mm×60mm (Antenna) (17.7"×6.5"×2.4")	168mm×88mm×57.6mm (6.61"×3.46"×2.27")
Power	PoE+ (802.3at)	PoE+ (802.3at)	PoE+ (802.3at)	PoE+ (802.3at)	Passive PoE

## Outdoor Wireless Transmission Device

	4G Router
Model	WM4720-OW
Appearance	
LAN Port	3GE (LAN/WAN switching)
WAN Port	3GE (LAN/WAN switching)
Wi-Fi	802.11n/ac/ax
Network Mode	Southeast Asia version (SEA): B1/B3/B5/B8/ B34/B38/B39/ B40/B41; Oceania and North American version (US): B1/B2/B3/B4/B5/B7/B8/B12/B17/ B28/B38/B40/B66; European version (EU): B1/B3/B5/B7/B8/B20/B28/B38/B40/ B41
Antenna	Cellular: 2x standard SMA antenna ports (characteristic impedance 50 Ω) Wi-Fi: 2x standard SMA antenna ports (characteristic impedance 50 Ω)
WAN Connection Modes	Static IP, DHCP, PPPoE and 4G
SIM/UIM Card Port	1.8V/3V SIM card
Encryption	WPA, WPA2 and WPA3
Working Temperature	-40 °C~+75 °C (-40 °F~+167 °F)
Dimension	207mm×135mm×28mm (8.15"× 5.31"×1.10")
Power	DC 12V/1.5A

TRANSMISSION

## Accessories

### SFP Module

Model	GSFP-850-MMF	GSFP-1310-20-SMF	GSFP-1310T-20-SMF	GSFP-1310R-20-SMF	TSFP-850-MMF	TSFP-1270R-20-SMF	TSFP-1270T-20-SMF
Appearance							
Data Rate	1.25Gbps	1.25Gbps	1.25Gbps	1.25Gbps	10Gbps	10Gbps	10Gbps
Interface	LC	LC	LC	LC	LC	LC	LC
Port	Dual fiber port	Dual fiber port	Single fiber port	Single fiber port	Dual fiber port	Single fiber port	Single fiber port
Transmission Distance	500m	20km	20km	20km	300m	20km	20km
Transmission Medium	Multi-mode	Single-mode	Single-mode	Single-mode	Multi-mode	Single-mode	Single-mode
Wavelength	850nm	1310nm/1310nm	1310nm/1550nm	1550/1310nmnm	850nm	1330nm/1270nm	1270nm/1330nm
Sensitivity	≤-23dBm	≤-23dBm	≤-23dBm	≤-23dBm	-11dBm	-14.5dBm	-14.5dBm
Output Power	-9.5~-3dBm	-9~-2dBm	-9~-2dBm	-9~-2dBm	-6.5~0.5dBm	-3~-2dBm	-3~-2dBm

## DIN Rail Power Supply

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 ")

# DISPLAY & CONTROL



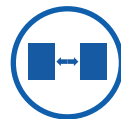
# Display Device

Adopting industrial design, Dahua's display devices offer a variety of products to choose from, including monitor, video wall (LCD and LED) and control products. 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 24/7 operation
- FHD/Ultra-HD resolution
- Rich interface
- Realistic and immersive visual experience



## LCD Video Wall

- Industrial level LCD panel from 46"-65", for continuous 24/7 operation
- Anti-glare panel, vivid image quality
- Rich interfaces
- Extreme narrow bezel; virtually seamless effect
- Fast stacking installation; two maintenance modes (front, rear)






## Indoor Fine Pitch Series LED Display

- Seamless splicing for any screen size
- High color gamut (12-16 bits) brings excellent visual experience
- Two maintenance modes (front, rear) for convenient installation



# DISPLAY & CONTROL

## Monitor

Model	LM55-S400	LM43-S400	LM43-S200
Appearance			
Screen Size	55" (16:9)	43" (16:9)	43" (16:9)
Resolution	3840x2160	3840x2160	1920x1080
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	16.7M (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)	1 HDMI 2.0, 1 VGA, 1 USB multimedia, 1 Audio, 1 J45 (RS232), 1 LAN
Output	1 RJ45 (RS232), 2 Speakers	1 RJ45 (RS232), 2 Speakers	1 Headphone Jack, 2 Speakers
Control	RS232, Infrared Remote	RS232, Infrared Remote	Physical Button, Infrared Remote
Working Temperature	0°C~40° (+32°F~+104°F)	0°C~40°C (+32°F~+104°F)	0°C~40°C (+32°F~+104°F)
Working Humidity	10%~85%	10%~85%	20%~85%
Power & Consumption	AC110~240V, 120W	AC110~240V, 70W	AC100~240V (+/-10%), 50/60 Hz, 1.5A
Bezel Width	8mm (U/L/R/B)	8mm (U/L/R/B)	13mm (U/L/R/B)
VESA	400x400mm	400x400mm	400x200mm
Dimensions	1227.2x699.6x65.0mm (48.3"x27.5"x2.6")	960.7x550.7x65.0mm (37.8"x21.7"x2.6")	969.9x558.3x84.8mm (38.2"x22.0"x3.3")
Weight	25.2kg (55.6lb)	16.6kg (36.6lb)	10.4kg (22.9lb)

# DISPLAY & CONTROL



## LCD Video Wall

Model	LS650KCM-EF	LS550UDM-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)
Panel Type	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 (T/L), 1.2mm (B/R)	1.3mm (T/L), 0.44mm (B/R)	2.3mm (T/L), 1.2mm (B/R)	2.3mm (T/L), 1.2mm (B/R)	2.3mm (T/L), 1.2mm (B/R)
Pixel Density	68dpi	40dpi	40dpi	46dpi	48dpi
Brightness	500cd/m <sup>2</sup>	500cd/m <sup>2</sup>	500cd/m <sup>2</sup>	500cd/m <sup>2</sup>	500cd/m <sup>2</sup>
Contrast Ratio	1200:1	1000:1	1200:1	1200:1	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 (G-to-G)	8ms	8ms	8ms	8ms	8ms
Color Depth	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 in, 1 OPS, 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	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	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	1 CVBS, 1 RS232, 2 HDMI, 1 VGA, 1 Audio out
Control Mode	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~+40°C (+32°F~+104°F)	0°C~+40°C (+32°F~+104°F)	0°C~+40°C (+32°F~+104°F)	0°C~+40°C (+32°F~+104°F)
Working Humidity	10~80%	10~90%	10~80%	10~80%	10~80%
Power & Consumption	AC100V~AC240V, 130W	AC100V~AC240V, 145W	AC100V~AC240V, 175W	AC100V~AC240V, 135W	AC100V~AC240V, 130W
Dimensions	1432.6mm×807.6mm×127.1mm (56.4"×31.8"×5.0")	1212.2mm×683.0mm×117.7mm (47.7"×26.9"×4.6")	1213.7mm×684.5mm×121.8mm (47.8"×26.9"×4.8")	1078.4mm×608.4mm×120.8mm (42.5"×24"×4.8")	1022mm×576.6mm×121.8mm (40.2"×22.7"×4.8")
Installation Mode	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

## Indoor Fine Pitch Series LED Display

Model	DHI-PHSIA1.5-LS	DHI-PHSIA1.2-LS	Model	DHI-PHSIA1.2-CH	DHI-PHSIA0.9-CH
Appearance			Appearance		
Pixel Pitch	1.5625mm	1.25mm	Pixel Pitch	1.25mm	0.9375mm
Pixel Type	1R1G1B	1R1G1B	Pixel Type	1R1G1B	1R1G1B
LED Type	SMD1010/SMD1212	SMD1010	LED Type	COB 3 IN 1	COB 3 IN 1
Brightness	600 cd/m <sup>2</sup>	600 cd/m <sup>2</sup>	Brightness	600 cd/m <sup>2</sup>	600 cd/m <sup>2</sup>
Color Temperature	4000K~9500K (adjustable)	4000K~9500K (adjustable)	Brightness Control	Automatic/Manual	Automatic/Manual
Viewing Angle	160°/140°	160°/140°	Color Temperature	6500K	6500K
Pixel Density	409600 dots/m <sup>2</sup>	640000 dots/m <sup>2</sup>	Viewing Angle	160°/160°	160°/160°
Module Size (W×H)	300×168.75 mm	300×168.75 mm	Pixel Density	640000 dots/m <sup>2</sup>	1137777dots/m <sup>2</sup>
Cabinet Resolution (W×H)	384×216 dots	480×270 dots	Module Size (W×H)	150mm×112.5mm	150mm×112.5mm
Cabinet Size (W×H×D)	600×337.5×45 mm	600×337.5×45 mm	Cabinet Resolution (W×H)	480×270 dots	640×360 dots
Cabinet Weight	6.084 kg	6.084 kg	Cabinet Size (W×H×D)	600×337.5×39mm	600×337.5×39 mm
Cabinet Area	0.2025 m <sup>2</sup>	0.2025 m <sup>2</sup>	Cabinet Weight	5.6 kg	5.6 kg
Cabinet Material	Die-cast aluminum	Die-cast aluminum	Cabinet Area	0.2025m <sup>2</sup>	0.2025m <sup>2</sup>
Cabinet Aspect Ratio	16:9	16:9	Cabinet Material	Die-cast aluminum	Die-cast aluminum
Ingress Protection (rear/front)	IP30/IP30	IP30/IP30	Cabinet Aspect Ratio	16:9	16:9
Operating Temperature	-10°C~+55°C/10%~80%RH	-10°C~+55°C/10%~80%RH	Ingress Protection (front/rear)	IP54/IP54	IP54/IP54
Storage Temperature	-25°C~+60°C/10%~80%RH	-25°C~+60°C/10%~80%RH	Color Processing Depth	13bits	12bits
Color Processing Depth	12bits	13bits	Contrast	20000:1	20000:1
Brightness Uniformity	≥97%	≥97%	Frame Rate	50/60 Hz	50/60 Hz
Color Uniformity	(x,y)±0.003	(x,y)±0.003	Refresh Rate	1920-3840 Hz (adjustable)	1920-2880 Hz (adjustable)
Contrast	4000:1	4000:1	Input Voltage	110-240V AC	110-240V AC
Frame Rate	50/60 Hz	50/60 Hz	Input Power (max)	310W/m <sup>2</sup>	310W/m <sup>2</sup>
Refresh Rate	1920-3840 Hz (adjustable)	1920-3840 Hz (adjustable)	Input Power (avg)	100 W/m <sup>2</sup>	100 W/m <sup>2</sup>
Input Voltage	AC100~240V (+/-10%), 50/60 Hz	AC100~240V (+/-10%), 50/60 Hz	Lifespan	100,000 Hours	100,000 Hours
Input Power (max)	500W/m <sup>2</sup>	500W/m <sup>2</sup>	Installation	Wall Mount/Floor Mount	Wall Mount/Floor Mount
Input Power (avg)	200 W/m <sup>2</sup>	200 W/m <sup>2</sup>	Maintenance Mode	Front Maintenance	Front Maintenance
Installation Mode	Wall Mount/Floor Mount/Arc	Wall Mount/Floor Mount/Arc	Communication Connection	CAT5 Cable ( L≤140m ), multi-mode fiber (L≤500m ), single mode fiber (L≤20km)	CAT5 Cable ( L≤140m ), multi-mode fiber (L≤500m ), single mode fiber (L≤20km)
Maintenance Mode	Front Maintenance	Front Maintenance	Maintenance Mode	Front Maintenance	Front Maintenance
Driving Method	Constant Current, 1/45 Scanning	Constant Current, 1/54 Scanning	Driving Method	Constant Current, 1/45 Scanning	Constant Current, 1/54 Scanning
Communication Connection	CAT5 Cable ( L≤140m ), multi-mode fiber (L≤500m ), single mode fiber (L≤20km)	CAT5 Cable ( L≤140m ), multi-mode fiber (L≤500m ), single mode fiber (L≤20km)	Communication Connection	CAT5 Cable ( L≤140m ), multi-mode fiber (L≤500m ), single mode fiber (L≤20km)	CAT5 Cable ( L≤140m ), multi-mode fiber (L≤500m ), single mode fiber (L≤20km)


## 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



### Video Management Platform

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 with converter)	HDMI/DVI (VGA with converter)
Network Video Input	IPC/DVR/NVR, etc.	IPC/DVR/NVR, etc.
Video Output	HDMI (VGA & DVI with converter)	HDMI (VGA & DVI with converter)
Intercom	1/1 3.5mm jack (For intercom, reserved)	1/1 3.5mm jack (For intercom, reserved)
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/Video Platform/Network Keyboard/Pad	WEB/Video Platform/Network Keyboard/Pad
Highlights	8K & H.265 & Smart H.265 decoding; Supports LED solution, fisheye dewarp, and 4K local signal collection	8K & H.265 & Smart H.265 decoding; Supports LED solution, fisheye dewarp, and 4K local signal collection

# DISPLAY & CONTROL

## 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	NVD0905DH-4I-4K	NVD0405DU-2I-8K
Appearance		
Screen Quantity	9 Screens	4 Screens
Splicing Control Modes	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
Max Decoding	3CH@32MP(25fps)/ 9CH@12MP(15fps)/ 12CH@8MP/48CH@1080P/ 108CH@720P/192CH@D1	2CH@32MP(25fps)/ 7CH@12MP(25fps)/ 10CH@8MP/36CH@1080P/ 72CH@720P/144CH@D1
Local Video Input	2CH HDMI, 2CH DVI-I	2CH HDMI
Network Video Input	IPC/DVR/NVR, etc.	IPC/DVR/NVR, etc.
Video Output	HDMI (DVI with converter)	HDMI (DVI with converter)
Audio Out	HDMI (embedded)	1 3.5mm jack
Alarm In/Out	4/4 (30VDC 1A, 125VAC 0.5A, Relay Output)	8/8 (30VDC 1A, 125VAC 0.5A, Relay Output)
Intercom	1 Pair 3.5mm Jack (reserved)	1 Pair 3.5mm Jack (reserved)
Processor	Embedded processor	Embedded processor
Case	1.5U 19"	1U 19"
Ethernet	2 RJ-45 port (10/100/1000M)	1 RJ-45 10M/100M/1000M
USB	1 USB2.0, 1 USB3.0	2 USB 3.0
Power	AC100~240V, 50Hz~60Hz	DC12V/5A
Control Modes	WEB/Video Platform/Network Keyboard/Pad	WEB/Video Platform/Network Keyboard/Pad
Highlights	8K & H.265 & H.265+ decoding, fisheye dewarp, PC signal collection	8K & H.265 & H.265+ decoding, fisheye dewarp, PC signal collection

# DISPLAY & CONTROL

## 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 converter)	HDMI (DVI with converter)	HDMI (DVI with converter)	HDMI (DVI with converter)
Audio Out	HDMI (embedded)	HDMI (embedded)	HDMI (embedded)	HDMI (embedded)
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 (reserved)	1 Pair 3.5mm Jack (reserved)	1 Pair 3.5mm Jack (reserved)	1 Pair 3.5mm Jack (reserved)
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/Pad	WEB/Video Platform/Network Keyboard/Pad	WEB/Video Platform/Network Keyboard/Pad	WEB/Video Platform/Network Keyboard/Pad
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


## Encoding Box

NEB0105HI-4K is an encoding device that can support 1ch DP, 1ch HDMI independent collection interfaces and 4K and H.265 real-time encoding.

- 4K and H.265 real-time encoding
- HDMI and DP collection interfaces
- Redundant power input of two channels: PoE and 12 VDC
- 1-channel HDMI loop output and 1-channel HDMI output



### Encoding box

Model	NEB0105HI-4K
Appearance	
Video Input	1 HDMI1.4 (supports DVI with converter), 1 DP
Video Output	1 HDMI2.0 and 1 HDMI loop output
Audio Input	1 HDMI and DP (embedded), 1 3.5mm jack
Encoding Capacity	4096×2160@24fps, 3840×2160@30fps, 2560×1440@60fps, 1920×1080@60fps, 1280×1024@60fps, 1280×960@60fps, 1280×720@60fps, 1024×768@60fps
Video Encoding Format	H.265/H.264 (default H.264)
Audio Encoding Format	G.711a
Stream Type	Composite stream, video stream
Protocol	RTSP; Private
Network Port	1 RJ45 10/100/1000M self-adaptive ethernet interface
RS232	1 RS232 (DB9)
USB	1 USB 2.0, 1 USB (reserved)
RS485	1 RS485
Highlights	Supports 1ch DP, 1ch HDMI independent collection interfaces; Supports 4K and H.265 real-time encoding





## 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-E	NKB5200
Appearance			
Control Mode(s)	Direct mode, Network mode	Direct mode, Network mode, USB mode	Direct mode, Network 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	1 RJ-45 port (100/1000M), Wi-Fi, RS485
DVR/NVR Protocol	DH2	DH2	DH2
Dome Protocol	DH-SD1/PELCO-D/PELCO-P, etc.	DH-SD1/PELCO-D/PELCO-P, etc.	DH-SD1/PELCO-D/PELCO-P
Max. Users	64 (including "admin")	64 (including "admin")	32 ( All can manage up to 5000 channels via network)
Screen	10.1" TFT LCD touch screen (1280×800)	Monochrome LCD screen (128×64)	10.1" TFT LCD touch screen (1280*800)
Local Split Display Mode	1/4/9/16	--	1/4/9/16
Video Output	4CH HDMI	--	1CH HDMI/VGA
Local Decoding	4CH@4K/16CH@1080P	--	1CH@4K/4CH@1080P
Intercom	1 Pair 3.5mm jack	--	1 Pair (reserved)
Joystick	4-axis (zoom, focus, iris)	3-axis (zoom, focus, iris)	4-axis (zoom, focus, iris)
Main Processor	Dual-core processor	Industrial embedded microprocessor	Six-core processor
Operating System	Embedded LINUX	Embedded LINUX	Android
USB	2 USB3.0, 2 USB2.0	1 USB2.0	1 USB3.0, 2 USB2.0
Power	DC12V, 4A	DC12V/2A	DC12V, 4A;POE
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	All touch screen; 4K & H.265 decoding; Video roaming; Video local display; Scheme preset; Controls NVR, DVR, EVS, Decoder, Matrix, Platform; Local visible control



# ACCESSORIES



# Accessories

Our 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.



## Solar Power









Provides solutions for outdoor monitoring scenarios where wiring is difficult.



## Detector-radar

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

# ACCESSORIES






HFWxxT/T1, HFWxxE-ASE Series			HFWxxH Series		HFWxxE(-Z), HFWxxE(-SE) TPC-BF5xx Series		
							
Model	PFA130-E	PFA130-E+PFA152-E	Model	PFA154	Model	PFA121	PFA121+PFA156
Mount	Junction box	Pole mount	Mount	Pole mount	Mount	Junction box	Pole mount

HFxxE, HFxxF Series				HDBWxxR-ASE Series		
						
Model	PFB110W	PFB121W	PFH610V/H/A+PFB604W	Model	PFA137	PFA109+PFB220C
Mount	Wall/Ceiling/Plane mount	Wall mount	Housing	Mount	Junction box	Ceiling mount

HDBWxxH Series						
						
Model	PFB211W	PFB211W+PFA152-E	PFA101+PFB300C	PFB5202C	PFA773	
Mount	Wall mount	Pole mount	Ceiling mount (extensible)	In-ceiling mount	Rain shade	

HDBWxxE-Z Series							
							
Model	PFA138	PFA133-E	PFB211W	PFB211W+PFA152-E	PFA101+PFB300C	PFB5201C	
Mount	Junction box	Junction box (20°)	Wall mount	Pole mount	Ceiling mount	In-ceiling mount	

# ACCESSORIES

PFWxx-A180 Series			PFWxx-A180, HDBWxxF-AS Series				
							
<b>Model</b>	PFA5300R	PFA5300R+PFA157	<b>Model</b>	PFA137	PFB203W	PFB203W+PFA152-E	PFA106+PFB220C
<b>Mount</b>	Junction mount	Pole mount	<b>Mount</b>	Junction mount	Wall mount	Pole mount	Ceiling mount

HDBWxxR1 Series							
							
<b>Model</b>	PFA197R	PFB206W	PFB206W+PFA156	PFA109+PFB220C			
<b>Mount</b>	Junction Box	Wall mount	Pole mount	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	In-ceiling mount	Rain shade	

EWxx Series			
			
<b>Model</b>	PFB203W	PFB203W+PFA152-E	PFB110W
<b>Mount</b>	Wall mount	Pole mount	Ceiling mount

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

# ACCESSORIES

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

HDWxxH,HDWxxT-ZE Series				HDW5xxTM Series			
							
Model	PFA130-E	PFB203W	PFB203W+PFA152-E	Model	PFA130-E	PFB204W	PFB204W+PFA152-E
Mount	Junction box	Wall mount	Pole mount	Mount	Junction box	Wall mount	Pole mount

HDWxxTM Series				
				
Model	PFA130-E	PFB205W-E	PFB205W-E+PFA152-E	PFA109+PFB220C
Mount	Junction box	Wall mount	Pole mount	Ceiling mount

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



# ACCESSORIES

SD6AL/TPC-SD8xx/ TPC-SD56xx Series									
	Model	PFA111+PFB303W	PFB310W	PFA111+PFB303W+PFA120	PFA111+PFB300C	PFA150	PFA151	PFA140	PFA111+PFB303S
Mount	Wall mount		Junction box		Ceiling mount	Pole mount	Corner Mount	Power box	Parapet mount





TPC-SDA8xx Series					
	Model	PFB7320W	PFB7320W+PFA5500	PFB710C+PFA5500	
Mount	Wall mount		Pole mount		Ceiling mount

SD5Axx Series						SD60xx Series	
	Model	PFB305W	PFB305W+PFA150	PFA111+PFB300C	PFA111+PFB300C+PFA150		
Mount	Wall mount	Pole mount		Ceiling mount	Pole mount	Model	PFB303W-SL+PFA120-SL
						Mount	Wall mount

SDT6Cxx Series									
	Model	PFA114+PFB303W	PFB310W	PFA114+PFB303W+PFA120	PFA114+PFB300C	PFA150	PFA151	PFA140	PFA114+PFB303S
Mount	Wall mount		Junction box		Ceiling mount	Pole mount	Corner mount	Power box	Parapet mount



# ACCESSORIES

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

HDWxxX Series		
		
Model	PFB110W	PFA156
Mount	Ceiling mount	Pole mount

MFWxxK1 Series				
				
Model	PFB603C-SG	PFB605W-SG	PFA162-SG+PFA150-SG	PFB605W-SG+PFA150-SG
Mount	Ceiling mount	Wall mount	Pole mount	Pole mount

PSDW8xx Series		
		
Model	PFA710+PFB7320W	PFA710+PFB710C
Mount	Wall mount	Ceiling mount

SDT5Xxx, SD8Cxx Series					
					
Model	PFB300C-S	PFB306W-S	PFB306W-S+PFA150-SG	PFB300C-S+PFA150-SG	PFB306W-S+PFA151
Mount	Ceiling mount	Wall mount	Pole mount	Pole mount	Corner mount

PSDWxx, EBxx-PD Series		
		
Model	PFA102+PFB303W	PFA102+PFB300C
Mount	Wall mount	Ceiling mount

PDBW5831-B360	
	
Model	PFA108+PFA111+PFB303W
Mount	Wall mount

	
Model	PFA108+PFA111+PFB300C
Mount	Ceiling mount

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

## Housings

Provide a multi-functional shield for the box camera.

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






### Housings

Model	PFH610N-IR-W	PFH610V
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")
Window Dimension	φ60mm (φ2.36")	φ60mm (φ2.36")
Wiper	Supported	--
Vandal-proof	--	Supported
Anti-corrosion	--	--
Compatibility	HFxxE, HFxxF	HFxxE, HFxxF
IR Distance	0~100m (0~328.08ft)	--
RS485 Control	Uses RS485 to control IR light & wiper	--
Power Supply	AC24V/5A	DC12V, AC24V
Power Consumption	Max. 70W	--
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
Ingress Protection	IP66	IP67
Vandal Resistance	--	IK10
Material	Aluminum (case) & PC (others)	Aluminum (case) & PC (others)
Dimension (LxWxH)	404mmx164mmx175mm (15.91"x6.46"x6.89")	404mmx164mmx132mm (15.91"x6.46"x5.2")
Certification	CE, FCC, ICES	CE, FCC, ICES

# ACCESSORIES

## Housings

Model	PFH610V-H	PFH610V-H-POE	PFH610V-IR	PFH610V-IR-POE	PFH610A	PFH610A-H
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")	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")
Window Dimension	φ60mm (φ2.36")	φ60mm (φ2.36")	φ60mm (φ2.36")	φ60mm (φ2.36")	φ60mm (φ2.36")	φ60mm (φ2.36")
Wiper	--	--	--	--	--	--
Vandal-proof	Supported	Supported	Supported	Supported	--	--
Anti-corrosion	--	--	--	--	Supported	Supported
Compatibility	HFxxE, HFxxF	HFxxE, HFxxF	HFxxE, HFxxF	HFxxE, HFxxF	HFxxE, HFxxF	HFxxE, HFxxF
IR Distance	--	--	0~100m (0~328.08ft)	0~100m (0~328.08ft)	--	--
RS485 Control	--	--	Uses RS484 to control IR light	Uses RS484 to control IR light	--	--
Power Supply	AC24V/3A	POE+	AC24V/5A	POE+	DC12V, AC24V	AC24V/3A
Power Consumption	30W	12W	55W	12.5W	--	30W
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±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)	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
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Vandal Resistance	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)
Dimension (L×W×H)	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")
Certification	CE, FCC, UL, EAC, ICES	CE, FCC	CE, FCC, UL, EAC, ICES	CE, FCC, ICES	CE, FCC, ICES	CE, FCC, UL, EAC, ICES

## Housings

Model	PFH610A-H-POE	PFH610A-IR	PFH610A-IR-POE	PFH610A-IR-W	PFH610A-IR-W-POE	PFH610N-IR-W-POE	
Appearance							
Inside Dimension	255×90×70.5mm (10.04"×3.54"×2.78") 215×90×83mm (8.46"×3.54"×3.27")	255×90×70.5mm (10.04"×3.54"×2.78") 215×90×83mm (8.46"×3.54"×3.27")	255×90×70.5mm (10.04"×3.54"×2.78") 215×90×83mm (8.46"×3.54"×3.27")	255mm×90mm×70.5mm (10.04"×3.54"×2.78") 215mm×90mm×83mm (8.46"×3.54"×3.27")	255mm×90mm×70.5mm (10.04"×3.54"×2.78") 215mm×90mm×83mm (8.46"×3.54"×3.27")	255mm×90mm×70.5mm (10.04"×3.54"×2.78") 215mm×90mm×83mm (8.46"×3.54"×3.27")	
Window Dimension	φ60mm (φ2.36")	φ60mm (φ2.36")	φ60mm (φ2.36")	φ60mm (φ2.36")	φ59.4mm (φ2.36")	φ60mm (φ2.36")	
Wiper	--	--	--	Supported	Supported	Supported	
Vandal-proof	--	--	--	--	--	--	
Anti-corrosion	Supported	Supported	Supported	Supported	Supported	--	
Compatibility	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)	0~100m (0~328.08ft)	
RS485 Control	--	Supported	Supported	Uses RS485 to control IR light & wiper	Uses RS485 to control IR light & wiper	Uses RS485 to control IR light & wiper	
Power Supply	POE+	AC24V/5A,	POE+	AC24V/5A	POE+	POE+	
Power Consumption	12W	55W	12.5W	Max. 70W	16 W (without camera)	16 W (without camera)	
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±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: -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±5 °C/OFF: 15±5 °C Cooler: ON: 37±5°C/OFF: 20±5°C ON: 5±5 °C/OFF: 15±5°C
Ingress Protection	IP67	IP67	IP67	IP66	IP66	IP66	
Vandal Resistance	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)	
Dimension (LxWxH)	404mm×164mm×132mm (15.91"×6.46"×5.2")	404mm×164mm×132mm (15.91"×6.46"×5.2")	404mm×164mm×132mm (15.91"×6.46"×5.2")	404mm×164mm×175mm (15.91"×6.46"×6.89")	447mm × 24mm × 234mm (17.60" × 9.45" × 9.21")	447mm × 24mm × 234mm (17.60" × 9.45" × 9.21")	
Certification	CE, FCC	CE, FCC, UL, EAC, ICES	CE, FCC, ICES	CE, FCC	CE, FCC	CE, FCC	

# ACCESSORIES

## Lenses

A wide range of multi-functional lenses for box cameras.

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



### Lens

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)

### Lens

Model	PLZ20C0-P	PLZ21C0-P	PFL010542-A12PE	PFL1040-K9PE	PFL1640-L12PE
Appearance					
Image Format	1/1.7"	1/1.7"	1/1.7"	1"	1.1"
Focal Length	3.7-16mm	10.5-42mm	10.5-42mm	10-40mm	16-40mm
Lens Pixel	12MP	12MP	12MP	9MP	12MP
Aperture	F1.5	F1.5	F1.5	F1.5	F1.4
Mount	CS	CS	CS	C	C
Focus Control	Manual	Manual	Motorized	Motorized	Motorized
Zoom Control	Manual	Manual	Motorized	Motorized	Motorized
Iris Control	P-iris	P-iris	P-Iris	P-Iris	P-Iris
IR Correction	Supported	Supported	Supported	--	Supported
M.O.D.	0.5m (1.64ft)	0.3m (0.98ft)	1m (3.28 ft)	2.5m (8.2ft)	1.5m (4.92 ft) (W)-2.5m (8.20 ft) (T)
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)



## 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



### Camera Testers

Model	PFM900-E	PFM907-E
Appearance		
Operation System	Linux	Linux
Language	Multi-language interface	Multi-language interface
Operation Mode	Keyboard	Touch screen and keyboard
Screen	4.0" TFT screen, 800 x 480 resolution	7 inch capacitive touch screen display, 1920x1200 resolution
Update	Online and local update	Online and local update
Analog Video Test	HDCV: 1/2/4/5/6/8MP HDTV: 1/2/4/5/6/8MP AHD: 1/2/4/8MP CVBS: PAL/NTSC	HDCV: 1/2/4/5/6/8MP HDTV: 1/2/4/5/6/8MP AHD: 1/2/4/8MP CVBS: PAL/NTSC
IPC Test	Discover the device, real-time video, camera configuration, PTZ test, discover ONVIF device	Discover the device, real-time video, camera configuration, PTZ test, discover ONVIF device
Camera Power Supply	DC12V/2A output	DC12V/2A output
RS485	Receive and display protocol data with a RS485 cable	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
Accessibility	Audio Test, TDR Test, Digital Multimeter, POE Test, UTC	Audio Test, TDR Test, Digital Multimeter, Optical Power Meter, HDMI- IN/OUTPUT, POE Test, UTC
Charger	PoE 48V/0.32A	DC 12V/1.5A
Working Temperature	-10°C~+55°C (+14°F~+131°F)	-10°C~+55°C (+14°F~+131°F)



# ACCESSORIES

## 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	PFC102F	PFC701W-A
Appearance				
Protection	IP66	IP54	IP54	IP55
Material	Aluminum & SECC	SUS201	SPCC	SUS201
Dimensions	450mmx365mmx191mm (17.72"×14.37"×7.52")	600mmx400mmx226mm (23.62"×15.75"×8.9")	590 mm × 480 mm × 327 mm (23.23" × 18.90" × 12.87")	500mm×292.8mm×650mm (19.68"×11.52"×25.59")
Weight	9kg (19.84lb)	14kg (30.86lb)	23.5 kg(51.81 lb)	18kg(39.68lb)
Compatibility	External: PTZ Camera, Bullet Camera, CPE, Illuminator Internal: Switch, MNVR, Switch Power, Breaker, Lightning Protector, Fan	Switch, MNVR, Switch Power, Breaker, Lightning Protector, Fan	External: PTZ Camera, Bullet Camera, CPE, Illuminator Internal: Switch, MNVR, Switch Power, Breaker, Lightning Protector, Fan	External: Bullet Camera, CPE, Illuminator Internal: Breaker, Socket, Water Tank, Pump, LED Light Lightning Protector, Fan

## 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	AC100~240V, 50/60Hz, 0.5A	AC100~240V, 50/60Hz, 0.6A	AC90~264V	AC100~240V, 50/60Hz, 0.6A	AC180~264V, 50/60Hz, 0.6A
Output	DC12V(+7%, -3%), 1A	DC12V(+7%, -3%), 2A	DC12V(+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)

### Distributed Power Box



Model	PFM340-5CH	PFM341-9CH	PFM342-9CH	PFM343-19CH
Appearance				
Input	AC90~264V	AC90~264V	AC90~264V	AC90~264V
Output	5 x 12VDC (-3%~+7%), 4A	9 x 12VDC (-3%~+7%), 5A	9 x 12VDC (-3%~+7%), 10A	19 x 12VDC (-3%~+7%), 20A
Working Temperature	-20°C~+45°C (-4°F~+113°F)	-20°C~+45°C (-4°F~+113°F)	-20°C~+45°C (-4°F~+113°F)	-20°C~+45°C (-4°F~+113°F)
Surge Protection	Line to ground: 4000V Line to line: 2000V	Line to ground: 4000V Line to line: 2000V	Line to ground: 4000V Line to line: 2000V	Line to ground: 4000V Line to line: 2000V

### Switching Power

Model	PFM344D-4CH	PFM344D-8CH	PFM320S-150	PFM320S-50
Appearance				
Input	AC185~240V	AC185~240V	AC88~132V/AC176~264V	AC90~264V
Output	Normal: DC12V Long: DC13.5V Ex-Long: DC15V Single 12W, total 30W	Normal: DC12V Long: DC13.5V Ex-Long: DC15V Single 12W, total 60W	DC12V, 12.5A	DC12V, 4.2A
Working Temperature	0°C~+40°C (32 °F~+104 °F)	0°C~+40°C (32 °F~+104 °F)	-20°C~+50°C (60% output at+70°C)	-20°C~+50°C (60% output at+70°C)
Surge Protection	Line to ground: ±4000V Line to line: ±2000V	Line to ground: ±4000V Line to line: ±2000V	Line to ground: ±2000V Line to line: ±1000V	Line to ground: ±2000V Line to line: ±1000V

# ACCESSORIES

## UPS

Model	PFM350-360	PFM350-900
Appearance		
Capacity	600VA/360W	1500VA/900W
Input Voltage	220Vac~240Vac 110Vac~120Vac (US)	220Vac~240Vac 110Vac~120Vac (US)
Power Factor	0.6	0.6
Output Voltage	220/230/240 Vac 110/120 Vac (US)	220/230/240 Vac 110/120 Vac (US)
Transfer Time	2-6ms	2-6ms
Battery Type & Number	12 V/7 Ah × 1	12 V/9 Ah × 2
Protection	Overload, discharge and overcharge protection	Overload, discharge and overcharge protection
Operating Temperature	0°C~+40°C (32°F~+104°F)	0°C~+40°C (32°F~+104°F)
Dimensions	279mm×101mm×142mm (10.98"×3.98"×5.59")	320mm×130mm×182mm (15.6"×5.12×7.17")
Weight	4.25kg (9.37lb)	10.4kg (22.93lb)




## 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 status real-time monitoring reduces maintenance costs



### Integrated Solar Monitoring System



Model	DH-PFM378-B60-W	PFM378-B100-WB	KIT: DH-PFM378-B125-CB/ DH-SD6C3432XB-HNR-AGQ-PV/ DH-PFB301C/PFA111
Appearance			
Solar Panel Type	Monocrystalline silicon	Monocrystalline silicon	Monocrystalline silicon
System Control	MPPT	MPPT	MPPT
System Max. Power	60 W	100W	125W
Solar Cell Efficiency	21%	21%	21%
System IP Rating	IP65	IP65	IP65
Installation	Supports wall mount or pole mount	Supports wall mount or pole mount	Supports wall mount or pole mount
Camera Image Sensor	-	--	1/2.8" CMOS
Camera Effective Pixels	-	--	2560 (H) × 1440 (V)
Camera RAM/ROM	-	--	4 GB/1 GB
Video Compression	-	--	Smart H.265+; H.265; Smart H.264+; H.264B; H.264M; H.264H; MJPEG
Smart Codec	-	--	Smart H.265+; Smart H.264+
AI Coding	-	--	--
Operating 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)
Dimensions	710.0mm×603mm×666 mm (27.95"×23.74"×26.22")	815mm×846.8mm×893.3mm (32.1"×33.3"×35.2")	965.0 mm×910.5 mm×786.4 mm (37.99"×35.85"× 30.96")
Net Weight	13kg (28.66 lb)	20.1kg (44.31 lb)	24.71kg (54.48lb)

# ACCESSORIES

## Lithium Battery

Model	PFM372-LS20-H	PFM372-L45-4S14P
Appearance		
Nominal Capacity	20Ah	45Ah
Charging Current	4A	9A
Discharge Current	4A	9A
Charging Voltage	Max.DC12.6V	Max.DC14.6V
Rated Voltage	DC10.8V	DC12.8V
Internal Resistance	≤180mΩ	≤80mΩ
Max. Current	Charging: 10A, Discharging: 10A	Charging: 10A, Discharging: 10A
Material	Q235 steel	Die casting aluminum
IP Rating	IP65	IP66
Operating Temperature	Charge: -20 °C to +45 °C (-4 °F to +113 °F) Discharge: -20 °C to +60 °C (-4 °F to +140 °F)	Charge: -20 °C to +45 °C (-4 °F to +113 °F) Discharge: -20 °C to +60 °C (-4 °F to +140 °F)
Product Dimensions	211.0×212.6×100.0mm (8.31" × 8.37" × 3.94")	Outer: 359.8×268.7×116.0mm
Net Weight	3.4 kg (7.50 lb)	8.5 kg (18.74 lb)

## Solar Panel

Model	PFM371-M120	PFM371-M180	PFM371-M275
Appearance			
Max. Power (Pmax)	120Wp	180Wp	275Wp
Max. Power Point Voltage (Vmp)	19.6 V	32.66 V	32.66 V
Max. Power Point Current (Imp)	6.12 A	5.51 A	8.42 A
Efficiency of Battery Piece	18.30%	18.34%	19.29%
Operating 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)

## Solar Power Distribution Boxes

Model	PFM377-D2440	PFM377-D4830	PFM377-D4860
Appearance			
Compatibility	Includes MPPT controller, lightning arrester, DC circuit breaker, etc.	Includes MPPT controller, lightning arrester, DC circuit breaker, etc.	Includes MPPT controller, lightning arrester, DC circuit breaker, etc.
Controller Type	MPPT	MPPT	MPPT
System Voltage	12VDC/24VDC Auto	12VDC/24VDC/48VDC Auto	12VDC/24VDC/36VDC/ 48VDC Auto
Max. Battery Voltage	9VDC~70VDC	9VDC~70VDC	9VDC~70VDC
Rated Charging Current	40A	30A	60A
Rated Load Current	20A	20A	20A
Max. Capacitive Load Capacity	10000μF	10000μF	10000μF
Max. Input Open Voltage of Solar Panels	100V (25°C); 90V (-25°C)	150V (25°C); 135V (-25°C)	150V (25°C); 145V (-25°C)
Max. Input Power of Solar Panel	550W/12VDC; 1100W/24VDC	400W/12VDC; 800W/24VDC; 1200W/36VDC; 1600W/48VDC	800W/12VDC; 1600W/24VDC; 2400W/36VDC; 3200W/48VDC

# ACCESSORIES

	Storage Batteries			Mounting Brackets of Solar Panels	
Model	DC12-100	DC12-150	DC12-200	PFM376-F	PFM376-G
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-M120 (2 pcs) or PFM371-M180 (2 pcs) Pole Diameter: 150 mm~220 mm	Mounting Bracket of PFM371-M275 (2 pcs) Pole Diameter: 150 mm~220 mm

	Battery Box				
Model	PFM374-H400	NTS-300-212UN	NTS-300-248UN	NTS-450-224UN	NTS-450-248UN
Appearance					
Description	Solar Battery Storage Box, max. 2 batteries in 1 box	300W power Inverter, Rated Input:DC12V Max. Input Voltage:DC16.5V Output: 200/220/230/240Vac selectable via settings button	300W power Inverter, Rated Input:DC48V Max. Input Voltage:DC66V Output: 200/220/230/240Vac selectable via settings button	450W power Inverter, Rated Input:DC24V Max. Input Voltage:DC33V Output: 200/220/230/240Vac selectable via settings button	450W power Inverter, Rated Input:DC48V Max. Input Voltage:DC66V Output: 200/220/230/240Vac selectable via settings button



# ACCESSORIES




## 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



### Security Radar

Model	PFR4K-E50	PFR4K-E120	PFR4Q-E120
Appearance			
Max. Number of Targets	64	64	64
Detection Distance	50.0 m (164.04 ft)	120.0 m (393.70 ft)	120.0 m (393.70 ft)
Detection Angle	Horizontal: 120°, Vertical: 36°	Horizontal: 120°, Vertical: 36°	Horizontal: 120°, Vertical: 26°
Max. Detection Speed	40 km/h, continuous trajectory	40 km/h, continuous trajectory	108km/h, continuous trajectory
Min. Detection Speed	0.17 m/s, continuous trajectory	0.17 m/s, continuous trajectory	0.6km/h, continuous trajectory
Distance Accuracy	± 1 m (± 3.28 ft)	± 1.5 m (± 4.92 ft)	± 1.5 m (± 4.92 ft)
Angle Accuracy	± 1°	± 1°	± 1°
Max. Number of Areas	10	10	25
Modulation Type	FMCW	FMCW	FMCW
Scan Frequency	10 Hz	10 Hz	10 Hz
Operating Frequency	24 GHz	24 GHz	61 GHz
Detection Target Type	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
Radar+PTZ Smart Tracking	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
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
Target 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
Restore to Factory Default	Restore default settings with one click	Restore default settings with one click	Restore default settings with one click
Map Encoding	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 (802.3at)

## Security Radar

Model	PFR4K-D300	PFR4K-D450	PFR4K-B240	PFR7C-D1K5	PFR7C-D3K
Appearance					
Max. Number of Targets	32	32	32	200	200
Detection Distance	300.0 m (984.25 ft)	450.0 m (1476.38 ft)	240 m (787.40 ft)	Human: 1.5 km (0.93 mi) Vehicle: 3 km (1.86 mi)	Human: 3 km (1.86 mi) Vehicle: 5 km (3.11 mi)
Detection Angle	Horizontal: 90°, Vertical: 13°	Horizontal: 90°, Vertical: 13°	Horizontal: 20°, Vertical: 13°	Horizontal: 90°, Vertical: 24°	Horizontal: 90°, Vertical: 12°
Max. Detection Speed	80 km/h, continuous trajectory	80 km/h, continuous trajectory	Radial: 80 km/h; Crossing: 36 km/h	100 km/h (62.14 mi/h)	100 km/h (62.14 mi/h)
Min. Detection Speed	1.8 km/h, continuous trajectory	1.8 km/h, continuous trajectory	0.18 km/h	1.8 km/h (1.12 mi/h)	1.8 km/h (1.12 mi/h)
Distance Accuracy	± 1.5 m (± 4.92 ft)	± 1.5 m (± 4.92 ft)	± 1.5 m (± 4.92 ft)	≤ 10 m (32.81 ft)	≤ 10 m (32.81 ft)
Angle Accuracy	± 1°	± 1°	± 1°	≤ 1°	≤ 1°
Max. Number of Areas	10	10	10	--	--
Modulation Type	FMCW	FMCW	FMCW	Phased array	Phased array
Scan Frequency	8 Hz	8 Hz	8 Hz	≥ 1 Hz	≥ 1 Hz
Operating Frequency	24 GHz	24 GHz	24 GHz	C-band	C-band
Detection Target Type	Human and vehicle	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	Web: 3, DSS Pro: 8
Radar+PTZ Smart Tracking	Web & DSS Pro	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	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	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	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	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	Restore default settings with one click
Map Encoding	Supported	Supported	Supported	Supported	Supported
Power Supply	DC 12V (±30%), AC 24V (±30%), PoE (802.5at)	DC 12V (±30%), AC 24V (±30%), PoE (802.6at)	DC 12V (±30%), AC 24V (±30%), PoE (802.3at)	9-36 VDC	9-36 VDC

# ACCESSORIES



## Visual Radar

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

- Radar and video integration
- Extremely low rate of false alarms
- 24/7 all-weather monitoring
- Fast filtering of targets
- 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	--

# VIDEO MANAGEMENT SOFTWARE

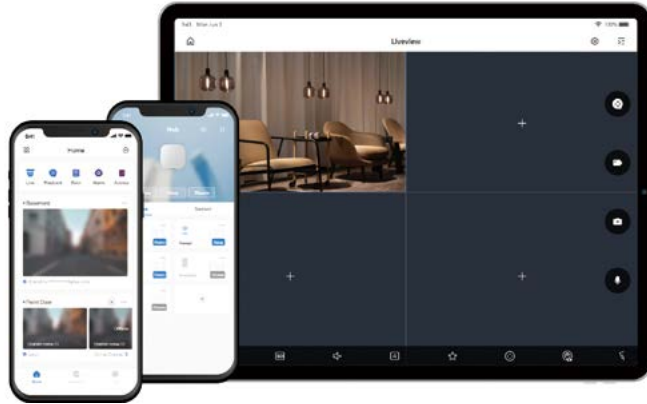
## DSS Products

	Model	DSS Express (Free Version)	DSS Express (License Version)	DSS Professional	DSS4004-S2	DSS7016D (R)-S2
Appearance						
Deployment	OS	Windows	Windows	Windows	Linux	Linux
	Form	Software	Software	Software	All-in-One	All-in-One
	Type of Deployment	Single-server	Single-server	Distribute and Multi-sites	Single-server	Distribute
	Hot Standby	--	--	Supported	--	Supported
	N+M	--	--	Supported	--	Supported
Performance	Number of Camera Per Server	64 devices; 64 channels	256 devices; 256 channels	1,000 devices; 2,000 channels	256 devices; 256 channels	500 devices; 1,000 channels
	Number of FR Per Server	8 devices; 8 channels	8 devices; 8 channels	100 devices; 500 channels	8 devices; 32 channels	20 devices; 100 channels
	Number of ANPR Per Server	8 (4 channels for entrance)	8 (4 channels for entrance)	500 (60 channels for entrance)	32 (6 channels for entrance)	100 (16 channels for entrance)
	Number of Video Metadata Per Server	8 channels	8 channels	500 channels	32 channels	100 channels
	Users	10 online users and 50 total users	10 online users and 50 total users	500 online users and 2,500 total users	10 online users and 50 total users	50 online users and 200 total users
	Microsoft Active Directory	--	--	Supported	--	Supported
	Video Input or Output Per Server	200Mbps	200Mbps	600Mbps	350Mbps	600Mbps
	Video Storage Bandwidth Per Server	100Mbps	100Mbps	600Mbps	150Mbps	600Mbps
	Maximum Capacity Per Storage Server (Local)	7Days	2TB	400TB	100TB	200TB
Maximum Capacity Per Storage Server (IPSAN)	--	--	400TB	100TB	200TB	
Features	Live View	Supported	Supported	Supported	Supported	Supported
	Record Playback	Supported	Supported	Supported	Supported	Supported
	Video Wall		Supported (Only NVD)	Supported	Supported	Supported
	Google Map	--	--	Supported	--	Supported
	Event Center	Supported	Supported	Supported	Supported	Supported
	DeepXplore	Supported	Supported	Supported	Supported	Supported
	Track Generation	--	--	Supported	--	Supported
	Case Bank	--	--	Supported	--	--
	Maintenance Center	--	--	Supported	--	Supported

\* For more detailed parameters, please refer to DSS products datasheet.

# VIDEO MANAGEMENT SOFTWARE

## DMSS



### Digital Mobile Surveillance System

Monitor anything using your smartphone or tablet anytime, anywhere.



DMSS	Digital Mobile Surveillance System	Security at Fingertips
Devices	Supported Devices	XVR, NVR, IPC, PTZ, VTO, DoorBell, Access Controller, Alarm Hub, Accessory (PIR, siren, door detector, etc.)
	Max. Devices Recommended to Add	1024
	Add Device Method	IP/Domain, SN/Scan, LAN Search, Wired, Wireless (smartconfig, soft AP)
	Features	Live and Playback, Alarm push, Device Sharing, Export Device, Time Zone, Cloud Update, Remote Configuration
Video	Compression Format	H.265 / H.264 / MPEG-4 / JPEG
	Display Resolution	Up to 1920-1080
Live	Split Live View	Display in 1, 4, 9, 16 views
	Features	Snapshot, Video Recording, Playback, Play/Pause, Mute/Unmute, Orientation/Landscape, Video Stream, Two-way Audio, Favorite, PTZ Control, White Light/Buzzer, Fisheye, Wiper, Alarm Message, Unlock the Door, etc.
Playback	Video Playback Duration	24h
	Features	Snapshot, Video Recording, Play/Pause, Mute/Unmute, Orientation/Landscape, Clip, Play slowly/Play fast, Timebar, Frame-in-frame
Alarm Push Notificationh	Alarm Type	Motion Detection, SMD, Intrusion Alarm, Tripwire Alarm, Scene Changing, Video Mask, Disk Alarm (no disk, low space, disk error), Object Detection, Face Alarm, IPC Offline, License Plate Recognition, Missing Object, Temperature Alarm, Fast Moving, Defocus, Local Alarm, Crowd Alarm, Network Alarm, Fire Alarm, Smoking Alarm, Phone Call, etc.
	Push Type	Alarm Video, Preview, Message, Video Call

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

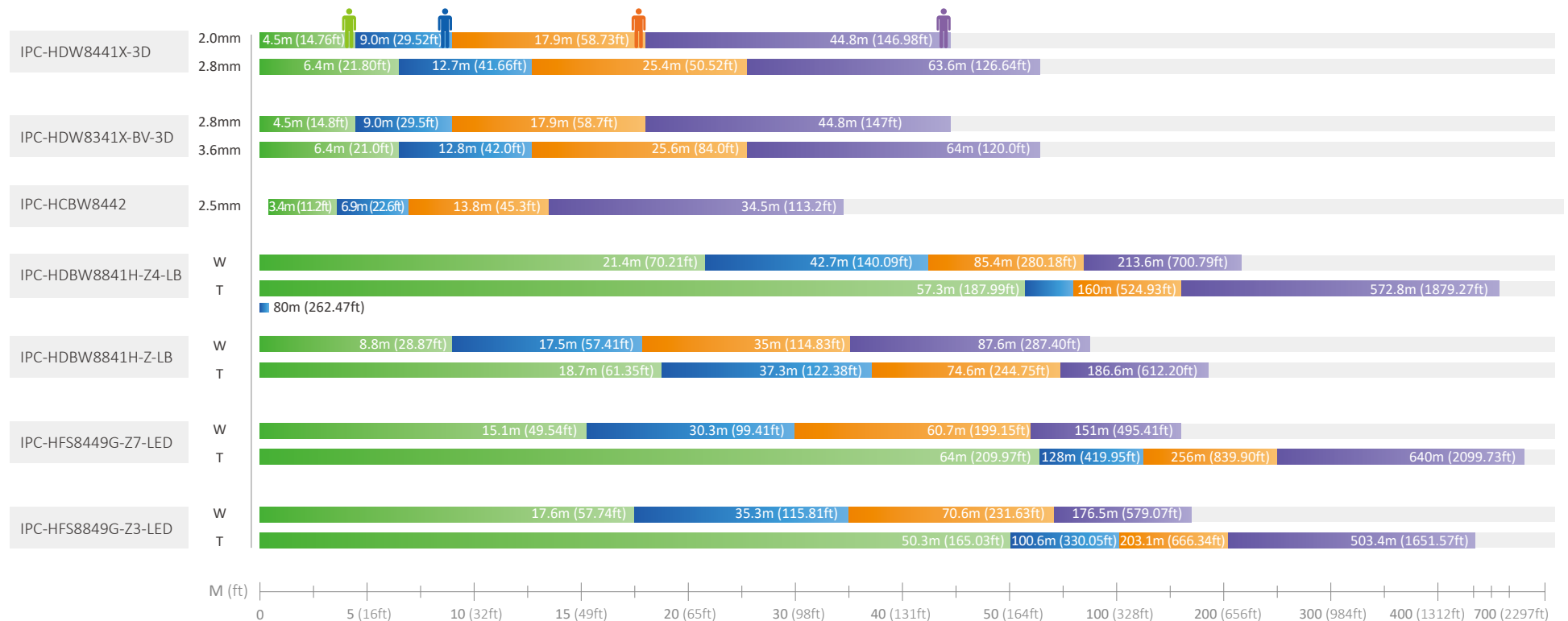
Find the Optimal Camera for Your Customized Surveillance Needs

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 8 Series

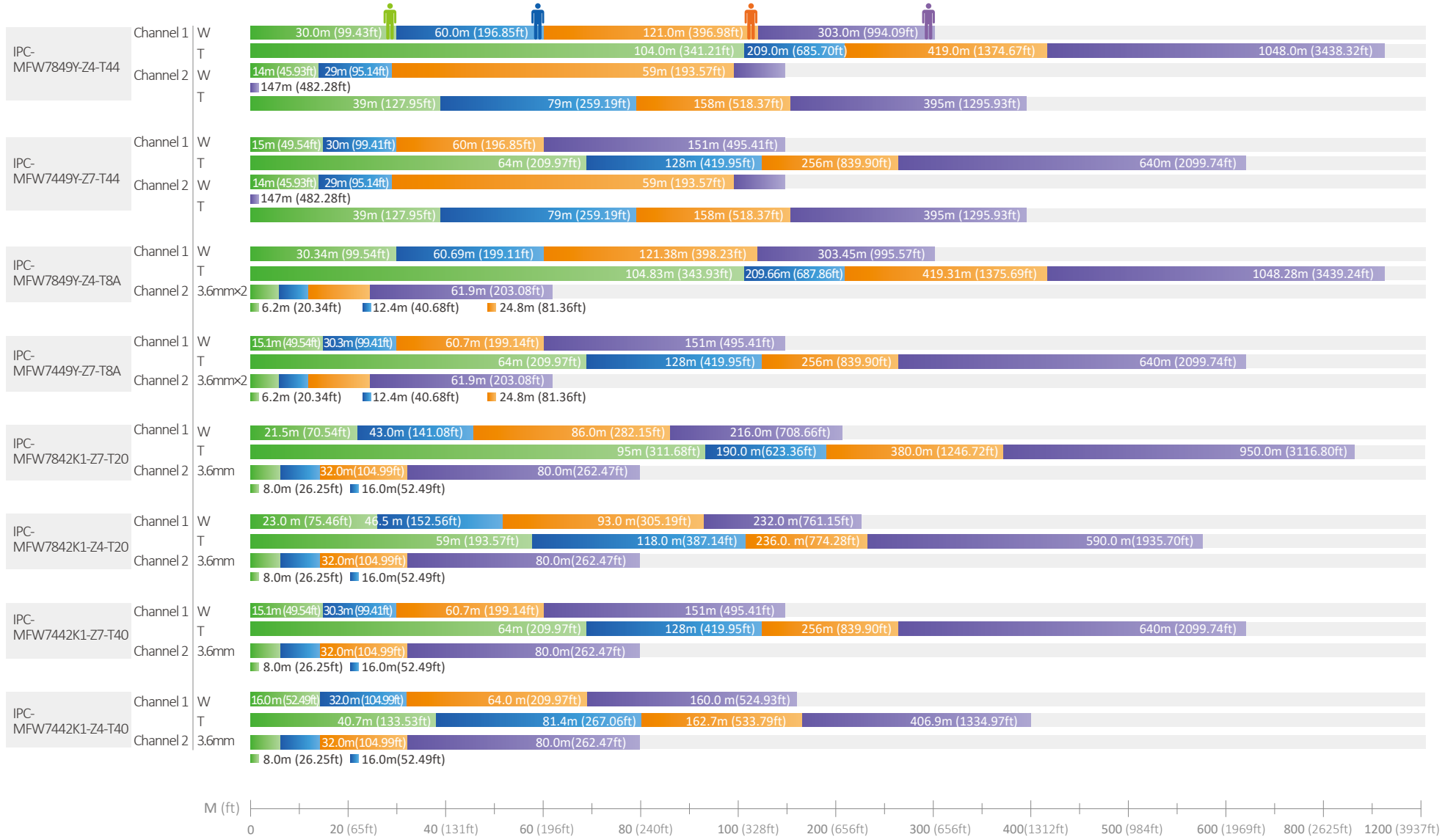




# DORI DISTANCE (D/O/R/I)

## NETWORK CAMERAS

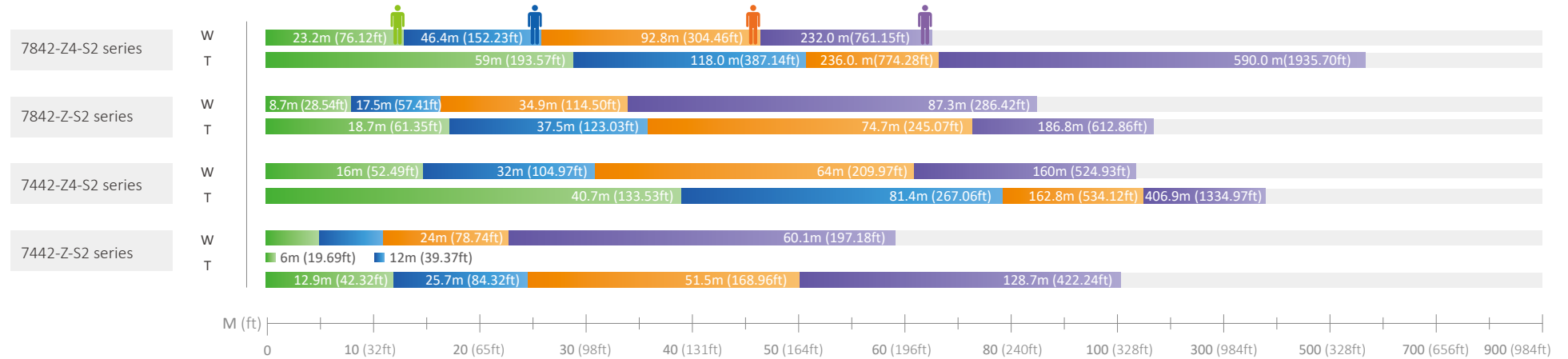
### WizMind 7 Series



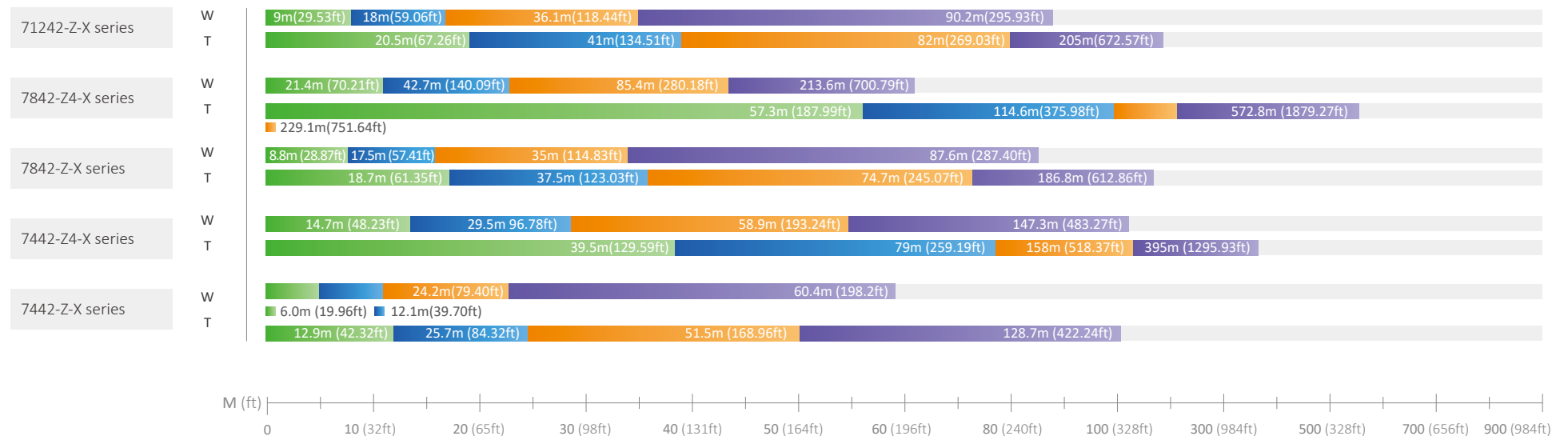
# DORI DISTANCE (D/O/R/I)

## NETWORK CAMERAS

### WizMind 7 Series



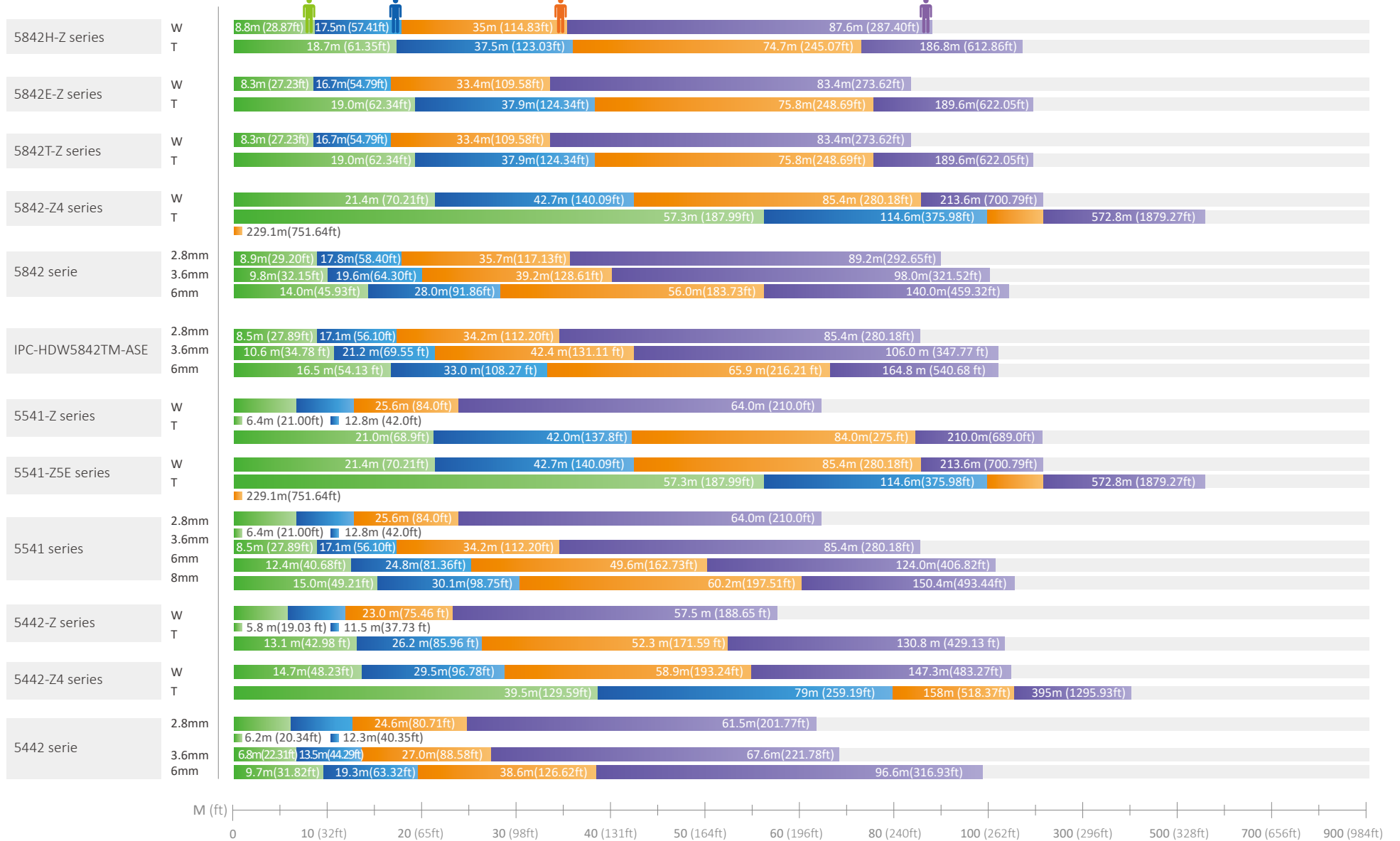
### WizMind X Series



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

## NETWORK CAMERAS

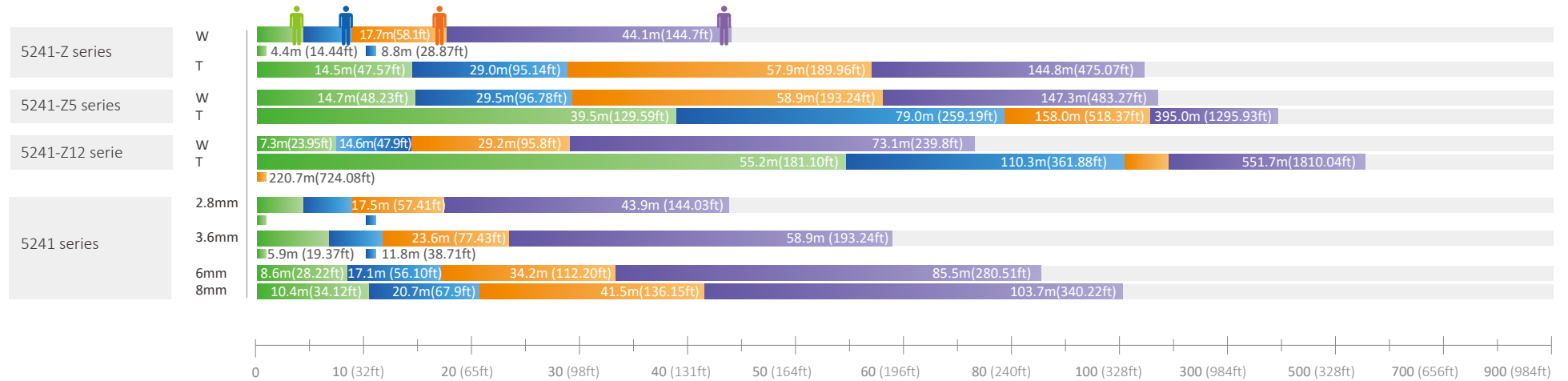
### WizMind 5 Series



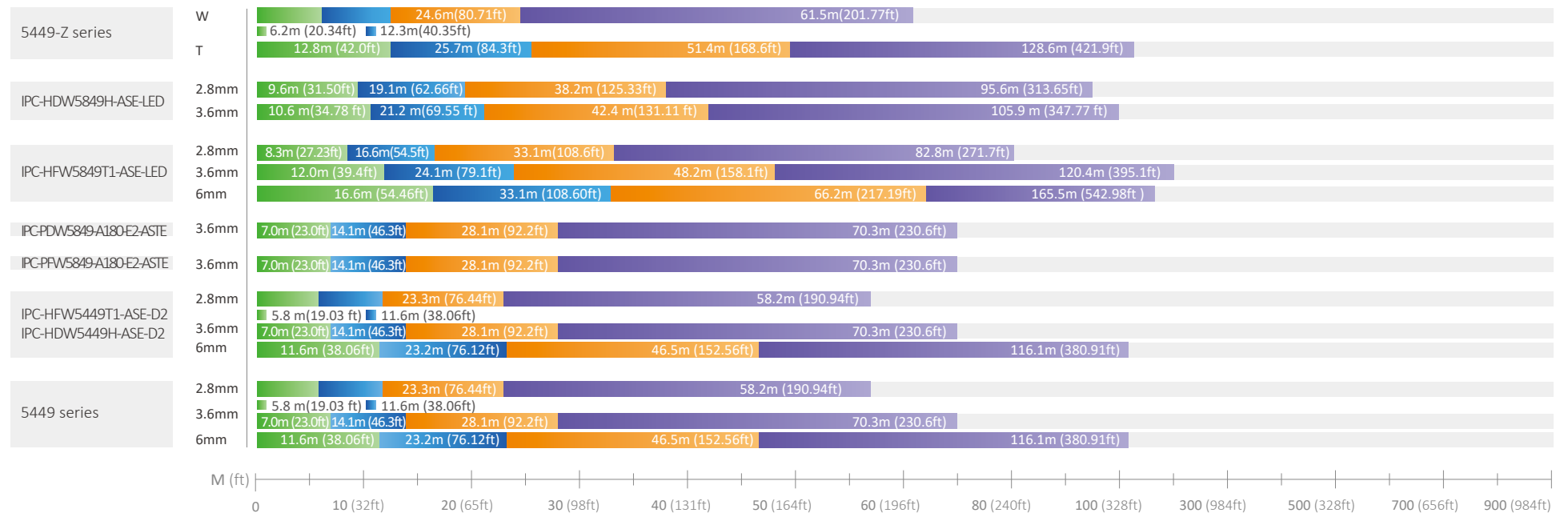
# DORI DISTANCE (D/O/R/I)

## NETWORK CAMERAS

### WizMind 5 Series



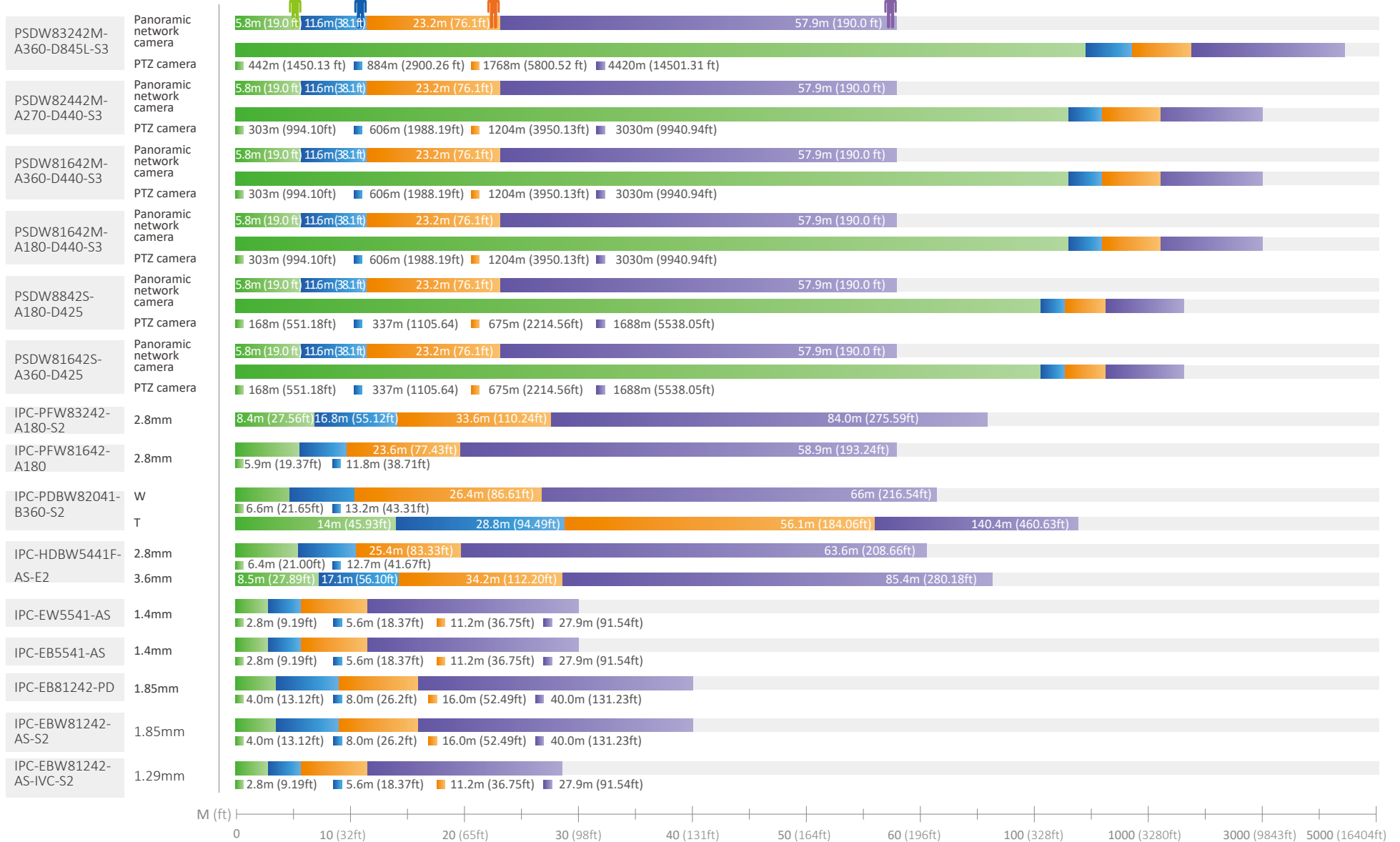
### WizMind Full-color Series



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

## NETWORK CAMERAS

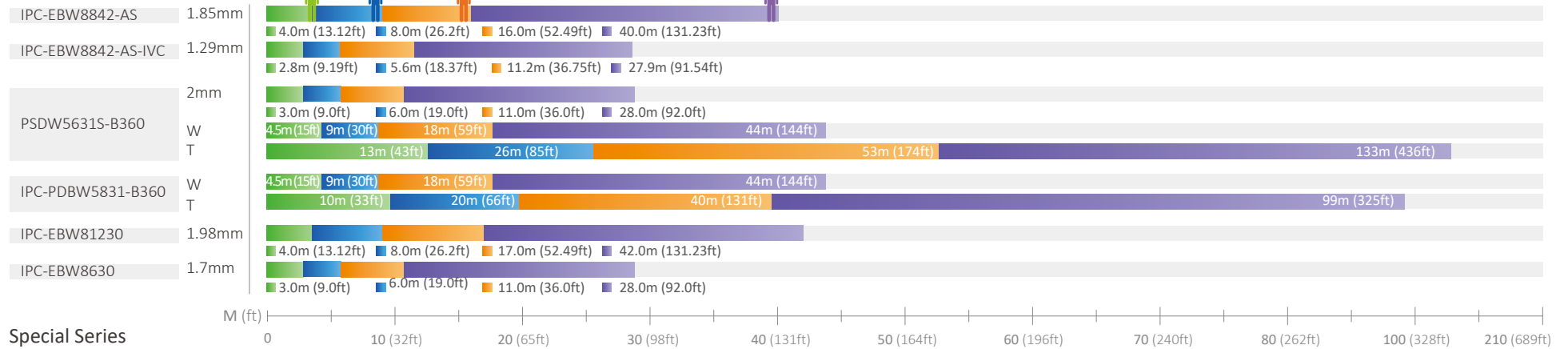
### Panoramic Series



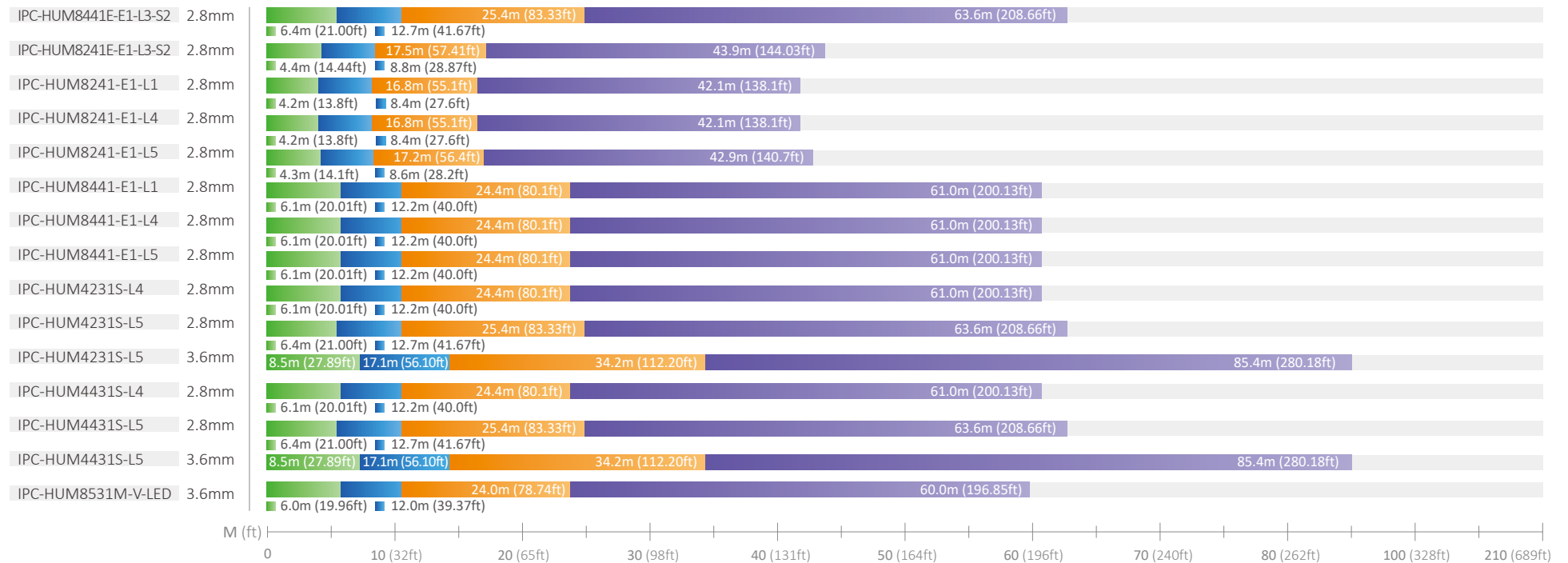
# DORI DISTANCE (D/O/R/I)

## NETWORK CAMERAS

### Panoramic Series



### Special Series

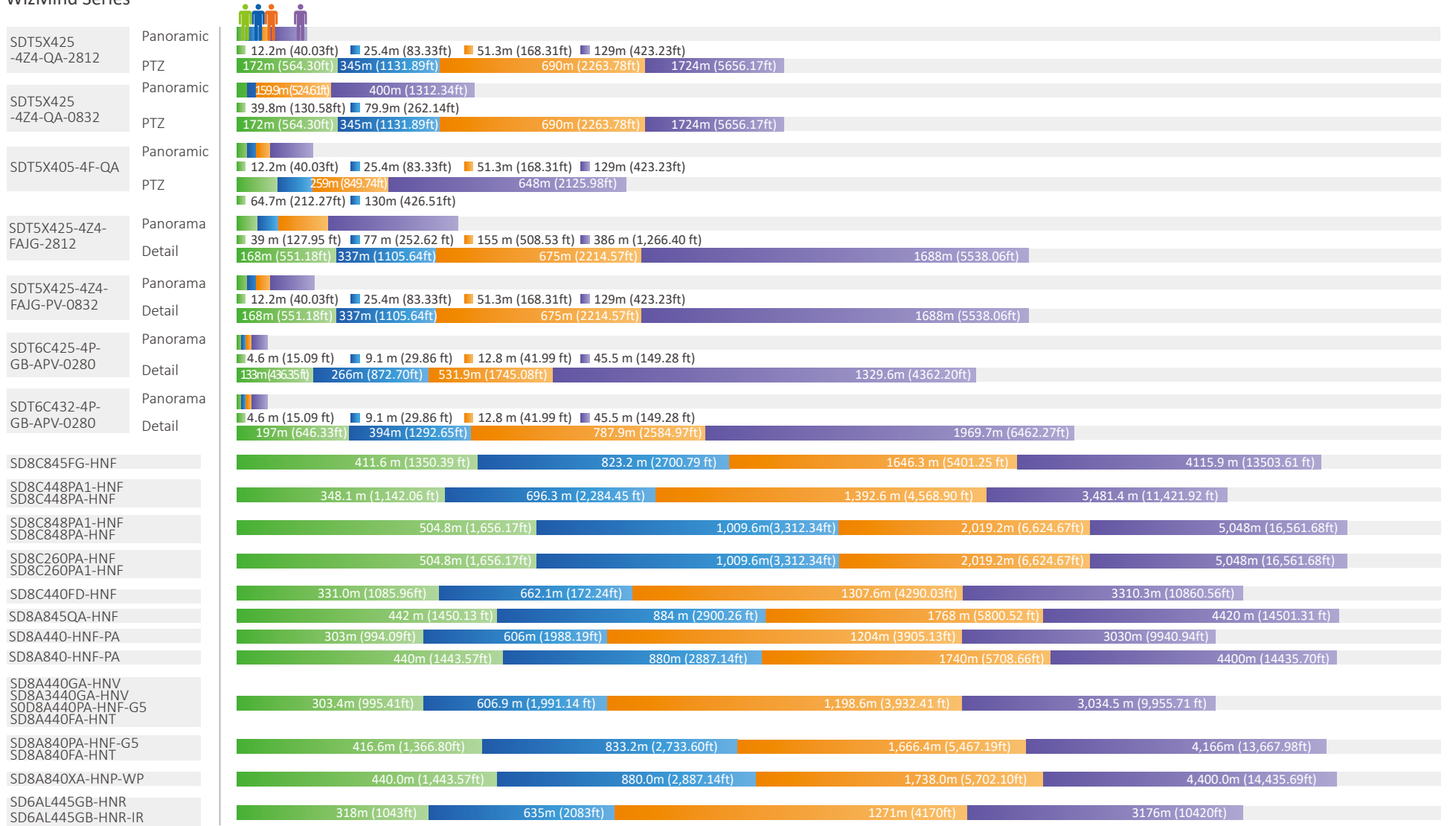




# DORI DISTANCE (D/O/R/I)

## NETWORK PTZ CAMERAS

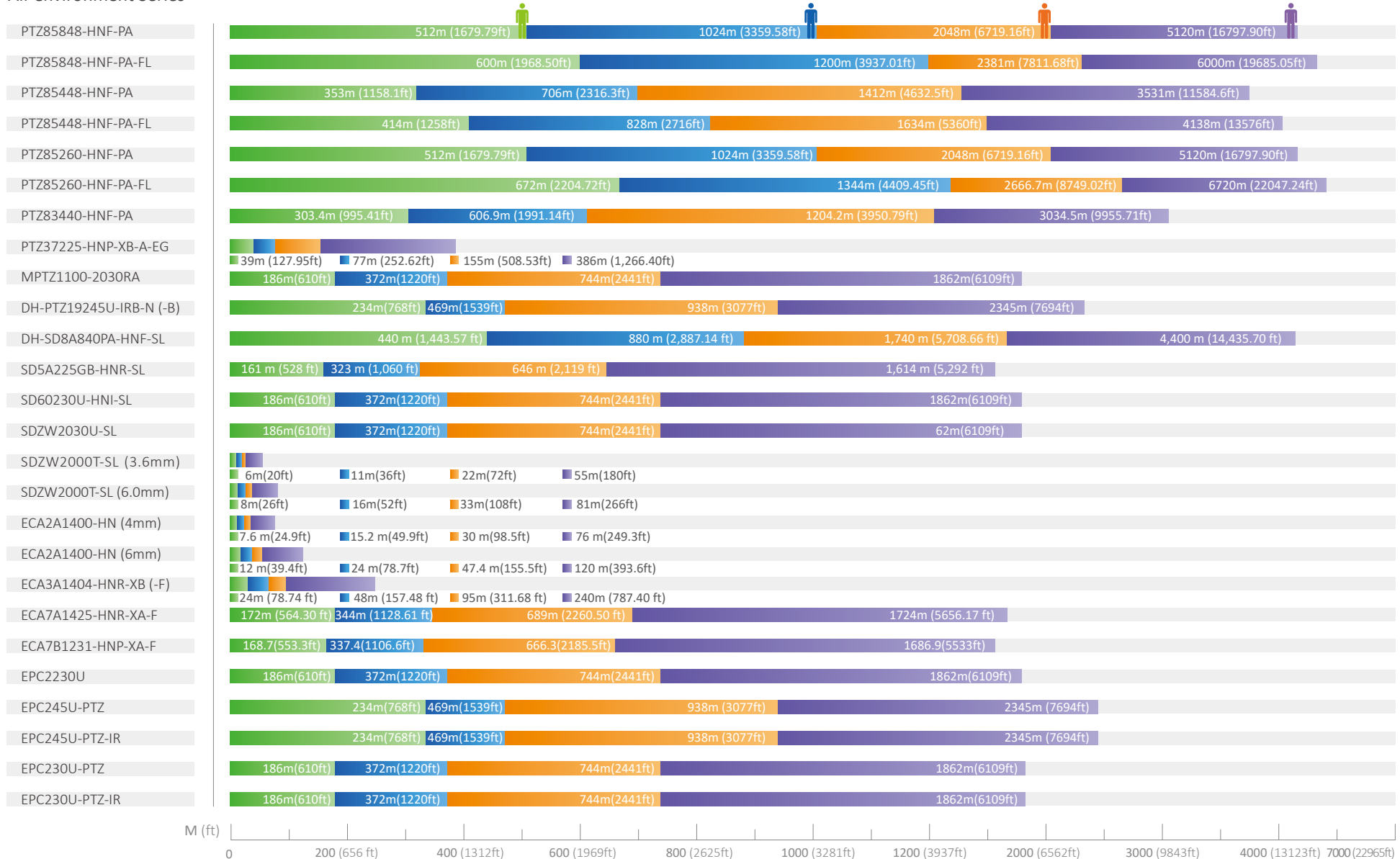
### WizMind Series



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

## NETWORK PTZ CAMERAS

### All-environment Series



# 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 and depends on a common standard-- Johnson's criteria.

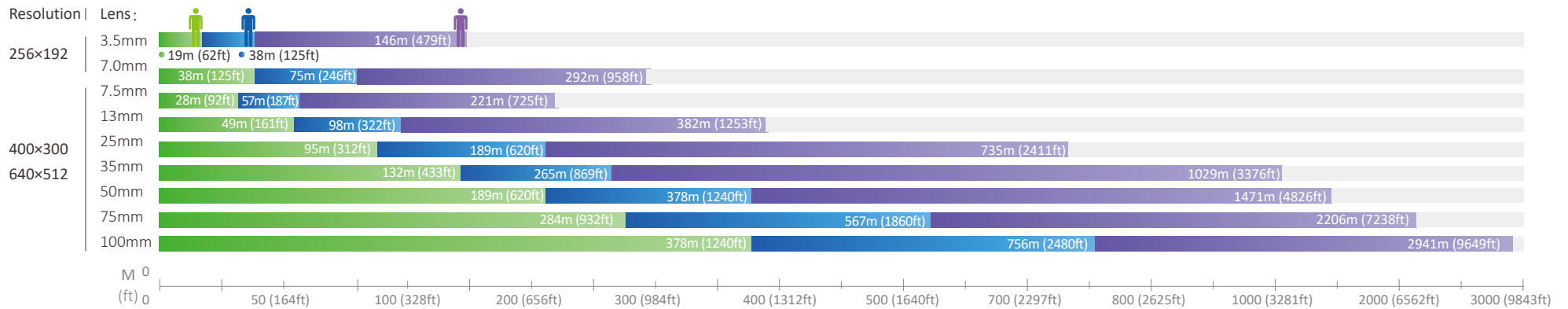
[[http://en.wikipedia.org/wiki/Johnson's\\_criteria](http://en.wikipedia.org/wiki/Johnson's_criteria)]

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

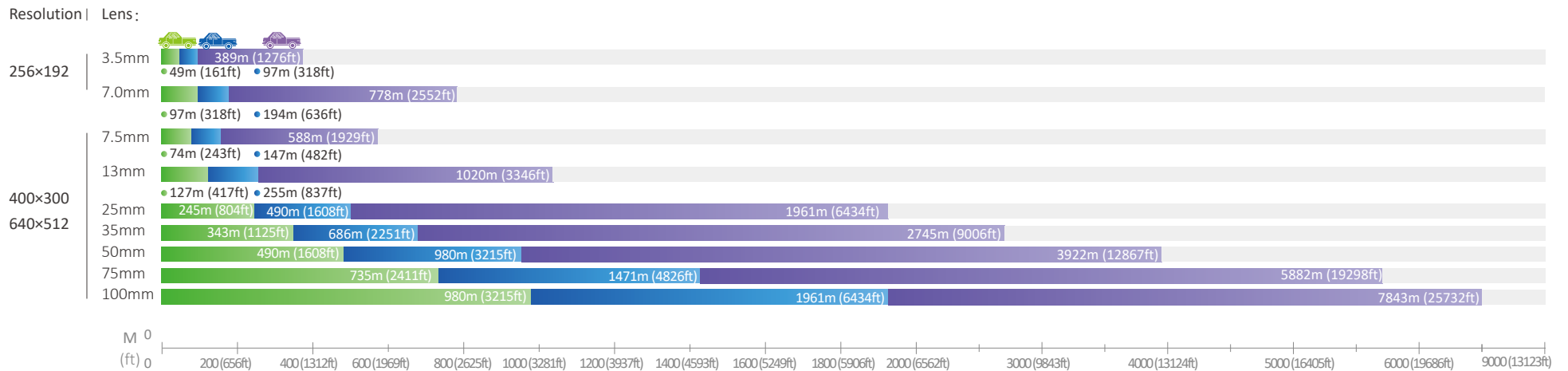
Recognition: Distinguish classification of objects [Human, Vehicle or Building]  
 Required minimum pixels: Human 14 pixels, Vehicle 12 pixels

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)



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\*Design and specifications are subject to change without notice.

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