

# IP VIDEO DISTRIBUTION PRODUCTS | 2023 Ver.1

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

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# WizSense

Launched by Dahua Technology, WizSense is a series of wide range AI products and solutions that adopt independent AI chip and deep learning algorithm. It can recognize human and vehicle in an image with high accuracy, enabling users to focus on real targets. Based on Dahua's advanced technology, WizSense makes your video intelligent, simple and inclusive.



**Intelligent** refers to WizSense powered by AI chip and deep learning algorithm. It provides various features that realize accurate alarms for human and vehicle, as well as quick target search, maximizing resources to increase overall efficiency.



**Simple** means WizSense offers simple configuration, especially for SMD that can be enabled by just a single button. It eases your customer's daily job and also empowers them to make better business decisions.



**Inclusivity** of WizSense is the idea that everyone gets the opportunities and benefits from AI. With affordable prices and easy configuration of Dahua WizSense, AI is no longer confined to the ivory tower, but applied to real scenarios instead.

## Wiz Sense

· SMD 4.0 · Quick Pick · AI SSA · AI Coding





# WizSense Core Technologies

## Quick Pick

### Quicker Search

• Quick Pick technology can quickly identify human/vehicle targets of interest, which optimizes the search for relevant SMD events. With excellent integration of intelligent functions of both cameras and recorders, this feature can search human/vehicle targets based on AI algorithm that can extract and compare clothing and vehicle colors.

### Multiple-target Search

• Quick Pick can compare one or more human/vehicle targets at the same time. The search results of Quick Pick include video clips related to all human/vehicle targets in the detection box.



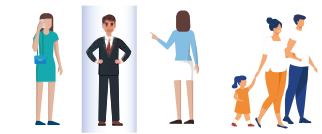
Enhance Search Efficiency  
≥ 90%



Filter Target Accuracy  
≥ 90%



Average Search Time  
≤ 5s



## AI SSA

### Deep Learning Algorithm

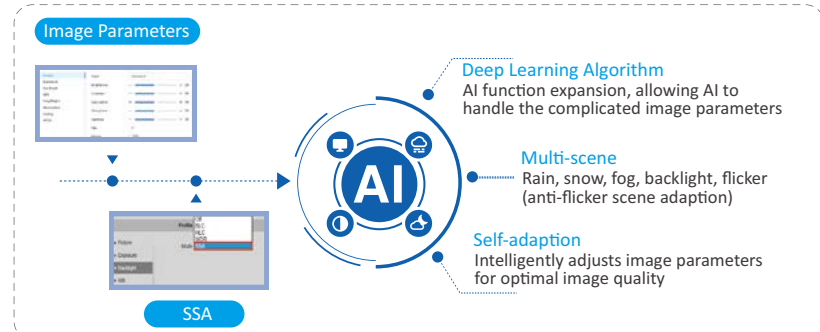
• AI SSA (Scene Self-adaption) technology is based on deep learning algorithm that can intelligently identify multiple scenes, allowing AI to handle the complicated image parameters.

### Multi-scene

• Identifies rain, snow, fog, backlight and flicker, making the camera suitable for more indoor and outdoor application scenarios.

### Self-adaption

• Based on the scene condition, AI SSA will adjust the image parameters such as exposure, lightness, or other specific image features to capture the highest quality images.



## SMD 4.0

- SMD, short for Smart Motion Detection, analyzes person and vehicle shapes based on motion detection and sends alarms only when a person or vehicle has been detected for intrusion.

- One key to enable Alarm triggered

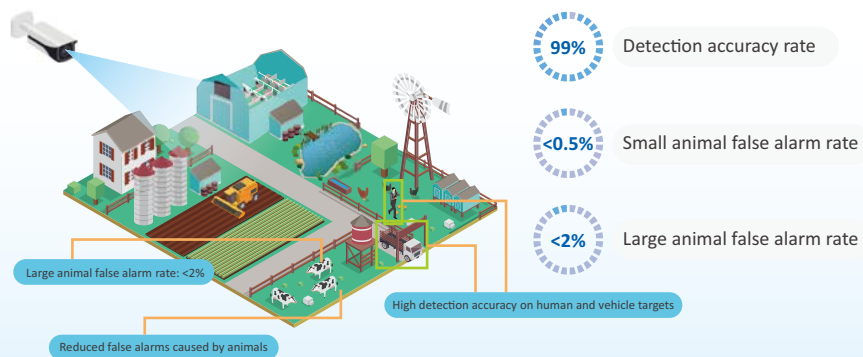


- False alarm rate: <1% Alarm filtered



### • Reduces false alarms caused by animals

- Equipped with new deep learning algorithm, SMD 4.0 is optimized to filter out small and large animals in the scene to avoid triggering false alarms.



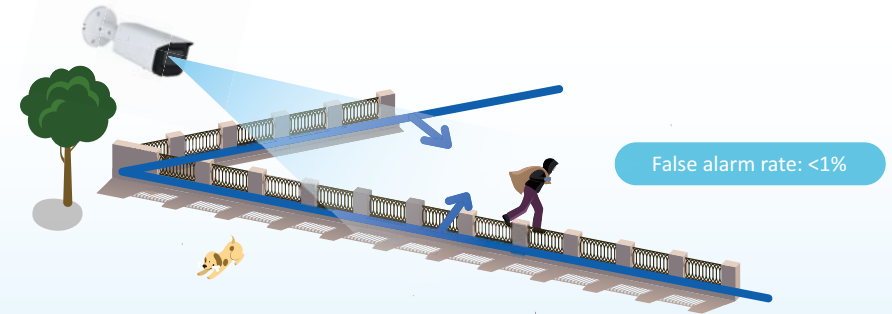
## Perimeter Protection

- The perimeter protection based on tripwire and area intrusion sends an alarm when unwanted movements triggered by a human/vehicle target occur, avoiding unnecessary false alarm.

- Traditional IVS Causes of false or missed alarms



- Perimeter Protection Alarm will be triggered only when a human or vehicle violates a rule





# WizSense Core Technologies

## Auto Tracking 3.0

### 4 Tracking Target Types

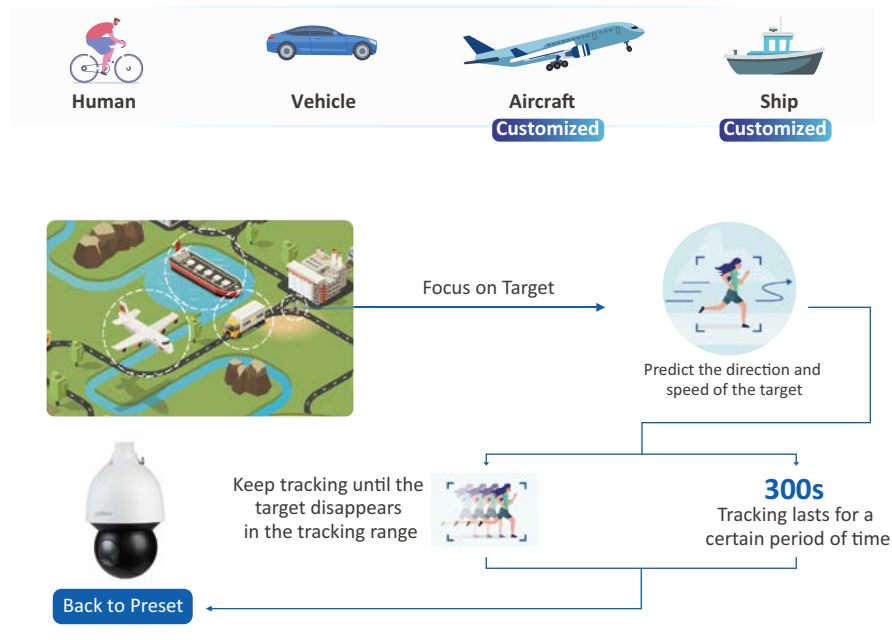
Auto Tracking 3.0 algorithm supports tracking of people and vehicles, as well as ships and aircrafts through customization.

#### • Accurate Tracking

The PTZ camera can track the complete movement of the target within the monitoring range, providing security personnel with ample information to locate the target in time.

#### • Clear Details

Auto Tracking 3.0 adopts several technologies that allow the security personnel to determine whether the target does any dangerous activities during the whole tracking process.



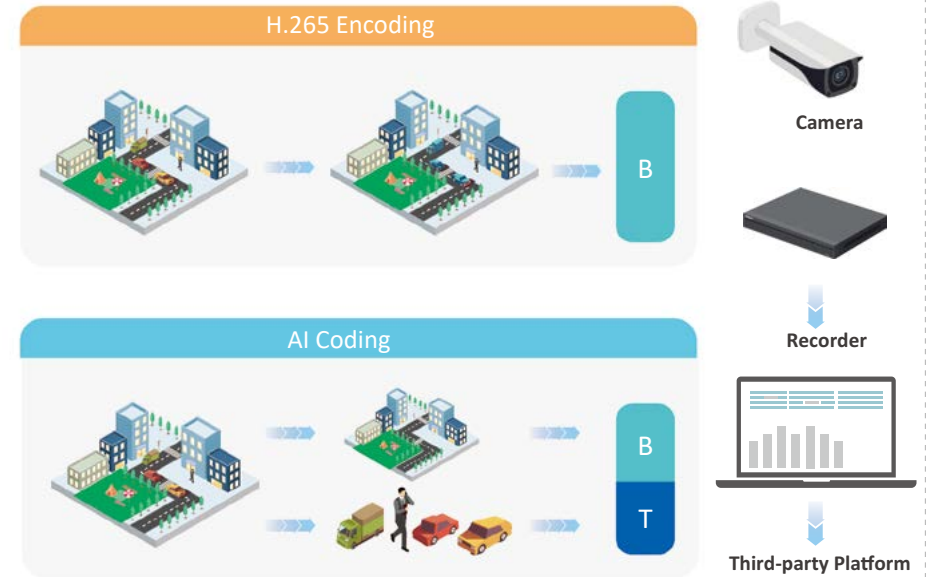
## AI Coding (IP Solution)

### • Saves Storage Space while Ensuring the Image Quality of Targets

Based on CBR (Constant Bit Rate), WizSense AI Coding dynamically allocates bit rate and puts emphasis on human and vehicle while encoding, ensuring high quality images of the target while saving more than 25% bit rate compared with H.265.

### • High Compatibility

Through CBR, AI Coding does not lose its decoding compatibility when integrated with third-party players or platforms.



# Full-color: Smart Dual-Light



Dahua Smart Dual-Light technology supports flexible switching between Full-color and IR modes to ensure colorful monitoring at night, without any of the downsides of continuous warm light such as light pollution. Moreover, it adopts smart algorithm to accurately detect human targets, avoiding false alarms and recording the full-color video and information of key events.



## Three Illumination Modes

- Warm Light Mode
  - Warm light is ON throughout the whole process
  - Records full-color video and captures event details
- IR Mode
  - IR light is ON throughout the whole process
  - Environment-friendly and reduces light pollution
- Smart Illumination Mode



## Mobile App Control

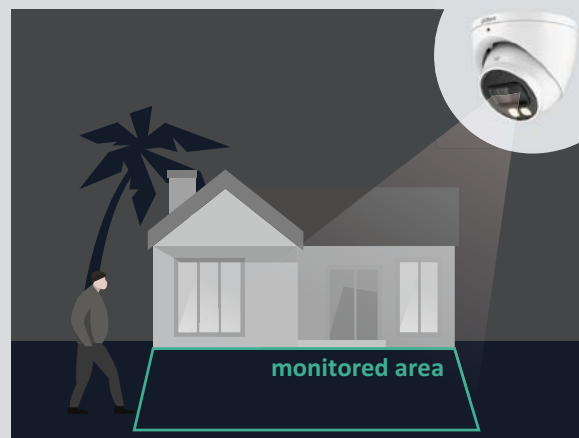
- Easily switch illumination mode using the mobile app



## SMD Plus / Perimeter Protection

- Filter out false alarm while focusing on human and vehicle targets

Infrared Light is ON:  
Black & White Video



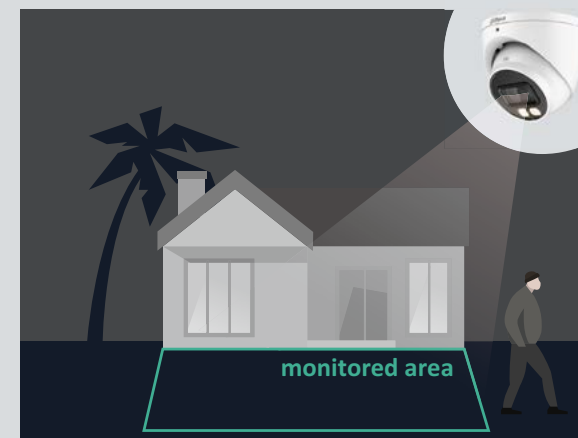
Human target is out of the monitored area

Warm Light Turns ON:  
Full-color Monitoring



Human target is detected by the camera

Infrared Light Turns ON:  
Black & White Video



Human target leaves the monitored area



# 3-in-1 Camera TiOC 2.0

Your Effective Deterrent  
Against Intruders



## TiOC 2.0

With its foundation from the previous generation of TiOC, a variety of new innovative technologies are introduced in the latest TiOC 2.0 for the first time, achieving technological breakthroughs and quality improvements in illuminators, audio and images. It can also be integrated with alarms through software upgrades. It provides better ecosystem that offers more convenient operation and better user experience.



### Smart Dual-Light

- Smart Illumination (Default): Switch between IR Mode and Warm Light Mode when a target is detected.
- IR Mode (Optional): Only IR illuminator is on. Less use of supplementary warm light means less light pollution in the area.
- Warm Light Mode (Optional): Only warm light is on. It is suitable for application scenarios that require color footages.



### Accurate Alarm

- TiOC offers accurate alarms that focus on human and vehicle targets, and filters out non-target objects such as animals, leaves and car headlights. While keeping false alarm rate under 1%, its powerful AI algorithms also delivers a quicker, more accurate and longer range motion detection.



### Active Deterrence

- Red and Blue Light; Enhanced Sound Alarm; Real-time Notification.



# Integrated Off-grid Security

Dahua Integrated Off-grid Security solution combines 4G network transmission technology with video surveillance (including AI functions), and applies solar power technology to form an integrated off-grid monitoring system. It is suitable for non-power and grid-free environments, and brings users more comprehensive, accurate and intelligent monitoring deployment solutions.



## No extra network cable and power cord connection required

- The monitoring equipment is powered by the solar power generation system, without any power system cables; The built-in 4G module of the camera is used for remote transmission of monitoring data without any network cable connection.



## Excellent performance and long standby time

- Monocrystalline silicon solar panel and MPPT solar controller are utilized, providing higher conversion efficiency. It is equipped with high-performance lithium battery and low-power 4G camera. It can also support ultra long standby without any light. It is suitable for various application scenarios that require off-grid monitoring.



## High protection, all-weather operation

- The lithium-ion battery, controller and other key components are provided with structural protection, meeting the protection grade of IP66. It also has IP67 rating for excellent lightning protection performance. The overall structure is firm and stable and is specifically designed for outdoor use, making it ideal for all-weather monitoring.





# Thermal

Thermal camera is the ideal choice for users who require high performance but have limited budget. With its small size and dual spectrum with powerful combination of visible light and thermal imaging, this series integrates advanced Dahua image analysis and intelligent algorithms, providing a one-stop solution for small and medium-sized monitoring applications.



## Temperature Measurement

- Thermal cameras can monitor temperature changes in real time and locate the problem accurately ( $\pm 2^{\circ}\text{C}$ ).
- It can be used in early indoor fire prevention and prevent fire by monitoring abnormal temperature in various scenarios (e.g. warehouse).



## Smoking Detection

- Dual Spectrum Combination: the visible light channel detects human targets (head) and the thermal channel detects cigarettes, eliminating non-target objects such as cigarette lighter or boiled water.

# NETWORK CAMERAS





# WizSense 3 Series Network Camera

With advanced deep learning algorithm, the Dahua WizSense 3 Series network camera supports intelligent functions, such as Perimeter Protection and Smart Motion Detection. With Starlight technology, this camera series provides a better image effect under low light condition.



## SMD

With intelligent algorithm, the Dahua Smart Motion Detection technology can categorize the targets that trigger the alarm, and filter out false alarms triggered by non-target objects to realize effective and accurate alarm.



## Quick Pick

Quick Pick technology can quickly identify human/vehicle targets of interest, which optimizes the search for relevant SMD events.



## AI SSA

AI Scene Self-adaption technology is based on deep learning algorithm that can intelligently identify multiple scenes, making the camera suitable for more indoor and outdoor application scenarios.








## Perimeter Protection

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







## WizSense 3 Series

### Vari-focal Bullet







Model	IPC-HFW3841T-ZAS-S2	IPC-HFW3841T-ZS-S2	IPC-HFW3541T-ZAS-S2	IPC-HFW3541T-ZS-S2	IPC-HFW3441T-ZAS-S2	IPC-HFW3441T-ZS-S2
Appearance						
Image Sensor	1/2.8" 8MP CMOS	1/2.8" 8MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS
Focal Length	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5
FOV-H	113°~31°	113°~31°	99°~28°	99°~28°	104°~29°	104°~29°
Min. Illumination	0.007 lux@F1.5 (Color, 30 IRE) 0.0007 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.007 lux@F1.5 (Color, 30 IRE) 0.0007 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.5 (Color, 30 IRE) 0.0005 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.5 (Color, 30 IRE) 0.0005 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.5 (Color, 30 IRE) 0.0005 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.5 (Color, 30 IRE) 0.0005 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	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Illumination Distance	60m (196.85ft) (IR)	60m (196.85ft) (IR)	60m (196.85ft) (IR)	60m (196.85ft) (IR)	60m (196.85ft) (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)	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Supported	Supported	Supported	Supported	Supported	Supported
AI Coding	Supported	Supported	Supported	Supported	Supported	Supported
AI SSA	Supported	Supported	Supported	Supported	Supported	Supported
Max. Resolution	8MP (3840×2160)	8MP (3840×2160)	5MP (2960×1668)	5MP (2960×1668)	4MP (2688×1520)	4MP (2688×1520)
Frame Rate	25/30 fps@8MP	25/30 fps@8MP	20 fps@5MP	20 fps@5MP	25/30 fps@4MP	25/30 fps@4MP
Multi-streaming	3 streams	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: 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	Built-in Mic, 1/1	Built-in Mic	Built-in Mic, 1/1	Built-in Mic	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. 256GB	Micro SD, Max. 256GB
Alarm In/Out	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	--	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	--	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	--
Ingress Protection	IP67, IK10 (optional)	IP67, IK10 (optional)	IP67, IK10 (optional)	IP67, IK10 (optional)	IP67, IK10 (optional)	IP67, IK10 (optional)
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)
Power	12V DC/POE (802.3af), max. 10.5W	12V DC/POE (802.3af), max. 10.5W	12V DC/POE (802.3af), max. 8.5W	12V DC/POE (802.3af), max. 8.5W	12V DC/POE (802.3af), max. 9.2W	12V DC/POE (802.3af), max. 9.2W
<b>Artificial Intelligence</b>						
SMD	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)
Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events

# NETWORK CAMERAS

## WizSense 3 Series

	Vari-focal Bullet			Vari-focal Dome		
Model	IPC-HFW3241T-ZAS-S2	IPC-HFW3241T-ZS-S2	IPC-HDBW3841R-ZAS-S2	IPC-HDBW3841R-ZS-S2	IPC-HDBW3541R-ZAS-S2	IPC-HDBW3541R-ZS-S2
Appearance						
Image Sensor	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 8MP CMOS	1/2.8" 8MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS
Focal Length	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5
FOV-H	109°~30°	109°~30°	109°~30°	109°~30°	114°~32°	114°~32°
Min. Illumination	0.002 lux@F1.5 (Color, 30 IRE) 0.0002 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.002 lux@F1.5 (Color, 30 IRE) 0.0002 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.007 lux@F1.5 (Color, 30 IRE) 0.0007 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.007 lux@F1.5 (Color, 30 IRE) 0.0007 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.5 (Color, 30 IRE) 0.0005 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.5 (Color, 30 IRE) 0.0005 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	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Illumination Distance	60m (196.85ft) (IR)	60m (196.85ft) (IR)	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)	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	Supported
AI Coding	Supported	Supported	Supported	Supported	Supported	Supported
AI SSA	Supported	Supported	Supported	Supported	Supported	Supported
Max. Resolution	1080P (1920x1080)	1080P (1920x1080)	8MP (3840x2160)	8MP (3840x2160)	5MP (2960x1668)	5MP (2960x1668)
Frame Rate	25/30 fps@2MP	25/30 fps@2MP	25/30 fps@8MP	25/30 fps@8MP	20 fps@5MP	20 fps@5MP
Multi-streaming	3 streams	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°~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	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	Built-in Mic, 1/1	Built-in Mic	Built-in Mic, 1/1	Built-in Mic	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. 256GB	Micro SD, Max. 256GB
Alarm In/Out	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	--	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	--	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	--
Ingress Protection	IP67, IK10 (optional)	IP67, IK10 (optional)	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)
Power	12V DC/POE (802.3af), Max. 7.7W	12V DC/POE (802.3af), Max. 7.7W	12V DC/POE (802.3af), Max. 10.5W	12V DC/POE (802.3af), Max. 10.5W	12V DC/POE (802.3af), Max. 10.5W	12V DC/POE (802.3af), Max. 10.5W
<b>Artificial Intelligence</b>						
SMD	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)
Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events

## WizSense 3 Series

	Vari-focal Dome				Vari-focal Eyeball	
Model	IPC-HDBW3441R-ZAS-S2	IPC-HDBW3441R-ZS-S2	IPC-HDBW3241R-ZAS-S2	IPC-HDBW3241R-ZS-S2	IPC-HDW3841T-ZS-S2	IPC-HDW3541T-ZS-S2
Appearance						
Image Sensor	1/3" 4MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 8MP CMOS	1/2.7" 5MP CMOS
Focal Length	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5
FOV-H	104°~29°	104°~29°	109°~30°	109°~30°	109°~30°	99°~28°
Min. Illumination	0.005 lux@F1.5 (Color, 30 IRE) 0.0005 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.5 (Color, 30 IRE) 0.0005 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.002 lux@F1.5 (Color, 30 IRE) 0.0002 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.002 lux@F1.5 (Color, 30 IRE) 0.0002 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.007 lux@F1.5 (Color, 30 IRE) 0.0007 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.5 (Color, 30 IRE) 0.0005 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	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Illumination Distance	40m (131.23ft) (IR)	40m (131.23ft) (IR)	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)	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	Supported
AI Coding	Supported	Supported	Supported	Supported	Supported	Supported
AI SSA	Supported	Supported	Supported	Supported	Supported	Supported
Max. Resolution	4MP (2688x1520)	4MP (2688x1520)	1080P (1920x1080)	1080P (1920x1080)	8MP (3840x2160)	5MP (2960x1668)
Frame Rate	25/30 fps@4MP	25/30 fps@4MP	25/30 fps@2MP	25/30 fps@2MP	25/30 fps@8MP	20 fps@5MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 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°~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	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	Built-in Mic, 1/1	Built-in Mic	Built-in Mic, 1/1	Built-in Mic	Built-in Mic	Built-in Mic
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	--	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	--	--	--
Ingress Protection	IP67, IK10	IP67, IK10	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~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)
Power	12V DC/POE (802.3af), Max. 9.2W	12V DC/POE (802.3af), Max. 9.2W	12V DC/POE (802.3af), Max. 7.7W	12V DC/POE (802.3af), Max. 7.7W	12V DC/POE (802.3af), Max. 10.2W	12V DC/POE (802.3af), Max. 10.2W
<b>Artificial Intelligence</b>						
SMD	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)
Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events

# NETWORK CAMERAS

## WizSense 3 Series

	Vari-focal Eyeball			Fixed Bullet		
Model	IPC-HDW3441T-ZS-S2	IPC-HDW3241T-ZS-S2	IPC-HFW3841E-AS-S2	IPC-HFW3841E-S-S2	IPC-HFW3541E-AS-S2	IPC-HFW3541E-S-S2
Appearance						
Image Sensor	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 8MP CMOS	1/2.8" 8MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS
Focal Length	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.8mm/F1.4 3.6mm/F1.4	2.8mm/F1.4 3.6mm/F1.4	2.8mm/F1.4 3.6mm/F1.4 6mm/F1.4	2.8mm/F1.4 3.6mm/F1.4 6mm/F1.4
FOV-H	104°~29°	109°~30°	107°/84°	107°/84°	111°/92°/57°	111°/92°/57°
Min. Illumination	0.005 lux@F1.5 (Color, 30 IRE) 0.0005 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.002 lux@F1.5 (Color, 30 IRE) 0.0002 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.007 lux@F1.4 (Color, 30 IRE) 0.0007 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)	0.007 lux@F1.4 (Color, 30 IRE) 0.0007 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (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	120dB	120dB	120dB	120dB	120dB
Illumination Distance	40m (131.23ft) (IR)	40m (131.23ft) (IR)	30m (98.43ft) (IR)	30m (98.43ft) (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)	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	Supported
AI Coding	Supported	Supported	Supported	Supported	Supported	Supported
AI SSA	Supported	Supported	Supported	Supported	Supported	Supported
Max. Resolution	4MP (2688x1520)	1080P (1920x1080)	8MP (3840x2160)	8MP (3840x2160)	5MP (2960x1668)	5MP (2960x1668)
Frame Rate	25/30 fps@4MP	25/30 fps@2MP	25/30 fps@8MP	25/30 fps@8MP	20 fps@5MP	20 fps@5MP
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°~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	Built-in Mic	Built-in Mic	Built-in Mic, 1/1	Built-in Mic	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. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	--	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	--	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	--
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	12V DC/POE (802.3af), Max. 8.5W	12V DC/POE (802.3af), Max. 7.7W	12V DC/POE (802.3af), Max. 7.2W	12V DC/POE (802.3af), Max. 7.2W	12V DC/POE (802.3af), Max. 6.5W	12V DC/POE (802.3af), Max. 6.5W
<b>Artificial Intelligence</b>						
SMD	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)
Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events



# NETWORK CAMERAS







## WizSense 3 Series

### Fixed Bullet

Model	IPC-HFW3441E-AS-S2	IPC-HFW3441E-S-S2	IPC-HFW3241E-AS-S2	IPC-HFW3241E-S-S2	IPC-HFW3441M-AS-I2	IPC-HFW3241M-AS-I2
Appearance						
Image Sensor	1/3" 4MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS
Focal Length	2.8mm/F1.4 3.6mm/F1.4 6mm/F1.4	2.8mm/F1.4 3.6mm/F1.4 6mm/F1.4	2.8mm/F1.4 3.6mm/F1.4 6mm/F1.4	2.8mm/F1.4 3.6mm/F1.4 6mm/F1.4	3.6mm/F1.6 6mm/F1.6 8mm/F1.6 12mm/F2.0	3.6mm/F1.6 6mm/F1.6 8mm/F1.6 12mm/F2.0
FOV-H	107°/88°/54°	107°/88°/54°	107°/88°/54°	107°/88°/54°	84°/52°/40°/24°	87°/54°/41°/26°
Min. Illumination	0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)	0.002 lux@F1.4 (Color, 30 IRE) 0.0002 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)	0.002 lux@F1.4 (Color, 30 IRE) 0.0002 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 Lux@F1.6 (Color, 30IRE) 0.0005 Lux@F1.6 (B/W, 30IRE) 0 Lux (Illuminator on)	0.002 Lux@F1.6 (Color, 30IRE) 0.0002 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	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Illumination Distance	50m (164.04ft) (IR)	50m (164.04ft) (IR)	50m (164.04ft) (IR)	50m (164.04ft) (IR)	80m (262.5ft) (IR)	80m (262.5ft) (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)	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	Supported
AI Coding	Supported	Supported	Supported	Supported	Supported	Supported
AI SSA	Supported	Supported	Supported	Supported	--	--
Max. Resolution	4MP (2688x1520)	4MP (2688x1520)	1080P (1920x1080)	1080P (1920x1080)	4MP (2688x1520)	1080P (1920x1080)
Frame Rate	25/30 fps@4MP	25/30 fps@4MP	25/30 fps@2MP	25/30 fps@2MP	25/30 fps@4MP	25/30 fps@2MP
Multi-streaming	3 streams	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: 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	Built-in Mic, 1/1	Built-in Mic	Built-in Mic, 1/1	Built-in Mic	1/1	1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	--	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	--	2 channel In: 5mA 3V-5VDC 2 channel Out: 300mA 12VDC	2 channel In: 5mA 3V-5VDC 2 channel Out: 300mA 12VDC
Ingress Protection	IP67	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)	-40°C~+60°C (-40°F~+140°F)
Power	12V DC/POE (802.3af), Max. 7.2W	12V DC/POE (802.3af), Max. 7.2W	12V DC/POE (802.3af), Max. 7.2W	12V DC/POE (802.3af), Max. 7.2W	12V DC/POE (802.3af), Max. 11.6W	12V DC/POE (802.3af), Max. 11W
<b>Artificial Intelligence</b>						
SMD	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0	SMD 3.0	SMD 3.0
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)
Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	--	--







# NETWORK CAMERAS

## WizSense 3 Series

	Fixed Bullet			Fixed Dome		
Model	IPC-HFW3441M-AS-SFC-I2	IPC-HDBW3841E-AS-S2	IPC-HDBW3841E-S-S2	IPC-HDBW3541E-AS-S2	IPC-HDBW3541E-S-S2	IPC-HDBW3441E-AS-S2
Appearance	 <b>WizSense</b> <b>Starlight</b>	 <b>WizSense</b> <b>Starlight</b>	 <b>WizSense</b> <b>Starlight</b>	 <b>WizSense</b> <b>Starlight</b>	 <b>WizSense</b> <b>Starlight</b>	 <b>WizSense</b> <b>Starlight</b>
Image Sensor	1/3" 4MP CMOS	1/2.8" 8MP CMOS	1/2.8" 8MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/3" 4MP CMOS
Focal Length	3.6mm/F1.6 6mm/F1.6 8mm/F1.6	2.8mm/F1.4 3.6mm/F1.4	2.8mm/F1.4 3.6mm/F1.4	2.8mm/F1.4 3.6mm/F1.4 6mm/F1.4	2.8mm/F1.4 3.6mm/F1.4 6mm/F1.4	2.8mm/F1.4 3.6mm/F1.4 6mm/F1.4
FOV-H	84°/52°/40°	107°/84°	107°/84°	111°/92°/57°	111°/92°/57°	107°/88°/54°
Min. Illumination	0.005 lux@F1.6 (Color, 30IRE) 0.0005 lux@F1.6 (B/W, 30IRE) 0 lux (Illuminator on)	0.007 lux@F1.4 (Color, 30 IRE) 0.0007 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)	0.007 lux@F1.4 (Color, 30 IRE) 0.0007 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (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	120dB	120dB	120dB	120dB	120dB
Illumination Distance	50m (164.0ft) (IR)	30m (98.43ft) (IR)	30m (98.43ft) (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 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)	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Supported	Supported	Supported	Supported	Supported	Supported
AI Coding	Supported	Supported	Supported	Supported	Supported	Supported
AI SSA	--	Supported	Supported	Supported	Supported	Supported
Max. Resolution	4MP (2688x1520)	8MP (3840x2160)	8MP (3840x2160)	5MP (2960x1668)	5MP (2960x1668)	4MP (2688x1520)
Frame Rate	25/30 fps@4MP	25/30 fps@8MP	25/30 fps@8MP	20 fps@5MP	20 fps@5MP	25/30 fps@4MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Angle Adjustment	--	Pan: 0°~355°; Tilt: 0°~75°; Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75°; Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75°; Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75°; Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75°; Rotation: 0°~355°
Compatibility	ONVIF (Profile S&G&T); CGI; 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	Built-in Mic, 1/1	Built-in Mic	Built-in Mic, 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 channel In: 5mA 3V-5VDC 2 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	--	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	--	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC
Ingress Protection	IP67	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	12V DC/POE (802.3af), Max. 11.6W	12V DC/POE (802.3af), Max. 9.7W	12V DC/POE (802.3af), Max. 9.7W	12V DC/POE (802.3af), Max. 9.7W	12V DC/POE (802.3af), Max. 9.7W	12V DC/POE (802.3af), Max. 8.3W
<b>Artificial Intelligence</b>						
SMD	SMD 3.0	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)
Quick Pick	--	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events







# NETWORK CAMERAS

## WizSense 3 Series

	Fixed Dome			Fixed Eyeball		
Model	IPC-HDBW3441E-S-S2	IPC-HDBW3241E-AS-S2	IPC-HDBW3241E-S-S2	IPC-HDW3841EM-S-S2	IPC-HDW3541EM-S2	IPC-HDW3441EM-S-S2
Appearance						
Image Sensor	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 8MP CMOS	1/2.7" 5MP CMOS	1/3" 4MP CMOS
Focal Length	2.8mm/F1.4 3.6mm/F1.4 6mm/F1.4	2.8mm/F1.4 3.6mm/F1.4 6mm/F1.4	2.8mm/F1.4 3.6mm/F1.4 6mm/F1.4	2.8mm/F1.4 3.6mm/F1.4	2.8mm/F1.4 3.6mm/F1.4 6mm/F1.4	2.8mm/F1.4 3.6mm/F1.4 6mm/F1.4
FOV-H	107°/88°/54°	107°/88°/54°	107°/88°/54°	107°/84°	97°/80°/50°	102°/84°/52°
Min. Illumination	0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)	0.002 lux@F1.4 (Color, 30 IRE) 0.0002 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)	0.002 lux@F1.4 (Color, 30 IRE) 0.0002 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)	0.007 lux@F1.4 (Color, 30 IRE) 0.0007 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (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	120dB	120dB	120dB	120dB	120dB
Illumination Distance	50m (164.04ft) (IR)	50m (164.04ft) (IR)	50m (164.04ft) (IR)	30m (98.43ft) (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)	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	Supported
AI Coding	Supported	Supported	Supported	Supported	Supported	Supported
AI SSA	Supported	Supported	Supported	Supported	Supported	Supported
Max. Resolution	4MP (2688×1520)	1080P (1920×1080)	1080P (1920×1080)	8MP (3840×2160)	5MP (2960×1668)	4MP (2688×1520)
Frame Rate	25/30 fps@4MP	25/30 fps@2MP	25/30 fps@2MP	25/30 fps@8MP	20 fps@5MP	25/30 fps@4MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Angle Adjustment	Pan: 0°~355°; Tilt: 0°~75°; Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75°; Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75°; Rotation: 0°~355°	Pan: 0°~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	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	Built-in Mic	Built-in Mic, 1/1	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	1 channel In: 5mA 3V5VDC 1 channel Out: 300mA 12VDC	--	--	--	--
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	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)	-40°C~-60°C (-40°F~+140°F)
Power	12V DC/POE (802.3af), Max. 8.3W	12V DC/POE (802.3af), Max. 7.7W	12V DC/POE (802.3af), Max. 7.7W	12V DC/POE (802.3af), Max. 8.9W	12V DC/POE (802.3af), Max. 8.9W	12V DC/POE (802.3af), Max. 7.9W
<b>Artificial Intelligence</b>						
SMD	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)
Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events







# NETWORK CAMERAS

## WizSense 3 Series

	Fixed Eyeball	Wedge Dome			Wide-angle	
Model	IPC-HDW3241EM-S-S2	IPC-HDBW3541F-AS-S2	IPC-HDBW3441F-AS-S2	IPC-HDBW3241F-AS-S2	IPC-HFW3441T-AS-P	IPC-HDBW3441R-AS-P
Appearance	 <b>WizSense</b> <b>Starlight</b>	 <b>WizSense</b> <b>Starlight</b>	 <b>WizSense</b> <b>Starlight</b>	 <b>WizSense</b> <b>Starlight</b>	 <b>WizSense</b> <b>Starlight</b>	 <b>WizSense</b> <b>Starlight</b>
Image Sensor	1/2.8" 2MP CMOS	1/2.7" 5MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.7" 4MP CMOS	1/2.7" 4MP CMOS
Focal Length	2.8mm/F1.4 3.6mm/F1.4 6mm/F1.4	2.8mm/F1.4 3.6mm/F1.4 6mm/F1.4	2.1mm/F2.0 2.8mm/F1.4 3.6mm/F1.4 6mm/F1.4	2.1mm/F2.0 2.8mm/F1.4 3.6mm/F1.4 6mm/F1.4	2.1mm/F2.0	2.1mm/F2.0
FOV-H	107°/88°/54°	111°/92°/57°	137°/102°/84°/52°	137°/107°/88°/54°	180° (LDC is disabled) 170° (LDC is enabled by default)	180° (LDC is disabled) 170° (LDC is enabled by default)
Min. Illumination	0.002 lux@F1.4 (Color, 30 IRE) 0.0002 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE) 0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)	0.002 lux@F1.4 (Color, 30 IRE) 0.0002 lux@F1.4 (B/W, 30 IRE) 0.005 lux@F2.0 (Color, 30 IRE) 0.0005 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)	0.01 lux@F2.0 (Color, 30 IRE) 0.001 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	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Illumination Distance	50m (164.04ft) (IR)	30m (98.43ft) (IR)	30m (98.43ft) (IR)	30m (98.43ft) (IR)	20m (65.62ft) (IR)	15m (49.21ft) (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)	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Supported	Supported	Supported	Supported	Supported	Supported
AI Coding	Supported	Supported	Supported	Supported	Supported	Supported
AI SSA	Supported	Supported	Supported	Supported	--	--
Max. Resolution	1080P (1920x1080)	5MP (2960x1668)	4MP (2688x1520)	1080P (1920x1080)	4MP (2688x1520)	4MP (2688x1520)
Frame Rate	25/30 fps@2MP	20 fps@5MP	25/30 fps@4MP	25/30 fps@2MP	25/30 fps@4MP	25/30 fps@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°~355°; Tilt: -20°~70°; Rotation: 0°~355°	Pan: 0°~355°; Tilt: -20°~70°; Rotation: 0°~355°	Pan: 0°~355°; Tilt: -20°~70°; Rotation: 0°~355°	Pan: 0°~360°; Tilt: 0°~90°; Rotation: 0°~360°	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	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	Built-in Mic	Built-in Mic, 1/1	Built-in Mic, 1/1	Built-in Mic, 1/1	Built-in Mic, 1/1	Built-in Mic, 1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel out: 1,000mA 30V DC/500mA 50V DC	1 channel In: 5mA 3V-5VDC 1 channel out: 1,000mA 30V DC/500mA 50V DC
Ingress Protection	IP67	IP67, IK10	IP67, IK10	IP67, IK10	IP67	IP67, IK10
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)
Power	12V DC/POE (802.3af), Max. 6.9W	12V DC/POE (802.3af), Max. 7.2W	12V DC/POE (802.3af), Max. 7.2W	12V DC/POE (802.3af), Max. 7.2W	12V DC/POE (802.3af), Max. 6.5W	12V DC/POE (802.3af), Max. 7.7W
<b>Artificial Intelligence</b>						
SMD	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0	SMD 3.0	SMD 3.0
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)
Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	--	--

# NETWORK CAMERAS

## WizSense 3 Series

	TiOC 2.0 Vari-focal Bullet			TiOC 2.0 Vari-focal Dome		
Model	IPC-HFW3849T1-ZAS-PV	IPC-HFW3549T1-ZAS-PV	IPC-HFW3449T1-ZAS-PV	IPC-HDBW3849R1-ZAS-PV	IPC-HDBW3549R1-ZAS-PV	IPC-HDBW3449R1-ZAS-PV
Appearance						
Image Sensor	1/2.8" 8MP CMOS	1/2.7" 5MP CMOS	1/2.7" 4MP CMOS	1/2.8" 8MP CMOS	1/2.7" 5MP CMOS	1/2.7" 4MP CMOS
Focal Length	2.7mm~13.5mm/F1.0	2.7mm~13.5mm/F1.0	2.7mm~13.5mm/F1.0	2.7mm~13.5mm/F1.0	2.7mm~13.5mm/F1.0	2.7mm~13.5mm/F1.0
FOV-H	108°~34°	113°~36°	103°~33°	108°~34°	113°~36°	103°~33°
Min. Illumination	0.004 lux@F1.0 (Color, 30 IRE) 0.0004 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)	0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)	0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)	0.004 lux@F1.0 (Color, 30 IRE) 0.0004 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)	0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)	0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (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	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Illumination Distance	50m (164.04ft) (IR) 40m (131.23ft) (Warm light)	50m (164.04ft) (IR) 40m (131.23ft) (Warm light)	50m (164.04ft) (IR) 40m (131.23ft) (Warm light)	50m (164.04ft) (IR) 40m (131.23ft) (Warm light)	50m (164.04ft) (IR) 40m (131.23ft) (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.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	Supported
AI Coding	Supported	Supported	Supported	Supported	Supported	Supported
AI SSA	Supported	Supported	Supported	Supported	Supported	Supported
Max. Resolution	8MP (3840×2160)	5MP (2960×1668)	4MP (2688×1520)	8MP (3840×2160)	5MP (2960×1668)	4MP (2688×1520)
Frame Rate	25/30 fps@8MP	20 fps@5MP	25/30 fps@4MP	25/30 fps@8MP	20 fps@5MP	25/30 fps@4MP
Multi-streaming	3 streams	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: 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	Built-in Dual Mics, Built-in Speaker, 1/1	Built-in Dual Mics, Built-in Speaker, 1/1	Built-in Dual Mics, Built-in Speaker, 1/1	Built-in Dual Mics, Built-in Speaker, 1/1	Built-in Dual Mics, Built-in Speaker, 1/1	Built-in Dual Mics, Built-in 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	Micro SD, Max. 256GB
Alarm In/Out	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC
Ingress Protection	IP67	IP67	IP67	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)
Power	12V DC/POE (802.3af), Max. 9.8W	12V DC/POE (802.3af), Max. 8.7W	12V DC/POE (802.3af), Max. 8.7W	12V DC/POE (802.3af), Max. 10.1W	12V DC/POE (802.3af), Max. 9W	12V DC/POE (802.3af), Max. 9W
<b>Artificial Intelligence</b>						
SMD	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)
Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events

# NETWORK CAMERAS

## WizSense 3 Series

### TiOC 2.0 Fixed-focal Bullet (S4 Version)






### TiOC 2.0 Fixed-focal Eyeball (S4 Version)

Model	IPC-HFW3849T1-AS-PV	IPC-HFW3549T1-AS-PV	IPC-HFW3449T1-AS-PV	IPC-HDW3849H-AS-PV	IPC-HDW3549H-AS-PV	IPC-HDW3449H-AS-PV
Appearance						
Image Sensor	1/2.8" 8MP CMOS	1/2.7" 5MP CMOS	1/2.7" 4MP CMOS	1/2.8" 8MP CMOS	1/2.7" 5MP CMOS	1/2.7" 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	2.8mm/F1.0 3.6mm/F1.0	2.8mm/F1.0 3.6mm/F1.0
FOV-H	106°/85°	101°/82°	101°/82°	106°/85°	97°/78°	101°/82°
Min. Illumination	0.004 lux@F1.0 (Color, 30 IRE) 0.0004 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)	0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)	0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)	0.004 lux@F1.0 (Color, 30 IRE) 0.0004 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)	0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)	0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (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	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Illumination Distance	30m (98.43ft) (IR) 30m (98.43ft) (Warm light)	30m (98.43ft) (IR) 30m (98.43ft) (Warm light)	30m (98.43ft) (IR) 30m (98.43ft) (Warm light)	30m (98.43ft) (IR) 30m (98.43ft) (Warm light)	30m (98.43ft) (IR) 30m (98.43ft) (Warm light)	30m (98.43ft) (IR) 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)	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	Supported
AI Coding	Supported	Supported	Supported	Supported	Supported	Supported
AI SSA	Supported	Supported	Supported	Supported	Supported	Supported
Max. Resolution	8MP (3840×2160)	5MP (2960×1668)	4MP (2688×1520)	8MP (3840×2160)	5MP (2960×1668)	4MP (2688×1520)
Frame Rate	25/30 fps@8MP	20 fps@5MP	25/30 fps@4MP	25/30 fps@8MP	20 fps@5MP	25/30 fps@4MP
Multi-streaming	3 streams	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: 0°~90°; 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	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	Built-in Dual Mics, Built-in Speaker, 1/1	Built-in Dual Mics, Built-in Speaker, 1/1	Built-in Dual Mics, Built-in Speaker, 1/1	Built-in Dual Mics, Built-in Speaker, 1/1	Built-in Dual Mics, Built-in Speaker, 1/1	Built-in Dual Mics, Built-in 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	Micro SD, Max. 256GB
Alarm In/Out	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC
Ingress Protection	IP67	IP67	IP67	IP67	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)	-40°C~+60°C (-40°F~+140°F)
Power	12V DC/POE (802.3af), Max. 9.1W	12V DC/POE (802.3af), Max. 8.2W	12V DC/POE (802.3af), Max. 8.2W	12V DC/POE (802.3af), Max. 10.2W	12V DC/POE (802.3af), Max. 8.8W	12V DC/POE (802.3af), Max. 8.8W
<b>Artificial Intelligence</b>						
SMD	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition) With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	Tripwire; Intrusion (Human/Vehicle Target Recognition) With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	Tripwire; Intrusion (Human/Vehicle Target Recognition) With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	Tripwire; Intrusion (Human/Vehicle Target Recognition) With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	Tripwire; Intrusion (Human/Vehicle Target Recognition) With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	Tripwire; Intrusion (Human/Vehicle Target Recognition) With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events
Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events

# NETWORK CAMERAS








## WizSense 3 Series

### Fixed-focal Bullet

Model	IPC-HFW3549E-AS-LED	IPC-HFW3449E-AS-LED	IPC-HFW3449E-AS-NI	IPC-HFW3249E-AS-LED	IPC-HFW3249E-AS-NI
Appearance					
Image Sensor	1/2.7" 5MP CMOS	1/2.7" 4MP CMOS	1/2.7" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP 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	2.8mm/F1.0 3.6mm/F1.0
FOV-H	98°/77°	103°/80°	103°/80°	107°/84°	107°/84°
Min. Illumination	0.003 Lux@F1.0	0.003 Lux@F1.0	0.003 Lux@F1.0	0.0015 Lux@F1.0	0.0015 Lux@F1.0
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	30 m (98.4 ft) (Warm light)	30 m (98.4 ft) (Warm light)	--	30 m (98.4 ft) (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)	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Supported	Supported	Supported	Supported	Supported
AI Coding	Supported	Supported	Supported	Supported	Supported
AI SSA	--	--	--	--	--
Max. Resolution	5MP (2592×1944)	4MP (2688×1520)	4MP (2688×1520)	1080P (1920×1080)	1080P (1920×1080)
Frame Rate	25/30 fps@5MP	25/30 fps@4MP	25/30 fps@4MP	25/30 fps@1080P	25/30 fps@1080P
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: 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. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC
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, Max. 8.4W	12V DC/POE, Max. 8.4W	12V DC/POE, Max. 4.4W	12V DC/POE, Max. 8.1W	12V DC/POE, Max. 4.3W
<b>Artificial Intelligence</b>					
SMD	SMD 3.0	SMD 3.0	SMD 3.0	SMD 3.0	SMD 3.0
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)
Intelligent Search	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos

# NETWORK CAMERAS

## WizSense 3 Series

	Fixed-focal Dome			Fixed-focal Eyeball			
Model	IPC-HDBW3449E-AS-NI	IPC-HDBW3249E-AS-NI	IPC-HDW3549TM-AS-LED	IPC-HDW3449TM-AS-LED	IPC-HDW3449TM-AS-NI	IPC-HDW3249TM-AS-LED	IPC-HDW3249TM-AS-NI
Appearance							
Image Sensor	1/2.7" 4MP CMOS	1/2.8" 2MP CMOS	1/2.7" 5MP CMOS	1/2.7" 4MP CMOS	1/2.7" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP 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	2.8mm/F1.0 3.6mm/F1.0	2.8mm/F1.0 3.6mm/F1.0	2.8mm/F1.0 3.6mm/F1.0
FOV-H	103°/80°	107°/84°	98°/77°	103°/80°	103°/80°	107°/84°	107°/84°
Min. Illumination	0.003 Lux@F1.0	0.0015 Lux@F1.0	0.003 Lux@F1.0	0.003 Lux@F1.0	0.003 Lux@F1.0	0.0015 Lux@F1.0	0.0015 Lux@F1.0
Day/Night	Color/B/W	Color/B/W	Color/B/W	Color/B/W	Color/B/W	Color/B/W	Color/B/W
WDR	120dB	120dB	120dB	120dB	120dB	120dB	120dB
Illumination Distance	--	--	30m (98.4ft) (Warm Light)	30m (98.4ft) (Warm Light)	--	30m (98.4ft) (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)	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	Supported	Supported
AI Coding	Supported	Supported	Supported	Supported	Supported	Supported	Supported
AI SSA	--	--	--	--	--	--	--
Max. Resolution	4MP (2688×1520)	1080P (1920×1080)	5MP (2592×1944)	4MP (2688×1520)	4MP (2688×1520)	1080P (1920×1080)	1080P (1920×1080)
Frame Rate	25/30 fps@4MP	25/30 fps@2MP	20 fps@5MP	25/30 fps@4MP	25/30 fps@4MP	25/30 fps@2MP	25/30 fps@2MP
Multi-streaming	3 streams	3 streams	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: 0°~78°; Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78°; Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78°; Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78°; Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78°; Rotation: 0°~360°
Compatibility	ONVIF (Profile S&G&T); CGI; 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	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	1/1	1/1	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	1 channel In: 5mA 3V-5VDC 1 channel Out: 300mA 12VDC	--	--	--	--	--
Ingress Protection	IP67, IK10	IP67, IK10	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)	-40°C~+60°C(-40°F~+140°F)	-40°C~+60°C(-40°F~+140°F)
Power	12V DC/POE (802.3af), Max. 4.4W	12V DC/POE (802.3af), Max. 3.9W	12V DC/POE (802.3af), Max. 8.4W	12V DC/POE (802.3af), Max. 8.5W	12V DC/POE (802.3af), Max. 4.5W	12V DC/POE (802.3af), Max. 8.1W	12V DC/POE (802.3af), Max. 4.1W
<b>Artificial Intelligence</b>							
SMD	SMD 3.0	SMD 3.0	SMD 3.0	SMD 3.0	SMD 3.0	SMD 3.0	SMD 3.0
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)
Intelligent Search	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos





# WizSense 2 Series Network Camera

With advanced deep learning algorithm, Dahua WizSense 2 Series network camera supports intelligent functions, such as Perimeter Protection and Smart Motion Detection. With Starlight technology, this camera series provides clear and vivid images even in environments with low illumination.



## SMD Plus

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger the motion detection and filter out alarms triggered by irrelevant objects, realizing effective and accurate alarm system.



## WDR

With advanced Wide Dynamic Range (WDR) technology, the Dahua network camera can provide clear details of the monitored scene with strong brightness contrast. Clear videos can be captured in both bright and dark areas, even in environments with high brightness or with backlight shadow.



## Perimeter Protection

With deep learning algorithm, the Dahua Perimeter Protection technology can recognize human and vehicle targets accurately. In restricted areas (e.g. pedestrian area, parking zones), false alarms are largely reduced in intelligent detection based on target type (e.g. tripwire, intrusion).









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

With advanced scene-adaptive rate control algorithm, the Dahua smart encoding technology realizes higher encoding efficiency than H.265 and H.264, providing high quality videos and reducing storage and transmission costs.

# NETWORK CAMERAS

## WizSense 2 Series

### Vari-focal Bullet







Model	IPC-HFW2841T-ZS	IPC-HFW2841T-ZAS	IPC-HFW2541T-ZS	IPC-HFW2541T-ZAS	IPC-HFW2441T-ZS	IPC-HFW2441T-ZAS
Appearance						
Image Sensor	1/2.7" 8MP CMOS	1/2.7" 8MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS	1/2.9" 4MP CMOS	1/2.9" 4MP CMOS
Focal Length	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5
FOV-H	113°~31°	113°~31°	100°~30°	100°~30°	104°~29°	104°~29°
Min. Illumination	0.008 lux@F1.5 (Color, 30 IRE) 0.0008 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.008 lux@F1.5 (Color, 30 IRE) 0.0008 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.5 (Color, 30 IRE) 0.0005 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.5 (Color, 30 IRE) 0.0005 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.008 lux@F1.5 (Color, 30 IRE) 0.0008 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.008 lux@F1.5 (Color, 30 IRE) 0.0008 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	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Illumination Distance	60m (196.85 ft) (IR)	60m (196.85 ft) (IR)	60m (196.85 ft) (IR)	60m (196.85 ft) (IR)	60m (196.85 ft) (IR)	60m (196.85 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)	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Supported	Supported	Supported	Supported	Supported	Supported
Max. Resolution	8MP (3840×2160)	8MP (3840×2160)	5MP (2592×1944)	5MP (2592×1944)	4MP (2688×1520)	4MP (2688×1520)
Frame Rate	20fps@8MP	20fps@8MP	20fps@5MP	20fps@5MP	25/30 fps@4MP (2560×1440)	25/30 fps@4MP (2560×1440)
Multi-streaming	2 streams	2 streams	2 streams	2 streams	2 streams	2 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°~75°; Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~75°; 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	Built-in Mic	Built-in Mic, 1/1	--	1/1	Built-in Mic	Built-in Mic, 1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	1 channel in: 5mA 3V~5V DC 1 channel out: 300mA 12V DC	--	1 channel in: 5mA 3V~5V DC 1 channel out: 300mA 12V DC	--	1 channel in: 5mA 3V~5V DC 1 channel out: 300mA 12V DC
Ingress Protection	IP67, IK10 (optional)	IP67, IK10 (optional)	IP67	IP67	IP67, IK10 (optional)	IP67, IK10 (optional)
Working Temperature	-30 °C~+60 °C (-22 °F~+140 °F)	-30 °C~+60 °C (-22 °F~+140 °F)	-30 °C~+60 °C (-22 °F~+140 °F)	-30 °C~+60 °C (-22 °F~+140 °F)	-30 °C~+60 °C (-22 °F~+140 °F)	-30 °C~+60 °C (-22 °F~+140 °F)
Power	12V DC/PoE (802.3af), Max. 9.6W	12V DC/PoE (802.3af), Max. 9.7W	12V DC/PoE (802.3af), Max. 9.7W	12V DC/PoE (802.3af), Max. 9.7W	12V DC/PoE (802.3af), Max. 10.1W	12V DC/PoE (802.3af), Max. 10.2W
<b>Artificial Intelligence</b>						
SMD	SMD Plus	SMD Plus	SMD Plus	SMD Plus	SMD Plus	SMD Plus
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)
Intelligent Search	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos

## WizSense 2 Series

	Vari-focal Bullet		Vari-focal Dome			
Model	IPC-HFW2241T-ZS	IPC-HFW2241T-ZAS	IPC-HDBW2841R-ZS	IPC-HDBW2841R-ZAS	IPC-HDBW2541R-ZS	IPC-HDBW2541R-ZAS
Appearance	 <b>Starlight+</b>	 <b>Starlight+</b>	 <b>Starlight</b>	 <b>Starlight</b>	 <b>Starlight</b>	 <b>Starlight</b>
Image Sensor	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.7" 8MP CMOS	1/2.7" 8MP CMOS	1/2.7" 5MP CMOS	1/2.7" 5MP CMOS
Focal Length	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5
FOV-H	108°~30°	108°~30°	113°~31°	113°~31°	100°~30°	100°~30°
Min. Illumination	0.002 lux@F1.5 (Color, 30 IRE) 0.0002 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.002 lux@F1.5 (Color, 30 IRE) 0.0002 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.008 lux@F1.5 (Color, 30 IRE) 0.0008 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.008 lux@F1.5 (Color, 30 IRE) 0.0008 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.5 (Color, 30 IRE) 0.0005 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.5 (Color, 30 IRE) 0.0005 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	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Illumination Distance	60m (196.85 ft) (IR)	60m (196.85 ft) (IR)	40m (131.23 ft) (IR)	40m (131.23 ft) (IR)	40m (131.23 ft) (IR)	40m (131.23 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)	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Supported	Supported	Supported	Supported	Supported	Supported
Max. Resolution	2MP (1920×1080)	2MP (1920×1080)	8MP (3840×2160)	8MP (3840×2160)	5MP (2592×1944)	5MP (2592×1944)
Frame Rate	25/30fps@2MP	25/30fps@2MP	20fps@8MP	20fps@8MP	20fps@5MP	20fps@5MP
Multi-streaming	2 streams	2 streams	2 streams	2 streams	2 streams	2 streams
Angle Adjustment	Pan: 0°~360°; Tilt: 0°~90°; Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~90°; Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~67°; Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~67°; Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75°; Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75°; 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	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	Built-in Mic	Built-in Mic, 1/1	Built-in Mic	Built-in Mic, 1/1	--	Built-in Mic, 1/1
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	1 channel in: 5mA 3V~5V DC 1 channel out: 300mA 12V DC	--	1 channel in: 5mA 3V~5V DC 1 channel out: 300mA 12V DC	--	1 channel in: 5mA 3V~5V DC 1 channel out: 300mA 12V DC
Ingress Protection	IP67, IK10 (optional)	IP67, IK10 (optional)	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-30 °C~+60 °C (-22 °F~+140 °F)	-30 °C~+60 °C (-22 °F~+140 °F)	-30 °C~+60 °C (-22 °F~+140 °F)	-30 °C~+60 °C (-22 °F~+140 °F)	-30 °C~+60 °C (-22 °F~+140 °F)	-30 °C~+60 °C (-22 °F~+140 °F)
Power	12V DC/PoE (802.3af), Max. 9.8W	12V DC/PoE (802.3af), Max. 9.9W	12V DC/PoE (802.3af), Max. 7.2W	12V DC/PoE (802.3af), Max. 7.3W	12V DC/PoE (802.3af), Max. 8.1W	12V DC/PoE (802.3af), Max. 8.1W
<b>Artificial Intelligence</b>						
SMD	SMD Plus	SMD Plus	SMD Plus	SMD Plus	SMD Plus	SMD Plus
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)
Intelligent Search	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos

# NETWORK CAMERAS

## WizSense 2 Series

	Vari-focal Dome				Vari-focal Eyeball	
Model	IPC-HDBW2441R-ZS	IPC-HDBW2441R-ZAS	IPC-HDBW2241R-ZS	IPC-HDBW2241R-ZAS	IPC-HDW2841T-ZS	IPC-HDW2541T-ZS
Appearance	 <b>Wiz Sense</b> Starlight	 <b>Wiz Sense</b> Starlight	 <b>Wiz Sense</b> Starlight+	 <b>Wiz Sense</b> Starlight+	 <b>Wiz Sense</b> Starlight	 <b>Wiz Sense</b> Starlight
Image Sensor	1/2.9" 4MP CMOS	1/2.9" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.7" 8MP CMOS	1/2.7" 5MP CMOS
Focal Length	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5
FOV-H	104°~29°	104°~29°	108°~30°	108°~30°	113°~31°	100°~30°
Min. Illumination	0.008 lux@F1.5 (Color, 30 IRE) 0.0008 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.008 lux@F1.5 (Color, 30 IRE) 0.0008 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.002 lux@F1.5 (Color, 30 IRE) 0.0002 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.002 lux@F1.5 (Color, 30 IRE) 0.0002 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.008 lux@F1.5 (Color, 30 IRE) 0.0008 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.005 lux@F1.5 (Color, 30 IRE) 0.0005 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	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Illumination Distance	40m (131.23 ft) (IR)	40m (131.23 ft) (IR)	40m (131.23 ft) (IR)	40m (131.23 ft) (IR)	40m (131.23 ft) (IR)	40m (131.23 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)	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Supported	Supported	Supported	Supported	Supported	Supported
Max. Resolution	4MP (2688x1520)	4MP (2688x1520)	2MP (1920x1080)	2MP (1920x1080)	8MP (3840x2160)	5MP (2592x1944)
Frame Rate	25/30 fps@4MP (2560x1440)	25/30 fps@4MP (2560x1440)	25/30fps@2MP	25/30fps@2MP	20fps@8MP	20fps@5MP
Multi-streaming	2 streams	2 streams	2 streams	2 streams	2 streams	2 streams
Angle Adjustment	Pan: 0°~355°; Tilt: 0°~67°; Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~67°; Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~67°; Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~67°; Rotation: 0°~355°	Pan: 0°~360°; Tilt: 0°~78°; Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78°; Rotation: 0°~360°
Compatibility	ONVIF (Profile S&G&T); CGI; 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	Built-in Mic	Built-in Mic, 1/1	Built-in Mic	Built-in Mic, 1/1	Built-in Mic	Built-in Mic
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	1 channel in: 5mA 3V~5V DC 1 channel out: 300mA 12V DC	--	1 channel in: 5mA 3V~5V DC 1 channel out: 300mA 12V DC	--	--
Ingress Protection	IP67, IK10	IP67, IK10	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~+60 °C (-22 °F~+140 °F)	-30 °C~+60 °C (-22 °F~+140 °F)	-30 °C~+60 °C (-22 °F~+140 °F)	-30 °C~+60 °C (-22 °F~+140 °F)
Power	12V DC/PoE (802.3af), Max. 7.6W	12V DC/PoE (802.3af), Max. 7.7W	12V DC/PoE (802.3af), Max. 7.1W	12V DC/PoE (802.3af), Max. 7.2W	12V DC/PoE (802.3af), Max. 7.6W	12V DC/PoE (802.3af), Max. 6.4W
<b>Artificial Intelligence</b>						
SMD	SMD Plus	SMD Plus	SMD Plus	SMD Plus	SMD Plus	SMD Plus
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)
Intelligent Search	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos







# NETWORK CAMERAS

## WizSense 2 Series

	Vari-focal Eyeball		Fixed-focal Bullet			
Model	IPC-HDW2441T-ZS	IPC-HDW2241T-ZS	DH-IPC-HFW2841S-S	IPC-HFW2541E-S	IPC-HFW2441S-S	IPC-HFW2241S-S
Appearance	 Starlight	 Starlight+	 Starlight	 Starlight	 Starlight	 Starlight+
Image Sensor	1/2.9" 4MP CMOS	1/2.8" 2MP CMOS	1/2.7" 8MP CMOS	1/2.7" 5MP CMOS	1/2.9" 4MP CMOS	1/2.8" 2MP CMOS
Focal Length	2.7mm~13.5mm/F1.5	2.7mm~13.5mm/F1.5	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	3.6mm/F1.6 6mm/F1.6
FOV-H	104°~29°	108°~30°	106°/88°	97°/80°	95°/78°	107°/88°
Min. Illumination	0.008 lux@F1.5 (Color, 30 IRE) 0.0008 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)	0.002 lux@F1.5 (Color,30IRE) 0.0002 lux@F1.5 (B/W,30IRE) 0 lux (Illuminator on)	0.009 lux@F2.0 (Color, 30 IRE) 0.0009 lux@F2.0 (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)	0.008 lux@F1.6 (Color, 30 IRE) 0.0008 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.002 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	120dB	120dB	120dB	120dB	120dB
Illumination Distance	40m (131.23 ft) (IR)	40m (131.23 ft) (IR)	30m (98.43 ft) (IR)	30m (98.43 ft) (IR)	30m (98.43 ft) (IR)	30m (98.43 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)	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Supported	Supported	Supported	Supported	Supported	Supported
Max. Resolution	4MP (2688×1520)	2MP (1920×1080)	8MP (3840×2160)	4MP (2688×1520)	4MP (2688×1520)	2MP (1920×1080)
Frame Rate	25/30 fps@4MP (2560×1440)	25/30fps@2MP	20fps@8MP	20fps@5MP	25/30 fps@4MP (2560×1440)	25/30fps@2MP
Multi-streaming	2 streams	2 streams	2 streams	2 streams	2 streams	2 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°~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	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	--	--	--	--	--
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-30 °C~+60 °C (-22 °F~+140 °F)	-30 °C~+60 °C (-22 °F~+140 °F)	-40 °C~+60 °C (-40 °F~+140 °F)	-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. 7.3W	12V DC/PoE (802.3af), Max. 6W	12V DC/PoE (802.3af), Max. 5.4W	12V DC/PoE (802.3af), Max. 6.2W	12V DC/PoE (802.3af), Max. 5.1W	12V DC/PoE (802.3af), Max. 5.1W
<b>Artificial Intelligence</b>						
SMD	SMD Plus	SMD Plus	SMD Plus	SMD Plus	SMD Plus	SMD Plus
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)
Intelligent Search	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos

# NETWORK CAMERAS

## WizSense 2 Series

	Fixed-focal Bullet				Fixed-focal Dome	
Model	IPC-HFW2841T-AS	IPC-HFW2541T-AS	IPC-HFW2441T-AS	IPC-HFW2241T-AS	IPC-HDBW2841E-S	IPC-HDBW2541E-S
Appearance	 <b>Starlight</b>	 <b>Starlight</b>	 <b>Starlight</b>	 <b>Starlight+</b>	 <b>Starlight</b>	 <b>Starlight</b>
Image Sensor	1/2.7" 8MP CMOS	1/2.7" 5MP CMOS	1/2.9" 4MP CMOS	1/2.8" 2MP CMOS	1/2.7" 8MP CMOS	1/2.7" 5MP CMOS
Focal Length	3.6mm/F2.0 6mm/F2.0	3.6mm/F1.6 6mm/F1.6 8mm/F1.6	3.6mm/F1.6 6mm/F1.6 8mm/F1.6	3.6mm/F1.6 6mm/F1.6 8mm/F1.6	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F1.6 3.6mm/F1.6
FOV-H	88°/55°	92°/57°/43°	84°/52°/40°	88°/54°/42°	106°/88°	97°/80°
Min. Illumination	0.009 lux@F 2.0 (Color, 30 IRE) 0.0009 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)	0.008 lux@F1.6 (Color, 30 IRE) 0.0008 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.008 lux@F1.6 (Color, 30 IRE) 0.0008 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.009 lux@F 2.0 (Color, 30 IRE) 0.0009 lux@F2.0 (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)
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	120dB	120dB	120dB	120dB	120dB
Illumination Distance	80m (262.47 ft) (IR)	80m (262.47 ft) (IR)	80m (262.47 ft) (IR)	80m (262.47 ft) (IR)	30m (98.43 ft) (IR)	30m (98.43 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)	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Supported	Supported	Supported	Supported	Supported	Supported
Max. Resolution	8MP (3840×2160)	5MP (2960×1668)	4MP (2688×1520)	2MP (1920×1080)	8MP (3840×2160)	5MP (2592×1944)
Frame Rate	20fps@8MP	20fps@5MP	25/30 fps@4MP (2560×1440)	25/30fps@2MP	20fps@8MP	20fps@5MP
Multi-streaming	2 streams	2 streams	2 streams	2 streams	2 streams	2 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°~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	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	Built-in Mic, 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	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	1 channel in: 5mA 3~5V DC 1 channel out: 300mA 12V DC	1 channel in: 5mA 3~5V DC 1 channel out: 300mA 12V DC	1 channel in: 5mA 3~5V DC 1 channel out: 300mA 12V DC	1 channel in: 5mA 3~5V DC 1 channel out: 300mA 12V DC	--	--
Ingress Protection	IP67, IK10 (optional)	IP67, IK10 (optional)	IP67, IK10 (optional)	IP67, IK10 (optional)	IP67, IK10	IP67, IK10
Working Temperature	-40 °C~+60 °C (-40 °F~+140 °F)	-40 °C~+60 °C (-40 °F~+140 °F)	-40 °C~+60 °C (-40 °F~+140 °F)	-40 °C~+60 °C (-40 °F~+140 °F)	-40 °C~+60 °C (-40 °F~+140 °F)	-40 °C~+60 °C (-40 °F~+140 °F)
Power	12V DC/PoE (802.3af), Max. 8.9W	12V DC/PoE (802.3af), Max. 8.8W	12V DC/PoE (802.3af), Max. 8.3W	12V DC/PoE (802.3af), Max. 7.9W	12V DC/PoE (802.3af), Max. 6.4W	12V DC/PoE (802.3af), Max. 7.2W
<b>Artificial Intelligence</b>						
SMD	SMD Plus	SMD Plus	SMD Plus	SMD Plus	SMD Plus	SMD Plus
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)
Intelligent Search	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos

## WizSense 2 Series

	Fixed-focal Dome		Fixed-focal Eyeball			
Model	IPC-HDBW2441E-S	IPC-HDBW2241E-S	IPC-HDW2841T-S	IPC-HDW2541T-S	IPC-HDW2441T-S	IPC-HDW2241T-S
Appearance	 <b>Starlight</b>	 <b>Starlight+</b>	 <b>Starlight</b>	 <b>Starlight</b>	 <b>Starlight</b>	 <b>Starlight+</b>
Image Sensor	1/2.9" 4MP CMOS	1/2.8" 2MP CMOS	1/2.7" 8MP CMOS	1/2.7" 5MP CMOS	1/2.9" 4MP CMOS	1/2.8" 2MP CMOS
Focal Length	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6
FOV-H	102°/84°	106°/88°	106°/88°	97°/80°	95°/78°	107°/88°
Min. Illumination	0.008 lux@F1.6 (Color, 30IRE) 0.0008 lux@F1.6 (B/W, 30IRE) 0 lux (Illuminator on)	0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.009 lux@F2.0 (Color, 30 IRE) 0.0009 lux@F2.0 (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)	0.008 lux@F1.6 (Color, 30 IRE) 0.0008 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.002 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	120dB	120dB	120dB	120dB	120dB
Illumination Distance	30m (98.43 ft) (IR)	30m (98.43 ft) (IR)	30m (98.43 ft) (IR)	30m (98.43 ft) (IR)	30m (98.43 ft) (IR)	30m (98.43 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)	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Supported	Supported	Supported	Supported	Supported	Supported
Max. Resolution	4MP (2688x1520)	2MP (1920x1080)	8MP (3840x2160)	5MP (2592x1944)	4MP (2688x1520)	2MP (1920x1080)
Frame Rate	25/30 fps@4MP (2560x1440)	25/30fps@2MP	20fps@8MP	20fps@5MP	25/30 fps@4MP (2560x1440)	25/30fps@2MP
Multi-streaming	2 streams	2 streams	2 streams	2 streams	2 streams	2 streams
Angle Adjustment	Pan: 0°~355°; Tilt: 0°~65°; Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~65°; Rotation: 0°~355°	Pan: 0°~360°; Tilt: 0°~78°; Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78°; Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78°; Rotation: 0°~360°	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	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	Built-in Mic	Built-in Mic
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	--	--	--	--	--
Ingress Protection	IP67, IK10	IP67, IK10	IP67	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)	-40 °C~+60 °C (-40 °F~+140 °F)
Power	12V DC/PoE (802.3af), Max. 6W	12V DC/PoE (802.3af), Max. 5.6W	12V DC/PoE (802.3af), Max. 5.4W	12V DC/PoE (802.3af), Max. 6.7W	12V DC/PoE (802.3af), Max. 5.1W	12V DC/PoE (802.3af), Max. 5.1W
<b>Artificial Intelligence</b>						
SMD	SMD Plus	SMD Plus	SMD Plus	SMD Plus	SMD Plus	SMD Plus
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)
Intelligent Search	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos

# NETWORK CAMERAS


## WizSense 2 Series

	Fixed-focal Eyeball				Fixed-focal Bullet	
Model	IPC-HDW2841TM-S	IPC-HDW2541TM-S	IPC-HDW2441TM-S	IPC-HDW2241TM-S	IPC-HFW2849S-S-IL	IPC-HFW2549S-S-IL
Appearance						
Image Sensor	1/2.7" 8MP CMOS	1/2.7" 5MP CMOS	1/2.9" 4MP CMOS	1/2.8" 2MP CMOS	1/2.7" 8MP CMOS	1/2.7" 5MP CMOS
Focal Length	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6
FOV-H	106°/88°	97°/80°	95°/78°	107°/88°	111°/87°	111°/87°
Min. Illumination	0.009 lux@F2.0 (Color, 30 IRE) 0.0009 lux@F2.0 (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)	0.008 lux@F1.6 (Color, 30 IRE) 0.0008 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.008 lux@F1.6 (Color, 30 IRE) 0.0008 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.007 Lux@F1.6 (Color, 30IRE) 0.0007 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	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Illumination Distance	30m (98.43 ft) (IR)	30m (98.43 ft) (IR)	30m (98.43 ft) (IR)	30m (98.43 ft) (IR)	30 m (98.43 ft) (IR); 30 m (98.43 ft) (Warm light)	30 m (98.43 ft) (IR); 30 m (98.43 ft) (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)	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	Supported
Max. Resolution	8MP (3840x2160)	5MP (2592x1944)	4MP (2688x1520)	2MP (1920x1080)	8MP (3840 x 2160)	5MP (2960 x 1668)
Frame Rate	20fps@8MP	20fps@5MP	25/30 fps@4MP (2560x1440)	25/30fps@2MP	20fps@8MP	20fps@5MP
Multi-streaming	2 streams	2 streams	2 streams	2 streams	2 streams	2 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°	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	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	--	--	--	--	--
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40 °C~+55 °C (-40 °F~+131 °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~+55°C (-40°F~+131°F)	-40°C~+60°C (-40°F~+140°F)
Power	12V DC/PoE (802.3af), Max. 5.4W	12V DC/PoE (802.3af), Max. 6.7W	12V DC/PoE (802.3af), Max. 5.1W	12V DC/PoE (802.3af), Max. 5.1W	DC12V,PoE (802.3af), Max. 5 W	DC12V,PoE (802.3af), Max. 4.6 W
<b>Artificial Intelligence</b>						
SMD	SMD Plus	SMD Plus	SMD Plus	SMD Plus	SMD Plus	SMD Plus
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)
Intelligent Search	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos



# NETWORK CAMERAS











## WizSense 2 Series

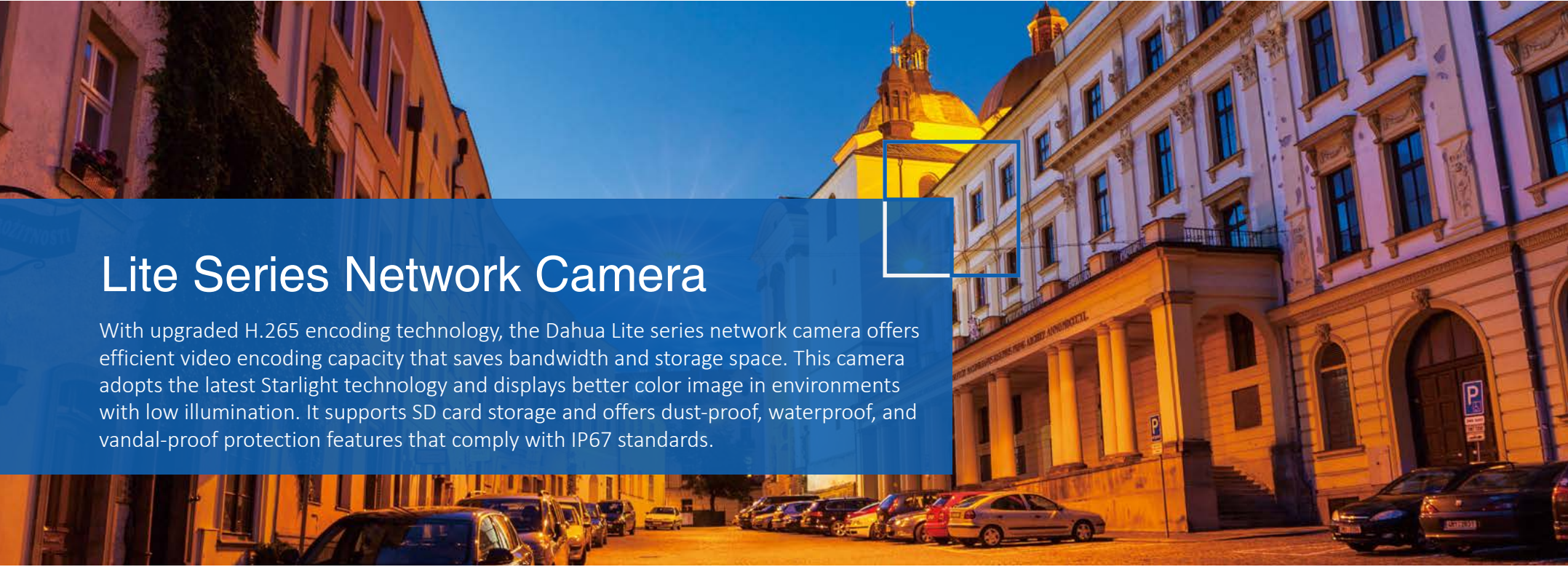
	Fixed-focal Bullet		Fixed-focal Eyeball			
Model	IPC-HFW2449S-S-IL	IPC-HFW2249S-S-IL	IPC-HDW2849T-S-IL	IPC-HDW2549T-S-IL	IPC-HDW2449T-S-IL	IPC-HDW2249T-S-IL
Appearance						
Image Sensor	1/2.9" 4MP CMOS	1/2.8" 2MP CMOS	1/2.7" 8MP CMOS	1/2.7" 5MP CMOS	1/2.9" 4MP CMOS	1/2.8" 2MP CMOS
Focal Length	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6
FOV-H	95°/78°	107°/88°	111°/87°	111°/87°	95°/78°	107°/88°
Min. Illumination	0.008 lux@F1.6 (Color, 30 IRE) 0.0008 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.002 Lux@F1.6 (Color, 30IRE) 0.0002Lux@F1.6 (B/W, 30IRE) 0 lux (Illuminator on)	0.008 lux@F1.6 (Color, 30 IRE) 0.0008 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.007 Lux@F1.6 (Color, 30IRE) 0.0007 Lux@F1.6 (B/W, 30IRE) 0 lux (Illuminator on)	0.008 lux@F1.6 (Color, 30 IRE) 0.0008 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.002 Lux@F1.6 (Color, 30IRE) 0.0002Lux@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	Auto(ICR)/Color/B/W	Auto(ICR)/Color/B/W
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Illumination Distance	30 m (98.43 ft) (IR); 30 m (98.43 ft) (Warm light)	30 m (98.43 ft) (IR); 30 m (98.43 ft) (Warm light)	30 m (98.43 ft) (IR); 30 m (98.43 ft) (Warm light)	30 m (98.43 ft) (IR); 30 m (98.43 ft) (Warm light)	30 m (98.43 ft) (IR); 30 m (98.43 ft) (Warm light)	30 m (98.43 ft) (IR); 30 m (98.43 ft) (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)	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	Supported
Max. Resolution	4MP (2688x1520)	1080p (1920x1080)	8MP (3840x2160)	5MP (2960x1668)	4MP (2688x1520)	1080p (1920x1080)
Frame Rate	25/30fps@4MP	25/30 fps@2MP	20fps@8MP	20fps@5MP	25/30fps@4MP	25/30 fps@2MP
Multi-streaming	2 streams	2 streams	2 streams	2 streams	2 streams	2 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°~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	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	Built-in Mic	Built-in Mic
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	--	--	--	--	--
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+55°C (-40°F~+131°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. 5.2W	DC12V, PoE (802.3af), Max. 3.8W	DC12V, PoE (802.3af), Max. 5W	DC12V, PoE (802.3af), Max. 4.6W	DC12V, PoE (802.3af), Max. 5.2W	DC12V, PoE (802.3af), Max. 3.8W
<b>Artificial Intelligence</b>						
SMD	SMD Plus	SMD Plus	SMD Plus	SMD Plus	SMD Plus	SMD Plus
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)
Intelligent Search	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos

# NETWORK CAMERAS

## WizSense 2 Series

### Fixed-focal Eyeball

Model	IPC-HDW2849TM-S-IL	IPC-HDW2549TM-S-IL	IPC-HDW2449TM-S-IL	IPC-HDW2249TM-S-IL
Appearance	  	  	  	  
Image Sensor	1/2.7" 8MP CMOS	1/2.7" 5MP CMOS	1/2.9" 4MP CMOS	1/2.8" 2MP CMOS
Focal Length	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6
FOV-H	111°/87°	111°/92°	95°/78°	107°/88°
Min. Illumination	0.008 lux@F1.6 (Color, 30 IRE) 0.0008 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.007 Lux@F1.6 (Color, 30 IRE) 0.0007 Lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.008 lux@F1.6 (Color, 30 IRE) 0.0008 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)	0.002 Lux@F1.6 (Color, 30IRE) 0.0002Lux@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	30 m (98.43 ft) (IR); 30 m (98.43 ft) (Warm light)	30 m (98.43 ft) (IR); 30 m (98.43 ft) (Warm light)	30 m (98.43 ft) (IR); 30 m (98.43 ft) (Warm light)	30 m (98.43 ft) (IR); 30 m (98.43 ft) (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)	5MP (2960×1668)	4MP (2688×1520)	1080p (1920×1080)
Frame Rate	20fps@8MP	20fps@5MP	25/30fps@4MP	25/30 fps@2MP
Multi-streaming	2 streams	2 streams	2 streams	2 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. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	--	--	--
Ingress Protection	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+55°C (-40°F~+131°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. 5 W	DC12V, PoE (802.3af), Max. 4.6 W	DC12V, PoE (802.3af), Max. 5.2 W	DC12V, PoE (802.3af), Max. 3.8 W
<b>Artificial Intelligence</b>				
SMD	SMD Plus	SMD Plus	SMD Plus	SMD Plus
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)
Intelligent Search	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos



# Lite Series Network Camera

With upgraded H.265 encoding technology, the Dahua Lite series network camera offers efficient video encoding capacity that saves bandwidth and storage space. This camera adopts the latest Starlight technology and displays better color image in environments with low illumination. It supports SD card storage and offers dust-proof, waterproof, and vandal-proof protection features that comply with IP67 standards.



## Starlight

With advanced image processing technology and optical technology, the Dahua Starlight technology can provide clear colorful video in low-light environments. It is widely applied in various application scenarios with low illumination.



## WDR

With advanced Wide Dynamic Range (WDR) technology, the Dahua network camera can provide clear details of the monitored scene with strong brightness contrast. Clear videos can be captured in both bright and dark areas, even in environments with high brightness or with backlight shadow. All products in this series support WDR (except fixed 2230 series).




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

With advanced scene-adaptive rate control algorithm, the Dahua smart encoding technology realizes higher encoding efficiency than H.265 and H.264, providing high quality videos and reducing storage and transmission costs.

# NETWORK CAMERAS

## Lite Series

	Fixed-focal Bullet		Fixed-focal Dome			Fixed-focal Eyeball
Model	IPC-HFW2231M-AS-I2-B-S2	IPC-HFW2230S-S-S2	IPC-HDBW2231F-AS-S2	IPC-HDBW2431F-AS-S2	IPC-HDBW2230E-S-S2	IPC-HDW2230T-AS-S2
Appearance	 <span>Starlight</span>	 <span>Starlight</span>	 <span>Starlight+</span>	 <span>Starlight</span>	 <span>Starlight</span>	 <span>Starlight</span>
Image Sensor	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.7" 2MP CMOS
Focal Length	3.6mm/F1.6 6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6	2.8mm/F1.6 3.6mm/F1.6
FOV-H	88°/54°	107°/88°	106°/87°	102°/84°	108°/88°	110°/91°
Min. Illumination	0.002 Lux@F1.6 (Color, 30 IRE) 0.0002 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)	0.002 Lux@F1.6	0.008 Lux@F1.6	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
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	120 dB	DWDR	120 dB	120 dB	DWDR	DWDR
Illumination Distance	50m (164.04ft) (IR)	30m (98.43 ft) (IR)	30m (98.4 ft) (IR)	30m (98.4 ft) (IR)	30m (98.43 ft) (IR)	30m (98.43 ft) (IR)
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)
Max. Resolution	2MP (1920×1080)	2MP (1920×1080)	2MP (1920×1080)	4MP (2688×1520)	2MP (1920×1080)	2MP (1920×1080)
Frame Rate	25/30fps@2MP	25/30fps@2MP	25/30fps@2MP	25/30fps@4MP	25/30fps@2MP	25/30fps@2MP
Multi-streaming	2 streams	2 streams	2 streams	2 streams	2 streams	2 streams
Angle Adjustment	--	Pan: 0°~360°; Tilt: 0°~90°; Rotation: 0°~360°	Pan: -30°~30°; Tilt: 0°~80°; Rotation: 0°~360°	Pan: -30°~30°; Tilt: 0°~80°; Rotation: 0°~360°	Pan: 0°~355°; Tilt: 0°~65°; Rotation: 0°~355°	Pan: 0°~360°; Tilt: 0°~78°; Rotation: 0°~360°
Intelligent Video	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire; Intrusion	Tripwire; Intrusion	Tripwire; Intrusion	Tripwire; Intrusion
Compatibility	ONVIF (Profile S&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
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	2/2	--	1 channel in: 5mA 3V~5V DC 1 channel out: 300mA 12V DC	1 channel in: 5mA 3V~5V DC 1 channel out: 300mA 12V DC	--	--
Ingress Protection	IP67	IP67	IP67, IK10	IP67, IK10	IP67, IK10	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)	-40 °C~+60 °C (-40 °F~+140 °F)
Power	12V DC/PoE (802.3af), Max. 6.1W	12 V DC/PoE (802.3af), Max. 4.7W	12V DC/PoE(802.3af), Max. 5.4W	12V DC/PoE(802.3af), Max. 5.4W	12 V DC/PoE (802.3af), Max. 5.4W	12V DC/PoE (802.3af), Max. 5.9W

# NETWORK CAMERAS

## Lite Series

	Vari-focal Bullet				Fixed-focal Eyeball	
Model	IPC-HFW2439M-AS-LED-B-S2	IPC-HFW2239M-AS-LED-B-S2	IPC-HFW2439S-SA-LED-S2	IPC-HFW2239S-SA-LED-S2	IPC-HDW2239T-AS-LED-S2	IPC-HDW2439T-AS-LED-S2
Appearance						
Image Sensor	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/2.8" 2MP CMOS	1/3" 4MP CMOS
Focal Length	3.6mm/F1.0 6mm/F1.0	3.6mm/F1.0 6mm/F1.0	2.8mm/F1.0 3.6mm/F1.0	2.8mm/F1.0 3.6mm/F1.0	2.8 mm: F1.0 3.6 mm: F1.0	2.8 mm: F1.0 3.6 mm: F1.0
FOV-H	91°/55°	91°/55°	96°/81°	107°/91°	107°/91°	96°/81°
Min. Illumination	0.004 Lux@F1.0	0.0017 Lux@F1.0	0.004 Lux@F1.0	0.0017 Lux@F1.0	0.0017 Lux@F1.0	0.004 Lux@F1.0
Day/Night	Color/B/W	Color/B/W	Color/B/W	Color/B/W	Color/B/W	Color/B/W
WDR	120dB	120dB	120dB	120dB	120dB	120dB
Illumination Distance	40 m (131.2 ft)	40 m (131.2 ft)	30 m (98.4 ft)	30 m (98.4 ft)	30 m (98.4 ft)	30 m (98.4 ft)
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)	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)
Max. Resolution	4MP (2688x1520)	2MP (1920x1080)	4MP (2688x1520)	2MP (1920x1080)	2MP (1920x1080)	4MP (2688x1520)
Frame Rate	25/30 fps@4MP	25/30 fps@2MP	25/30 fps@4MP	25/30 fps@2MP	25/30fps@2MP	25/30fps@4MP
Multi-streaming	2 streams	2 streams	2 streams	2 streams	2 streams	2 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°~78°; Rotation: 0°~360°	Pan: 0°~360°; Tilt: 0°~78°; Rotation: 0°~360°
Intelligent Video	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion	Tripwire, Intrusion
Compatibility	ONVIF (Profile S&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	1/1	Built-in Mic	Built-in Mic	Built-in Mic	Built-in Mic
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	2/2	2/2	--	--	--	--
Ingress Protection	IP67	IP67	IP67	IP67	IP67	IP67
Working Temperature	-40°C~+55°C (-40°F~+131°F)	-40°C~+55°C (-40°F~+131°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. 10.2 W	12V DC/PoE (802.3af), Max. 10 W	12V DC/PoE (802.3af), Max. 6.2 W	12V DC/PoE (802.3af), Max. 6 W	12V DC/PoE (802.3af), Max. 7.1W	12V DC/PoE (802.3af), Max. 7.4W



# Wireless Series Network Camera

Driven by industry-leading technology, the Dahua Wireless Series Network Cameras are highly precise and produces high-quality images. They do not require network cables, making their installation easy to implement. It includes Wi-Fi Series, 4G Camera, and 5G Camera to meet the needs of different wireless application scenarios.



## Wi-Fi

Dahua Wi-Fi series network Cameras have strong Wi-Fi connection capabilities and do not require network cables, eliminating the need for a professional construction team. This series of cost-effective cameras support SD card storage, and are dustproof and waterproof.



## 4G

With a built-in high-performance 4G mobile network module, the camera can be directly registered to cloud platforms after a 4G SIM card has been inserted into it. It can be installed anywhere without the hassle of network cables. Users can perform real-time monitoring and remote control of the camera from a mobile client through 4G network.



## 5G

Equipped with built-in high-performance 5G mobile communication module, the camera supports 5G network connection (also compatible with 4G connection). Two networking methods, Non-Standalone (NSA) and Standalone (SA), are also supported. The 5G camera can be registered on the platform and can transmit videos, images, intelligent feature information and alarm events. Users can monitor and operate it remotely in real time.





## Wireless Series

### Fixed-focal Bullet

Model	IPC-HFW1230DT-STW	IPC-HFW1430DT-STW	IPC-HFW1230DS-SAW	IPC-HFW1430DS-SAW
Appearance				
Image Sensor	1/2.8" 2MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/3" 4MP CMOS
Focal Length	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0
FOV-H	100°/ 86°	90°/ 76°	100°/ 86°	90°/ 76°
Min. Illumination	0.025 lux@F2.0 (Color, 30 IRE) 0.0025 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)	0.03 Lux@F2.0 (Color, 30 IRE) 0.003 Lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)	0.025 lux@F2.0 (Color, 30 IRE) 0.0025 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)	0.025 lux@F2.0 (Color, 30 IRE) 0.0025 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	Auto (ICR)/Color/B/W
WDR	DWDR	DWDR	DWDR	DWDR
Illumination Distance	30m (98.43ft) (IR)	30m (98.43ft) (IR)	30m (98.43ft) (IR)	30m (98.43ft) (IR)
Video Compression	H.264B; H.264; H.264H; H.265	H.264B; H.264; H.264H; H.265	H.264B; H.264; H.264H; H.265	H.264B; H.264; H.264H; H.265
Max. Resolution	2MP (1920×1080)	4 MP (2560×1440)	2 MP (1920×1080)	4 MP (2560×1440)
Frame Rate	25/30fps@2MP	20fps@4MP	25/30fps@2MP	20fps@4MP
Multi-streaming	2 streams	2 streams	2 streams	2 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°
Wi-Fi	IEEE802.11b/g/n 2.4~2.4835GHz; 2.4G	IEEE802.11b/g/n 2.4~2.4835GHz; 2.4G	IEEE802.11b/g/n 2.4~2.4835GHz	IEEE802.11b/g/n 2.4~2.4835GHz
Compatibility	ONVIF (Profile T); CGI; SDK	ONVIF (Profile T); CGI; SDK	ONVIF (Profile T); CGI; SDK	ONVIF (Profile T); CGI; SDK
Audio In/Out	Built-in Mic & Speaker	Built-in Mic & Speaker	Built-in Mic	Built-in Mic
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 256GB
Alarm In/Out	--	--	--	--
Ingress Protection	IP67	IP67	IP67	IP67
Working Temperature	-30 °C~+50 °C (-22 °F~+122 °F)	-30 °C~+50 °C (-22 °F~+122 °F)	-40 °C~+60 °C (-40 °F~+140 °F)	-40 °C~+60 °C (-40 °F~+140 °F)
Power	12V DC, Max. 6.21W	12V DC, Max. 6.1W	12V DC, Max. 4.1W	12V DC, Max. 4.1W

# NETWORK CAMERAS




## Wireless Series

	Fixed-focal Eyeball		Fixed-focal Dome		Floodlight Camera
Model	IPC-HDW1230DT-STW	IPC-HDW1430DT-STW	IPC-HDBW1230DE-SW	IPC-HDBW1430DE-SW	IPC-WL46A
Appearance					
Image Sensor	1/2.8" 2MP CMOS	1/3" 4MP CMOS	1/2.8" 2MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS
Focal Length	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F2.0 3.6mm/F2.0	2.8mm/F1.6
FOV-H	100°/ 86°	90°/ 76°	100°/ 86°	90°/ 76°	98°
Min. Illumination	0.025 lux@F2.0 (Color, 30 IRE) 0.0025 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)	0.03 Lux@F2.0 (Color, 30 IRE) 0.003 Lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)	0.025 lux@F2.0 (Color, 30 IRE) 0.0025 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)	0.025 lux@F2.0 (Color, 30 IRE) 0.0025 lux@F2.0 (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)
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	DWDR	DWDR	DWDR	DWDR
Illumination Distance	30m (98.43ft) (IR)	30m (98.43ft) (IR)	30m (98.43ft) (IR)	30m (98.43ft) (IR)	10 m (32.81 ft) (IR); 30 m (98.43 ft) (Floodlight)
Video Compression	H.264B; H.264; H.264H; H.265	H.264B; H.264; H.264H; H.265	H.264B; H.264; H.264H; H.265	H.264B; H.264; H.264H; H.265	H.264B; H.264; H.264H; H.265; MJPEG
Max. Resolution	2 MP (1920×1080)	4 MP (2560×1440)	2 MP (1920×1080)	4 MP (2560×1440)	4 MP (2560×1440)
Frame Rate	25/30fps@2MP	20fps@4MP	25/30fps@2MP	20fps@4MP	25/30fps@4MP
Multi-streaming	2 streams	2 streams	2 streams	2 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°~75°; Rotation: 0°~355°	Pan: 0°~355°; Tilt: 0°~75°; Rotation: 0°~355°	Pan: -85°~+85°; Tilt: -90°~+45°; Rotation: 0° ~+360°
Wi-Fi	IEEE802.11b/g/n 2.4~2.4835GHz; 2.4G	IEEE802.11b/g/n 2.4~2.4835 GHz; 2.4G	IEEE802.11b/g/n 2.4~2.4835GHz	IEEE802.11b/g/n 2.4~2.4835GHz	IEEE802.11a/b/g/n/ac 2.4~2.4835GHz & 5.18~5.85GHz
Compatibility	ONVIF (Profile T); CGI; SDK	ONVIF (Profile T); CGI; SDK	ONVIF (Profile T); CGI; SDK	ONVIF (Profile T); CGI; SDK	ONVIF; CGI; SDK
Audio In/Out	Built-in Mic & Speaker	Built-in Mic & Speaker	--	--	Built-in Mic & 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	--	--	--	--	--
Ingress Protection	IP67	IP67	IP67, IK10	IP67, IK10	IP65
Working Temperature	-30 °C~+60 °C (-22 °F~+140 °F)	-30 °C~+60 °C (-22 °F~+140 °F)	-40 °C~+60 °C (-40 °F~+140 °F)	-40 °C~+60 °C (-40 °F~+140 °F)	-20 °C~+50 °C (-4 °F~+122 °F)
Power	12V DC, Max. 6.1W	12V DC, Max. 6.1W	12V DC, Max. 4.9W	12V DC, Max. 4.9W	100~240V AC, Max. 48.3W







## Wireless Series

### 4G Bullet

Model	IPC-HFW3441DG-AS-4G-EAU-B	IPC-HFW3441DG-AS-4G-LA-B	IPC-HFW2431DGP-4G-SP-EAU-B	IPC-HFW2431DGP-4G-SP-LA-B
Appearance				
Image Sensor	1/3" 4MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS	1/3" 4MP CMOS
Focal Length	2.8mm/F1.6; 3.6mm/F1.6; 6mm/F1.6	2.8mm/F1.6; 3.6mm/F1.6; 6mm/F1.6	2.8mm/F1.6; 3.6mm/F1.6; 6mm/F1.6	2.8mm/F1.6; 3.6mm/F1.6; 6mm/F1.6
FOV-H	102°/84°/52°	102°/84°/52°	102°/84°/52°	102°/84°/52°
Min. Illumination	0.01 Lux@F1.6 (Color, 30IRE) 0.001 Lux@F1.6 (B/W, 30IRE) 0 lux (Illuminator on)	0.01 Lux@F1.6 (Color, 30IRE) 0.001 Lux@F1.6 (B/W, 30IRE) 0 lux (Illuminator on)	0.01 Lux@F1.6 (Color, 30IRE) 0.001 Lux@F1.6 (B/W, 30IRE) 0 lux (Illuminator on)	0.01 Lux@F1.6 (Color, 30IRE) 0.001 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	50 m (164.04 ft) (IR) 30 m (98.43 ft) (Warm light)	50 m (164.04 ft) (IR) 30 m (98.43 ft) (Warm light)	50 m (164.04 ft) (IR) 30 m (98.43 ft) (Warm light)	50 m (164.04 ft) (IR) 30 m (98.43 ft) (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)
Max. Resolution	4 MP (2688 × 1520)	4 MP (2688 × 1520)	4 MP (2688 × 1520)	4 MP (2688 × 1520)
Frame Rate	25/30fps@4MP	25/30fps@4MP	25/30fps@4MP	25/30fps@4MP
Multi-streaming	3 streams	3 streams	2 streams	2 streams
Frequency	LTE FDD:B1/3/5/7/8/20/28 LTE TDD:B38/40/41 WCDMA:B1/5/8 GSM/GPRS/EDGE:B3/5/8	LTE FDD:B1/2/3/4/5/7/8/12/17/28/66 LTE TDD:B38/40 WCDMA:B1/2/3/4/5/8 GSM/GPRS/EDGE:B2/3/5/8	4G: FDD-LTE: B1/3/5/7/8/20/28 TDD-LTE: B38/40/41 3G: WCDMA: B1/5/8 2G: GSM/GPRS/EDGE: B3/5/8	4G: FDD-LTE: B1/2/3/4/5/7/8/12/17/28/66 TDD-LTE: B38/40 3G: WCDMA: B1/2/3/4/5/8 2G: GSM/GPRS/EDGE: B2/3/5/8
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 & Speaker, 1/1	Built-in Mic & Speaker, 1/1	Built-in Mic & Speaker	Built-in Mic & Speaker
Storage	Built-in eMMC (8GB); FTP; SFTP; Micro SD card (supports max. 256GB); NAS	Built-in eMMC (8GB); FTP; SFTP; Micro SD card (supports max. 256GB); NAS	Built-in eMMC (8GB); FTP; SFTP; Micro SD card (supports max. 256GB); NAS	Built-in eMMC (8GB); FTP; SFTP; Micro SD card (supports max. 256GB); NAS
Alarm In/Out	1 channel in: 5 mA 3-5V DC 1 channel out: 300 mA 12V DC	1 channel in: 5 mA 3-5V DC 1 channel out: 300 mA 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)	0 °C ~ 50 °C (32 °F~122 °F)	0 °C ~ 50 °C (32 °F~122 °F)
PIR Sensor Distance	Up to 10 m	Up to 10 m	Up to 10 m	Up to 10 m
Power	12V DC Sleep Mode: 0.03W General Mode: 4W Power Saving Mode: 2W Max: 7.5W	12V DC Sleep Mode: 0.03W General Mode: 4W Power Saving Mode: 2W Max: 7.5W	MicroUSB/5V DC Sleep Mode: 0.03W General Mode: 2.1W Max: 4W Solar Module Max. Power: 5W	MicroUSB/5V DC Sleep Mode: 0.03W General Mode: 2.1W Max: 4W Solar Module Max. Power: 5W
Battery	--	--	General Mode: 15 hours (when the battery is fully charged); Sleep Mode: 10 days (at the rate of 1-hour remote live view per day)	General Mode: 15 hours (when the battery is fully charged); Sleep Mode: 10 days (at the rate of 1-hour remote live view per day)
SMD	SMD 3.0	SMD 3.0	--	--
Perimeter Protection	Tripwire; Intrusion (Human/Vehicle Target Recognition)	Tripwire; Intrusion (Human/Vehicle Target Recognition)	--	--

# NETWORK CAMERAS

## Wireless Series

	5G Bullet	
Model	IPC-HFW5842DK1P-Z-5G	IPC-HFW5842DK1-Z4-5G
Appearance	 	 
Image Sensor	1/1.8" 8MP CMOS	1/1.8" 8MP CMOS
Focal Length	2.7 mm~12 mm/F1.8	8 mm~32 mm/F1.6
FOV-H	113°~47°	42°~14.9°
Min. Illumination	0.005 lux@F1.8 (Color, 30 IRE) 0.0005 lux@F1.8 (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)
Day/Night	Auto (ICR)/Color/B/W	Auto (ICR)/Color/B/W
WDR	120dB	120dB
Illumination Distance	60 m (196.85 ft) (IR)	120 m (393.70 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)
Max. Resolution	8 MP (3840x2160)	8 MP (3840x2160)
Frame Rate	30fps@8MP	30fps@8MP
Multi-streaming	3 streams	3 streams
Frequency	5G SA: N1/N3/N7/N8/N20/N28/N38/N40/N41/N75/N76/N77/N78 NSA: N1/N3/N7/N8/N20/N28/N38/N40/N41/N77/N78 4G FDD-LTE: B1/B3 /B7 /B20 TDD-LTE: B41 3G WCDMA:B1 /B8	5G SA:N1/N3/N7/N8/N20/N28/N38/N40/N41/N75/N76/N77/N78 NSA:N1/N3/N7/N8/N20/N28/N38/N40/N41/N77/N78 4G FDD-LTE: B1/B3 /B7 /B20 TDD-LTE: B41 3G WCDMA:B1 /B8
Compatibility	ONVIF (Profile S&G&T); CGI; SDK	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	Built-in Mic & Speaker, 1/1	Built-in Mic & Speaker, 1/1
Memory Slot	Micro SD, Max. 512GB	Micro SD, Max. 512GB
Alarm In/Out	3 channels in: 5mA 3V-5V DC; 2 channels out: 300mA 12V DC	3 channels in: 5mA 3V-5V DC; 2 channels out: 300mA 12V DC
Ingress Protection	IP67	IP67
Working Temperature	-30 °C ~+60 °C (-22 °F~+140 °F)	-30 °C~+60 °C (-22 °F~+140 °F)
Power	12V DC (±30%), Max. 20W	12V DC (±30%), Max. 20W
Artificial Intelligence		
SMD	SMD 4.0	SMD 4.0
Heat Map	Supported	Supported
Face Detection	Supported	Supported
People Counting	Supported	Supported
Smart Object Detection	Smart abandoned object; smart missing object	Smart abandoned object; smart missing object
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
Smart Search	Works together with Smart NVR to perform refine intelligent search, event extraction and merging of event videos	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.

# NETWORK PTZ CAMERAS





# WizSense Series PTZ Camera

The WizSense Series PTZ Camera offers intelligent functions including Perimeter Protection, Face Detection, SMD and Auto Tracking. Powered by deep-learning AI algorithms, it features Starlight and PFA technologies and provides significantly higher accuracy.



## Face Detection

Supports detection, tracking, optimization and capturing, providing high-quality face images on videos.



## SMD

With intelligent algorithm, the Dahua Smart Motion Detection technology categorizes targets that trigger the detection alarm. It filters alarms caused by non-target objects, realizing an effective and accurate alarm system.



## Perimeter Protection

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








## Active Deterrence

Supports light alarm and voice alarm that can help warn off and deter intruders in time.

# NETWORK PTZ CAMERAS

## WizSense Series

### IR PTZ Camera




Model	SD6C3425XB-HNR-A-PV1	SD6C3432XB-HNR-AGQ-PV	SD6CE445GB-HNR	SD6CE432GB-HNR	SD6CE245GB-HNR
Appearance					
Image Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Lens	4.8 mm~120 mm (25x optical zoom)	4.8 mm~154 mm (32x optical zoom)	3.95 mm~177.75 mm (45x optical zoom)	4.8 mm~154 mm (32x optical zoom)	3.95 mm~177.75 mm (45x optical zoom)
FOV-H	55.8°~2.9°	55.8°~2.3°	65.7°~1.9°	55.8°~2.4°	65.7°~1.9°
Min. Illumination	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)
WDR	120 dB	120 dB	120 dB	120 dB	120 dB
Max. IR Distance	150m (492.13 ft)	150m (492.13 ft)	250m (820.21 ft)	250m (820.21 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	4MP (2560x1440)	4MP (2560x1440)	4MP (2560x1440)	4MP (2560x1440)	1080P (1920x1080)
Frame Rate	30fps@4MP	30fps@4MP	30fps@4MP	30fps@4MP	30fps@2MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless Tilt: -20°~+90°, auto flip 180°	Pan: 0°~360° endless Tilt: -20°~+90°, auto flip 180°	Pan: 0°~360° endless Tilt: -20°~+90°, auto flip 180°	Pan: 0°~360° endless Tilt: -20°~+90°, auto flip 180°	Pan: 0°~360° endless Tilt: -20°~+90°, auto flip 180°
Preset Speed	Pan: 240°/s; Tilt: 150°/s	Pan: 240°/s; Tilt: 150°/s	Pan: 400°/s; Tilt: 300°/s	Pan: 400°/s; Tilt: 300°/s	Pan: 400°/s; Tilt: 300°/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. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB
Alarm In/Out	2/1	2/1	7/2	7/2	7/2
Ingress Protection	IP66	IP66	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-40 °C~+70 °C (-40 °F~+158 °F)	-40 °C~+70 °C (-40 °F~+158 °F)	-40 °C~+70 °C (-40 °F~+158 °F)	-40 °C~+70 °C (-40 °F~+158 °F)	-40 °C~+70 °C (-40 °F~+158 °F)
Power	DC24V, PoE+ (802.3at), Max. 23W	DC12V, Max. 27W	DC24V, PoE+ (802.3at), Max: 25 W	DC24V, PoE+ (802.3at), Max.: 29.5 W	DC24V, PoE+ (802.3at), Max: 25 W
<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; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification
SMD	SMD 3.0	SMD 3.0	SMD 4.0	SMD 4.0	SMD 4.0
Quick Pick	--	--	Supported	Supported	Supported
Auto Tracking	Auto Tracking 3.0	Auto Tracking 3.0	Auto Tracking 3.0	Auto Tracking 3.0	Auto Tracking 3.0
Face Detection	Supported (detects up to 32 faces simultaneously)	Supported (detects up to 32 faces simultaneously)	Supported (detects up to 32 faces simultaneously)	Supported (detects up to 32 faces simultaneously)	Supported (detects up to 32 faces simultaneously)

NETWORK PTZ CAMERAS

# NETWORK PTZ CAMERAS

## WizSense Series

### IR PTZ Camera

Model	SD6CE232GB-HNR	SD6CE225DB-HNY	SD5A825GA-HNR	SD5A445GB-HNR	SD5A432GB-HNR
Appearance	 <b>WizSense</b> H.265+ Starlight	 <b>WizSense</b> H.265+ Starlight	 <b>WizSense</b> 4K H.265+ Starlight	 <b>WizSense</b> H.265+ Starlight	 <b>WizSense</b> H.265+ Starlight
Image Sensor	1/2.8" CMOS	1/2.8" CMOS	1/1.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Lens	4.8mm~154mm (32x optical zoom)	4.8mm~120mm (25x optical zoom)	5.4mm~135mm (25x optical zoom)	3.95mm~177.75mm (45x optical zoom)	4.8mm~154mm (32x optical zoom)
FOV-H	60.2°~2.7°	58.5°~2.8°	61.6°~3.6°	65.7°~1.9°	55.8°~2.4°
Min. Illumination	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)
WDR	120 dB	120 dB	DWDR	120 dB	120 dB
Max. IR Distance	250m (820.21 ft)	250m (820.21 ft)	150m (492.13 ft)	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	H.265+/H.265/H.264+/H.264
Max. Resolution	1080P (1920×1080)	1080P (1920×1080)	8MP (3840×2160)	4MP (2560×1440)	4MP (2560×1440)
Frame Rate	30fps@2MP	30fps@2MP	30fps@8MP	30fps@4MP	30fps@4MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless Tilt: -20°~+90°, auto flip 180°	Pan: 0°~360° endless Tilt: -20°~+90°, auto flip 180°	Pan: 0°~360° endless Tilt: -15°~+90°, auto flip 180°	Pan: 0°~360° endless Tilt: -15°~+90°, auto flip 180°	Pan: 0°~360° endless Tilt: -15°~+90°, auto flip 180°
Preset Speed	Pan: 400°/s; Tilt: 300°/s	Pan: 400°/s; Tilt: 300°/s	Pan: 400°/s; Tilt: 300°/s	Pan: 400°/s; Tilt: 300°/s	Pan: 400°/s; Tilt: 300°/s
Compatibility	ONVIF (Profile S&G&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	7/2	7/2	1/1	2/1	2/1
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-40 °C~+70 °C (-40 °F~+158 °F)	-40 °C~+70 °C (-40 °F~+158 °F)	-40 °C~+70 °C (-40 °F~+158 °F)	-40 °C~+70 °C (-40 °F~+158 °F)	-40 °C~+70 °C (-40 °F~+158 °F)
Power	DC24V, PoE+ (802.3at), Max.: 29.5 W	DC24V, PoE+ (802.3at), Max.: 25.2 W	DC24V, PoE+ (802.3at), Max.: 21 W	DC24V, PoE+ (802.3at), Max.: 22 W	DC24V, PoE+ (802.3at), Max.: 22 W
<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; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification
SMD	SMD 4.0	SMD 3.0	SMD 4.0	SMD 4.0	SMD 4.0
Quick Pick	Supported	--	Supported	Supported	Supported
Auto Tracking	Auto Tracking 3.0	--	Auto Tracking 3.0	Auto Tracking 3.0	Auto Tracking 3.0
Face Detection	Supported (detects up to 32 faces simultaneously)	Supported (detects up to 32 faces simultaneously)	Supported (detects up to 32 faces simultaneously)	Supported (detects up to 32 faces simultaneously)	Supported (detects up to 32 faces simultaneously)

# NETWORK PTZ CAMERAS

## WizSense Series

### IR PTZ Camera

Model	SD5A425GA-HNR	SD5A245GB-HNR	SD5A232GB-HNR	SD5A225GB-HNR
Appearance	 WizSense H.265+ Starlight	 WizSense H.265+ Starlight	 WizSense H.265+ Starlight	 WizSense H.265+ Starlight
Image Sensor	1/1.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Lens	5.4 mm~135 mm (25x optical zoom)	3.95 mm~177.75 mm (45x optical zoom)	4.5 mm~144 mm (32x optical zoom)	4.8 mm~120 mm (25x optical zoom)
FOV-H	61.6°~3.6°	65.7°~1.9°	58.4°~3.0°	58.5°~2.8°
Min. Illumination	0.001 Lux@F1.6 (Color) 0.0001 Lux@F1.6 (B/W)	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)
WDR	120 dB	120 dB	120 dB	120 dB
Max. IR Distance	150 m (492.13 ft)	150 m (492.13 ft)	150 m (492.13 ft)	150 m (492.13 ft)
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Max. Resolution	4MP (2560x1440)	1080P (1920x1080)	1080P (1920x1080)	1080P (1920x1080)
Frame Rate	30fps@4MP	30fps@2MP	30fps@2MP	30fps@2MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless Tilt: -15°~+90°, auto flip 180°	Pan: 0°~360° endless Tilt: -15°~+90°, auto flip 180°	Pan: 0°~360° endless Tilt: -15°~+90°, auto flip 180°	Pan: 0°~360° endless Tilt: -15°~+90°, auto flip 180°
Preset Speed	Pan: 400°/s; Tilt: 300°/s	Pan: 400°/s; Tilt: 300°/s	Pan: 400°/s; Tilt: 300°/s	Pan: 400°/s; Tilt: 300°/s
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. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB
Alarm In/Out	2/1	2/1	2/1	2/1
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IP67, IK10
Working Temperature	-40 °C ~ +70 °C (-40 °F ~ +158 °F)	-40 °C ~ +70 °C (-40 °F ~ +158 °F)	-40 °C ~ +70 °C (-40 °F ~ +158 °F)	-40 °C ~ +70 °C (-40 °F ~ +158 °F)
Power	DC24V, PoE+ (802.3at) Max.: 21 W	DC24V, PoE+ (802.3at) Max.: 22 W	DC24V, PoE+ (802.3at) Max.: 22 W	DC24V, PoE+ (802.3at) Max.: 22 W
<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	SMD 4.0	SMD 4.0	SMD 4.0	SMD 4.0
Quick Pick	Supported	Supported	Supported	Supported
Auto Tracking	Auto Tracking 3.0	Auto Tracking 3.0	Auto Tracking 3.0	Auto Tracking 3.0
Face Detection	Supported (detects up to 32 faces simultaneously)	Supported (detects up to 32 faces simultaneously)	Supported (detects up to 32 faces simultaneously)	Supported (detects up to 32 faces simultaneously)

# NETWORK PTZ CAMERAS

## WizSense Series

	Vandal-proof PTZ Camera			In-ceiling PTZ Camera		Ceiling PTZ Camera
Model	SD50432GB-HNR	SD50232GB-HNR	SD50225DB-HNY	SD52C432GB-HNR	SD52C232GB-HNR	SD4A425DB-HNY
Appearance						
Image Sensor	1/2.8" CMOS	1/2.8" STARVIS™ CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" STARVIS™ CMOS	1/2.8" CMOS
Lens	4.8mm~154mm (32x optical zoom)	4.5mm~144mm (32x optical zoom)	4.8mm~120mm (25x optical zoom)	4.8mm~154mm (32x optical zoom)	4.5mm~144mm (32x optical zoom)	5mm~125mm (25x optical zoom)
FOV-H	55.8°~2.3°	58.4°~3.0°	58.5°~2.8°	55.8°~2.3°	58.4°~3.0°	51.9°~3.0°
Min. Illumination	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)
WDR	120 dB	120 dB	120 dB	120 dB	120 dB	120 dB
Max. IR Distance	--	--	--	--	--	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)	1080P (1920x1080)	1080P (1920x1080)	4MP (2560x1440)	1080P (1920x1080)	4MP (2560x1440)
Frame Rate	30fps@4MP	30fps@2MP	30fps@2MP	30fps@4MP	30fps@2MP	30fps@4MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless Tilt: 0°~+90°, auto flip 180	Pan: 0°~360° endless Tilt: 0°~+90°, auto flip 180	Pan: 0°~360° endless Tilt: 0°~+90°, auto flip 180	Pan: 0°~360° endless Tilt: 0°~+90°, auto flip 180	Pan: 0°~360° endless Tilt: 0°~+90°, auto flip 180	Pan: 0°~360° endless Tilt: -5°~+90°, au~ flip 180°
Preset Speed	Pan: 500°/s; Tilt: 500°/s	Pan: 500°/s; Tilt: 500°/s	Pan: 500°/s; Tilt: 500°/s	Pan: 500°/s; Tilt: 500°/s	Pan: 500°/s; Tilt: 500°/s	Pan: 240°/s; Tilt: 160°/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	ONVIF (Profile S&G&T); CGI; SDK
Audio In/Out	1/1	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	Micro SD, Max. 512GB
Alarm In/Out	2/1	2/1	2/1	2/1	2/1	2/1
Ingress Protection	IP67, IK10	IP67, IK10	IP67, IK10	IK10	IK10	IP66
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-40°C~+60°C (-40°F~+140°F)	-40°C~+70°C (-40°F~+158°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-40°C~+65°C (-40°F~+149°F)
Power	DC24V, PoE+ (802.3at) Max.: 16 W	DC24V, PoE+ (802.3at) Max.: 16 W	DC24V, PoE+ (802.3at) Max.: 15.8 W	DC24V, PoE+ (802.3at) Max.: 16 W	DC24V, PoE+ (802.3at) Max.: 16 W	DC12V, PoE+ (802.3at) Max.: 21.5 W
<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; 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	SMD 4.0	SMD 3.0	SMD 4.0	SMD 4.0	SMD 3.0
Quick Pick	Supported	Supported	--	Supported	Supported	--
Auto Tracking	Auto Tracking 3.0	Auto Tracking 3.0	--	Auto Tracking 3.0	Auto Tracking 3.0	Auto Tracking
Face Detection	Supported (detects up to 32 faces simultaneously)	Supported (detects up to 32 faces simultaneously)	Supported (detects up to 32 faces simultaneously)	Supported (detects up to 32 faces simultaneously)	Supported (detects up to 32 faces simultaneously)	Supported (detects up to 32 faces simultaneously)








# NETWORK PTZ CAMERAS

## WizSense Series

### IR PTZ Camera







### IR Positioning System

Model	SD49825GB-HNR	SD49425GB-HNR	SD49225DB-HNY	SD49216DB-HNY	PTZ1A225-HNR-XA
Appearance	 <b>WizSense</b> 4K H.265+ Starlight	 <b>WizSense</b> H.265+ Starlight	 <b>WizSense</b> H.265+ Starlight	 <b>WizSense</b> H.265+ Starlight	 <b>WizSense</b> H.265+ Starlight
Image Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" 2MPCMOS
Lens	5mm~125mm (25x optical zoom)	5mm~125mm (25x optical zoom)	4.8mm~120mm (25x optical zoom)	5.0mm~80.0mm (16x optical zoom)	4.8mm~120mm (25x Optical zoom)
FOV-H	53.1°~3.4°	53.1°~3.4°	58.5°~2.8°	53.9°~4.6°	62.8°~2.6°
Min. Illumination	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)	0.005 Lux@F1.6 (Color) 0.0005 Lux@F1.6 (B/W)	0.005Lux/F1.6 (Color) 0Lux/F1.6 (IR on)
WDR	120 dB	120 dB	120 dB	120 dB	120dB
Max. IR Distance	100m (328.08 ft)	100m (328.08 ft)	100m (328.08 ft)	100m (328.08 ft)	150m (492.13ft)
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	8MP (3840x2160)	4MP (2560x1440)	1080P (1920x1080)	1080P (1920x1080)	1080P (1920x1080)
Frame Rate	30fps@8MP	30fps@4MP	30fps@2MP	30fps@2MP	60fps@1080P
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless Tilt: -15°~+90°, au~ flip 180°	Pan: 0°~360° endless Tilt: -15°~+90°, au~ flip 180°	Pan: 0°~360° endless Tilt: -15°~+90°, au~ flip 180°	Pan: 0°~360° endless Tilt: -15°~+90°, au~ flip 180°	Pan: 0°~360° endless Tilt:-90°~90° (Effective angle:-51°~+90° )
Preset Speed	Pan: 240°/s; Tilt: 200°/s	Pan: 240°/s; Tilt: 200°/s	Pan: 80°/s; Tilt: 80°/s	Pan: 80°/s; Tilt: 80°/s	Pan: 180° /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
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. 256GB
Alarm In/Out	2/1	2/1	2/1	2/1	2/1
Ingress Protection	IP66	IP66	IP66	IP66	IP67
Working Temperature	-40 °C~+65 °C (-40 °F~+149 °F)	-40 °C~+70 °C (-40 °F~+158 °F)	-40 °C~+60 °C (-40 °F~+140 °F)	-40 °C~+60 °C (-40 °F~+140 °F)	-40°C~+70°C (-40°F~+158°F)
Power	DC12V, PoE+ (802.3at) Max.: 20 W	DC12V, PoE+ (802.3at) Max.: 20 W	DC12V, PoE+ (802.3at) Max.: 20 W	DC12V, PoE+ (802.3at) Max.: 20 W	DC12V, POE+ (802.3at), Max. 22W
<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; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; linkage tracking
SMD	SMD 4.0	SMD 4.0	SMD 3.0	SMD 3.0	SMD 3.0
Quick Pick	Supported	Supported	--	--	--
Auto Tracking	--	--	--	--	Auto tracking 3.0
Face Detection	Supported (detects up to 32 faces simultaneously)	Supported (detects up to 32 faces simultaneously)	Supported (detects up to 32 faces simultaneously)	Supported (detects up to 32 faces simultaneously)	Supported (detects up to 32 faces simultaneously)

NETWORK PTZ CAMERAS

# NETWORK PTZ CAMERAS

## WizSense Series

	Active Deterrence Camera	Mini IR PTZ Camera	Mini PTZ Camera			
Model	SD3A205-GNP-PV	SD1A404XB-GNR	SD22204DB-GNY	SD22204DB-GNY-W	SD22404DB-GNY	SD22404DB-GNY-W
Appearance	 WizSense H.265+ Starlight	 WizSense H.265+ Starlight	 WizSense H.265+ Starlight	 WizSense H.265+ Starlight	 WizSense H.265+ Starlight Wi-Fi	 WizSense H.265+ Starlight Wi-Fi
Image Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Lens	2.7mm-13.5mm	2.8mm~12mm (4x Optical zoom)	2.8mm~12mm	2.8mm~12mm	2.8mm~12mm	2.8mm~12mm
FOV-H	101.6°~33.5°	96.9°~31.6°	99.1°~31.9°	99.1°~31.9°	90.3°~29.4°	90.3°~29.4°
Min. Illumination	0.002Lux/F1.8 (Color) 0Lux/F1.8 (IR on)	0.005Lux/F1.8 (Color) 0Lux/F1.8 (IR on)	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6
WDR	DWDR	120dB	DWDR	DWDR	DWDR	DWDR
Max. IR Distance	30m (98 ft)	15m (49.21 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	H.265+/H.265 H.264+/H.264
Max. Resolution	2MP (1920×1080)	4MP (2560×1440)	2MP (1920×1080)	2MP (1920×1080)	4MP (2560× 440)	4MP (2560×1440)
Frame Rate	30fps@1080P	30fps@4MP	30fps@1080P	30fps@1080P	30fps@4MP	30fps@4MP
Multi-streaming	3 streams	3 streams	3 streams	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~355° Tilt: -15°~90°	Pan: 0°~355° Tilt: 5°~90°	Pan: 0°~355° Tilt: 0°~90°	Pan: 0°~355° Tilt: 0°~90°	Pan: 0°~355° Tilt: 0°~90°	Pan: 0°~355° Tilt: 0°~90°
Preset Speed	Pan: 81°/s; Tilt: 43°/s	Pan: 80°/s; Tilt: 40°/s	Pan: 100°/s; Tilt: 60°/s	Pan: 100°/s; Tilt: 60°/s	Pan: 100°/s; Tilt: 60°/s	Pan: 100°/s; Tilt: 60°/s
Compatibility	ONVIF (Profile S&G&T); CGI	ONVIF (Profile S&G&T); CGI	ONVIF (Profile S&G&T); CGI	ONVIF (Profile S&G&T); CGI	ONVIF (Profile S&G&T); CGI	ONVIF (Profile S&G&T); CGI
Audio In/Out	1/1	1/1	--	--	--	--
Memory Slot	Micro SD, Max. 256GB	Micro SD, Max. 256GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB
Alarm In/Out	--	--	--	--	--	--
Ingress Protection	IP66	IP66, IK08	IP66, IK10	IP66, IK10	IP66, IK10	IP66, IK10
Working Temperature	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)
Power	DC12V, PoE (802.3af)	DC12V, POE (802.3af)	12 VDC, 1 A ± 10%, POE (802.3af)	12 VDC, 1 A ± 10%, POE (802.3af)	12 VDC, 1 A ± 10%, POE	12 VDC, 1 A ± 10%, POE
Artificial Intelligence						
Perimeter Protection	Tripwire, Intrusion (Human & Vehicle Classification), Abandoned/Missing Objects	Tripwire; Intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering	Tripwire; Intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Tripwire; Intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Tripwire; Intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification	Tripwire; Intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification
SMD	SMD PLUS	SMD 3.0	SMD 3.0	SMD 3.0	SMD 3.0	SMD 3.0
Quick Pick	--	--	--	--	--	--
Auto Tracking	--	--	--	--	--	--
Face Detection	--	Supported	Supported	Supported	Supported	Supported



# Pro Series PTZ Camera

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



## Rich Choices

Wide range of housings and models to suit all requirements.



## Optimized Image

High quality images using Starlight technology.



## PFA

Improves focusing performance to a new level.









## Powerful Protection

IP67 & IK10 ratings ensure that the cameras can withstand tough conditions.

# NETWORK PTZ CAMERAS

## Pro Series

NETWORK PTZ CAMERAS

	Vandal-proof PTZ Camera		In-ceiling PTZ Camera
Model	SD40212T-HN (-S2)	SD42212T-HN (-S2)	SD42C212T-HN (-S2)
Appearance	 	  	 
Image Sensor	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS	1/2.8" 2MP STARVIS™ CMOS
Lens	5.3~64mm (12x Optical zoom)	5.3~64mm (12x Optical zoom)	5.3~64mm (12x Optical zoom)
FOV-H	58.2°~4.8°	58.2°~4.8°	58.2°~4.8°
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/F1.6 (Color) 0.0005Lux/F1.6 (B/W)
WDR	120dB	120dB	120dB
Max. IR Distance	--	--	--
Video Compression	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264	H.265+/H.265H.264+/H.264
Max. Resolution	1080P (1920 × 1080)	1080P (1920 × 1080)	1080P (1920 × 1080)
Frame Rate	30fps@1080P	30fps@1080P	30fps@1080P
Multi-streaming	3 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~360° endless Tilt: -2°~90°	Pan: 0°~360° endless Tilt: -2°~90°	Pan: 0°~360° endless Tilt: -2°~90°
Preset Speed	Pan: 300°/s, Tilt: 200°/s	Pan: 300°/s, Tilt: 200°/s	Pan: 300°/s, Tilt: 200°/s
Intelligent Video	Tripwire, Intrusion, Abandoned/Missing Objects, Face Detection	Tripwire, Intrusion, Abandoned/Missing Objects, Face Detection	Tripwire, Intrusion, Abandoned/Missing Objects, Face Detection
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	IP66, IK10	IP66, IK10	IK10
Working Temperature	-40°C~+60°C (-40°F~+140°F)	-30°C~+60°C (-22°F~+140°F)	-30°C~+60°C (-22°F~+140°F)
Power	DC 24V/2.5A(±25%), PoE+(802.3at)	DC 24V/2.5A(±25%), PoE+(802.3at)	DC 24V/2.5A(±25%), PoE+(802.3at)



# Lite Series PTZ Camera

The Lite Series PTZ offers a cost/performance solution suitable for a wide range of applications. Its compact design based on Dahua quality standards and assurance enables the products in the entire series to meet customer's requirements.



## Mini IR PTZ

Pan, tilt, zoom and IR functions in compact housing.



## Active Deterrence

Supports light alarm and voice alarm that can help warn off and deter intruders in time.



## Rich Choices

Wide range of housings and models to suit all requirements.







## Cost-effective

Performance and quality are combined at an affordable price.







# NETWORK PTZ CAMERAS

## Lite Series

	Full-color PT Camera		Mini PTZ Camera	
Model	SD3A400-GN-A-PV	SD3A200-GN-A-PV	SD29204UE-GN	SD29204UE-GN-W
Appearance	 Full-color H.265+	 Full-color H.265+	 H.265+ Starlight	 H.265+ Starlight Wi-Fi
Image Sensor	1/3" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Lens	4 mm	4 mm	2.7mm~11mm	2.7mm~11mm
FOV-H	80.2°	88.9°	112.5° ~ 30°	112.5° ~ 30°
Min. Illumination	Color: 0.002Lux@F1.6; B/W: 0.0002 Lux@F1.6; 0 Lux (illuminator on)	Color: 0.002 Lux@F1.6 B/W: 0.0002 Lux@F1.6 0 Lux (illuminator on)	Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; 0Lux@F1.6 (IR on)	Color: 0.005Lux@F1.6; B/W: 0.0005Lux@F1.6; 0Lux@F1.6 (IR on)
WDR	DWDR	DWDR	120dB	120dB
Max. IR Distance	30 m (98.42 ft)	30m (98.42 ft)	30 m (98.42 ft)	30 m (98.42 ft)
Video Compression	Smart H.265; H.265; Smart H.264; H.264; H.264B; MJPEG (Sub Stream)	Smart H.265; H.265; Smart H.264; H.264; H.264B; MJPEG (Sub Stream)	H.265/H.264/MJPEG (Sub Stream)	H.265/H.264/MJPEG (Sub Stream)
Max. Resolution	4MP(2560x1440)	1080P(1920x1080)	1080P(1920x1080)	1080P(1920x1080)
Frame Rate	30fp@4M	30fp@4M	30fps@1080P	30fps@1080P
Multi-streaming	2 Streams	2 Streams	3 Streams	3 Streams
Pan/Tilt	Pan: 0° to 355°; Tilt:-15° to 90°	Pan: 0° to 355°; Tilt:-15° to 90°	Pan: 0° ~ 360°; Tilt: 0° ~ 90°	Pan: 0° ~ 360°; Tilt: 0° ~ 90°
Preset Speed	Pan: 26°/s; Tilt: 17.5°/s	Pan: 26°/s; Tilt: 17.5°/s	Pan: 100° /s; Tilt: 60° /s	Pan: 100° /s; Tilt: 60° /s
General Intelligence	Tripwire, Intrusion,	Tripwire, Intrusion,	Tripwire, Intrusion, Abandoned/Missing Objects, Face Detection	Tripwire, Intrusion, Abandoned/Missing Objects, Face Detection
Compatibility	ONVIF (Profile S&G&T)	ONVIF (Profile S&G&T)	ONVIF (Profile S&G&T); CGI	ONVIF (Profile S&G&T); CGI
Audio In/Out	1/1	1/1	Built-in Mic	Built-in Mic
Memory Slot	FTP; Micro SD card (256G)	FTP; Micro SD card (256G)	NAS (Network Attached Storage), Local PC for instant recording, Micro SD card 128GB	NAS (Network Attached Storage), Local PC for instant recording, Micro SD card 128GB
Alarm In/Out	--	NA	--	--
Ingress Protection	IP66	IP66	--	--
Working Temperature	-30°C ~ 60°C (-22°F ~ +140°F)	-30°C ~ 60°C (-22°F ~ +140°F)	-30°C ~ 60°C (-22°F ~ +140°F)	-30°C ~ 60°C (-22°F ~ +140°F)
Power	12 VDC/1.5A±10%, PoE (802.3af)	12 VDC/1.5A±10%, PoE (802.3af)	DC 12V/1.5A, PoE (802.3af)	DC 12V/1.5A

# NETWORK PTZ CAMERAS

## Lite Series

	Full-color PT Camera				Mini IR PTZ Camera	
Model	SD2A500HB-GN-A-PV-S2	SD2A200HB-GN-A-PV-S2	SD2A500HB-GN-AW-PV-S2	SD2A200HB-GN-AW-PV-S2	SD1A203T-GN	SD1A203T-GN-W
Appearance	 Full-color H.265+	 Full-color H.265+	 Full-color H.265+ Wi-Fi	 Full-color H.265+ Wi-Fi	 H.265+ Starlight	 H.265+ Starlight Wi-Fi
Image Sensor	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Lens	4mm	4mm	4mm	4mm	2.7mm~8.1mm	2.7mm~8.1mm
FOV-H	80.4°	86.8°	80.4°	86.8°	105.6°~35.2°	105.6°~35.2°
Min. Illumination	0.05Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.05Lux/F2.0 (Color) 0Lux/F2.0 (IR on)	0.05Lux/F1.6 (Color) 0Lux/F1.6 (IR on)	0.05Lux/F2.0 (Color) 0Lux/F2.0 (IR on)	Color: 0.005Lux@F1.8; B/W: 0.0005Lux@F1.8; 0Lux@F1.8 (IR on)	Color: 0.005Lux@F1.8; B/W: 0.0005Lux@F1.8; 0Lux@F1.8 (IR on)
WDR	DWDR	DWDR	DWDR	DWDR	120dB	120dB
Max. IR Distance	30m (98.42ft)	30m (98.42ft)	30m (98.42ft)	30m (98.42ft)	15m (49.2ft)	15m (49.2ft)
Video Compression	Smart H.265; H.265; Smart H.264; H.264; H.264B; MJPEG (Sub Stream)	Smart H.265; H.265; Smart H.264; H.264; H.264B; MJPEG (Sub Stream)	Smart H.265; H.265; Smart H.264; H.264; H.264B; MJPEG (Sub Stream)	Smart H.265; H.265; Smart H.264; H.264; H.264B; MJPEG (Sub Stream)	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
Max. Resolution	5MP (2560×1920)	1080P (1920×1080)	5MP (2560×1920)	1080P (1920×1080)	1080P (1920×1080)	1080P (1920×1080)
Frame Rate	20fps@5MP	30fps@1080P	20fps@5MP	30fps@1080P	30fps@1080P	30fps@1080P
Multi-streaming	2 streams	2 streams	2 streams	2 streams	3 streams	3 streams
Pan/Tilt	Pan: 0°~345°; Tilt: 0°~80°	Pan: 0°~345°; Tilt: 0°~80°	Pan: 0°~345°; Tilt: 0°~80°	Pan: 0°~345°; Tilt: 0°~80°	Pan: 0°~355°; Tilt: 5°~90°	Pan: 0°~355°; Tilt: 5°~90°
Preset Speed	Pan: 62°/s; Tilt: 36°/s	Pan: 62°/s; Tilt: 36°/s	Pan: 62°/s; Tilt: 36°/s	Pan: 62°/s; Tilt: 36°/s	Pan: 80°/s; Tilt: 40°/s	Pan: 80°/s; Tilt: 40°/s
General Intelligence	Tripwire; Intrusion	Tripwire; Intrusion	Tripwire; Intrusion	Tripwire; Intrusion	Tripwire, Intrusion, Abandoned/Missing Objects, Face Detection	Tripwire, Intrusion, Abandoned/Missing Objects, Face Detection
Compatibility	ONVIF (Profile S&G&T); CGI	ONVIF (Profile S&G&T); CGI	ONVIF (Profile S&G&T); CGI	ONVIF (Profile S&G&T); CGI	ONVIF (Profile S&G&T); CGI	ONVIF (Profile S&G&T); CGI
Audio In/Out	1/1	1/1	1/1	1/1	1/1	1/1
Memory Slot	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	Micro SD, Max. 512GB	NAS (Network Attached Storage), Local PC for instant recording, Micro SD card 256GB	NAS (Network Attached Storage), Local PC for instant recording, Micro SD card 256GB
Alarm In/Out	--	--	--	--	--	--
Ingress Protection	IP66	IP66	IP66	IP66	IP66, IK08	IP66, IK08
Working Temperature	-30°C~+55°C (-22°F~+131°F)	-30°C~+55°C (-22°F~+131°F)	-30°C~+55°C (-22°F~+131°F)	-30°C~+55°C (-22°F~+131°F)	-30°C~60°C (-22°F~+140°F)	-30°C~60°C (-22°F~+140°F)
Power	12 VDC/1.5 A ± 10%, PoE (802.3af)	12 VDC/1.5 A ± 10%, PoE (802.3af)	12 VDC/1.5 A ± 10%	12 VDC/1.5 A ± 10%	DC 12V/1.5A, PoE(802.3af)	DC 12V/1.5A

NETWORK PTZ CAMERAS

# NETWORK VIDEO RECORDERS







# WizSense Series NVR

The WizSense NVRs are entry-level AI products that offer reasonable prices and easy configuration, allowing them to meet the needs of ordinary customers. It is an ideal choice for SMB solution. The WizSense series has excellent decoding capability and powerful AI features. It provides potential risk prevention and real-time alarm. Additionally, this series features a new function called Quick Pick that can search human/vehicle targets using AI algorithm, significantly saving labor costs and increasing accuracy of results.



## Decoding Upgrade

The decoding capability is greatly improved (up to 32 channels with 1080P), providing users with multi-channel and high-definition monitoring images.



## AI by Device

Supports SMD Plus, Perimeter Protection and Face Recognition, offering potential risk prevention and real-time alarm.



## Quick Pick

With IPC-3 Series, the Quick Pick technology can quickly identify human/vehicle targets of interest, saving labor costs and increasing accuracy of results.







## Rich Features

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

# NETWORK VIDEO RECORDERS

## WizSense Series


### WizSense Series

Model	NVR5064-EI	NVR5032-EI	NVR5016-EI	NVR5864-16P-EI	NVR5864-EI
Appearance					
Processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
IP Video Inputs	64 channels	32 channels	16 channels	64 channels	64 channels
Max Input/Record	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps
Max Decoding	32ch@1080P	32ch@1080P	32ch@1080P	32ch@1080P	32ch@1080P
Display	2HDMI, 2VGA	2HDMI, 2VGA	2HDMI, 2VGA	2HDMI, 2VGA	2HDMI, 2VGA
Max HDD	16x16TB	16x16TB	16x16TB	8x16TB	8x16TB
RAID	RAID 0/1/5/6/10	RAID 0/1/5/6/10	RAID 0/1/5/6/10	RAID 0/1/5/6/10	RAID 0/1/5/6/10
eSATA/Mini SAS	1/0	1/0	1/0	1/0	1/0
Audio In/Out	1/2, 2-way	1/2, 2-way	1/2, 2-way	1/2, 2-way	1/2, 2-way
Alarm In/Out	16/8	16/8	16/8	16/8	16/8
Ethernet	2 Gigabit Ports	2 Gigabit Ports	2 Gigabit Ports	1 Gigabit Port	2 Gigabit Ports
PoE	--	--	--	16 Ports (IEEE802.3at/af), Max 130W 1-8 ports support ePoE & EoC	--
USB	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0
Power	AC 100V~240V <15W (Without HDD)	AC 100V~240V <15W (Without HDD)	AC 100V~240V <15W (Without HDD)	100~240 VAC <13W (Without HDD)	100~240 VAC <13W (Without HDD)
Star Features	Fisheye Dewarp, POS, EPTZ	Fisheye Dewarp, POS, EPTZ	Fisheye Dewarp, POS, EPTZ	Fisheye Dewarp, POS, EPTZ, Plug & Play	Fisheye Dewarp, POS, EPTZ
<b>Artificial Intelligence by Device</b>					
Perimeter Protection	Up to 4-ch perimeter protection	Up to 4-ch perimeter protection	Up to 4-ch perimeter protection	Up to 4-ch perimeter protection	Up to 4-ch perimeter protection
Face Recognition	Up to 2-ch face recognition with normal camera; up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 2-ch face recognition with normal camera; up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 2-ch face recognition with normal camera; up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 2-ch face recognition with normal camera; up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 2-ch face recognition with normal camera; up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total
SMD Plus	Up to 8-ch SMD Plus	Up to 8-ch SMD Plus	Up to 8-ch SMD Plus	Up to 8-ch SMD Plus	Up to 8-ch SMD Plus
Image Search	Search by face images	Search by face images	Search by face images	Search by face images	Search by face images
<b>Artificial Intelligence by Camera</b>					
Perimeter Protection	Supported	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported	Supported
Metadata	Supported	Supported	Supported	Supported	Supported
SMD Plus	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported	Supported
ANPR	Supported	Supported	Supported	Supported	Supported

# NETWORK VIDEO RECORDERS

## WizSense Series




### WizSense Series

Model	NVR5832-16P-EI	NVR5832-EI	NVR5816-16P-EI	NVR5816-EI	NVR5464-16P-EI
Appearance					
Processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
IP Video Inputs	32 channels	32 channels	16 channels	16 channels	64 channels
Max Input/Record	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps
Max Decoding	32ch@1080P	32ch@1080P	32ch@1080P	32ch@1080P	32ch@1080P
Display	2HDMI, 2VGA	2HDMI, 2VGA	2HDMI, 2VGA	2HDMI, 2VGA	2HDMI, 2VGA
Max HDD	8x16TB	8x16TB	8x16TB	8x16TB	4x16TB
RAID	RAID 0/1/5/6/10	RAID 0/1/5/6/10	RAID 0/1/5/6/10	RAID 0/1/5/6/10	--
eSATA/Mini SAS	1/0	1/0	1/0	1/0	1/0
Audio In/Out	1/2, 2-way	1/2, 2-way	1/2, 2-way	1/2, 2-way	1/2, 2-way
Alarm In/Out	16/8	16/8	16/8	16/8	16/6
Ethernet	1 Gigabit Port	2 Gigabit Ports	1 Gigabit Port	2 Gigabit Ports	1 Gigabit Port
PoE	16 Ports (IEEE802.3at/af), Max 130W 1-8 ports support ePoE & EoC	--	16 Ports (IEEE802.3at/af), Max 130W 1-8 ports support ePoE & EoC	--	16 Ports (IEEE802.3at/af), Max 130W 1-8 ports support ePoE & EoC
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, 1 USB2.0
Power	100~240 VAC <13W (Without HDD)	100~240 VAC <13W (Without HDD)	100~240 VAC <13W (Without HDD)	100~240 VAC <13W (Without HDD)	100~240 VAC <13W (Without HDD)
Star Features	Fisheye Dewarp, POS, EPTZ, Plug & Play	Fisheye Dewarp, POS, EPTZ	Fisheye Dewarp, POS, EPTZ, Plug & Play	Fisheye Dewarp, POS, EPTZ	Fisheye Dewarp, POS, EPTZ, Plug & Play
<b>Artificial Intelligence by Device</b>					
Perimeter Protection	Up to 4-ch perimeter protection	Up to 4-ch perimeter protection	Up to 4-ch perimeter protection	Up to 4-ch perimeter protection	Up to 4-ch perimeter protection
Face Recognition	Up to 2-ch face recognition with normal camera; Up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 2-ch face recognition with normal camera; Up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 2-ch face recognition with normal camera; Up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 2-ch face recognition with normal camera; Up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 2-ch face recognition with normal camera; Up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total
SMD Plus	Up to 8-ch SMD Plus	Up to 8-ch SMD Plus	Up to 8-ch SMD Plus	Up to 8-ch SMD Plus	Up to 8-ch SMD Plus
Image Search	Search by face images	Search by face images	Search by face images	Search by face images	Search by face images
<b>Artificial Intelligence by Camera</b>					
Perimeter Protection	Supported	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported	Supported
Metadata	Supported	Supported	Supported	Supported	Supported
SMD Plus	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported	Supported
ANPR	Supported	Supported	Supported	Supported	Supported

# NETWORK VIDEO RECORDERS

## WizSense Series

### WizSense Series

Model	NVR5464-EI	NVR5432-16P-EI	NVR5432-EI	NVR5416-16P-EI	NVR5416-EI
Appearance					
Processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
IP Video Inputs	64 channels	32 channels	32 channels	16 channels	16 channels
Max Input/Record	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps
Max Decoding	32ch@1080P	32ch@1080P	32ch@1080P	32ch@1080P	32ch@1080P
Display	2HDMI, 2VGA	2HDMI, 2VGA	2HDMI, 2VGA	2HDMI, 2VGA	2HDMI, 2VGA
Max HDD	4x16TB	4x16TB	4x16TB	4x16TB	4x16TB
RAID	--	--	--	--	--
eSATA/Mini SAS	1/0	1/0	1/0	1/0	1/0
Audio In/Out	1/2, 2-way	1/2, 2-way	1/2, 2-way	1/2, 2-way	1/2, 2-way
Alarm In/Out	16/6	16/6	16/6	16/6	16/6
Ethernet	2 Gigabit Ports	1 Gigabit Port	2 Gigabit Ports	1 Gigabit Port	2 Gigabit Ports
PoE	--	16 Ports (IEEE802.3at/af), Max 130W 1-8 ports support ePoE & EoC	--	16 Ports (IEEE802.3at/af), Max 130W 1-8 ports support ePoE & EoC	--
USB	2 USB3.0, 1 USB2.0	2 USB3.0, 1 USB2.0	2 USB3.0, 1 USB2.0	2 USB3.0, 1 USB2.0	2 USB3.0, 1 USB2.0
Power	100~240 VAC <13W (Without HDD)	100~240 VAC <13W (Without HDD)	100~240 VAC <13W (Without HDD)	100~240 VAC <13W (Without HDD)	100~240 VAC <13W (Without HDD)
Star Features	Fisheye Dewarp, POS, EPTZ	Fisheye Dewarp, POS, EPTZ, Plug & Play	Fisheye Dewarp, POS, EPTZ	Fisheye Dewarp, POS, EPTZ, Plug & Play	Fisheye Dewarp, POS, EPTZ
<b>Artificial Intelligence by Device</b>					
Perimeter Protection	Up to 4-ch perimeter protection	Up to 4-ch perimeter protection	Up to 4-ch perimeter protection	Up to 4-ch perimeter protection	Up to 4-ch perimeter protection
Face Recognition	Up to 2-ch face recognition with normal camera; Up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 2-ch face recognition with normal camera; Up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 2-ch face recognition with normal camera; Up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 2-ch face recognition with normal camera; Up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 2-ch face recognition with normal camera; Up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total
SMD Plus	Up to 8-ch SMD Plus	Up to 8-ch SMD Plus	Up to 8-ch SMD Plus	Up to 8-ch SMD Plus	Up to 8-ch SMD Plus
Image Search	Search by face images	Search by face images	Search by face images	Search by face images	Search by face images
<b>Artificial Intelligence by Camera</b>					
Perimeter Protection	Supported	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported	Supported
Metadata	Supported	Supported	Supported	Supported	Supported
SMD Plus	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported	Supported
ANPR	Supported	Supported	Supported	Supported	Supported

# NETWORK VIDEO RECORDERS

## WizSense Series

### WizSense Series

Model	NVR5232-16P-EI	NVR5232-8P-EI	NVR5232-EI	NVR5216-16P-EI	NVR5216-8P-EI
Appearance					
Processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
IP Video Inputs	32 channels	32 channels	32 channels	16 channels	16 channels
Max Input/Record	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps
Max Decoding	32ch@1080P	32ch@1080P	32ch@1080P	32ch@1080P	32ch@1080P
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	2x16TB	2x16TB	2x16TB	2x16TB	2x16TB
RAID	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	4/2	4/2	4/2	4/2	4/2
Ethernet	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port
PoE	16 Ports (IEEE802.3at/af), Max 130W 1-8 ports support ePoE & EoC	8 Ports (IEEE802.3at/af), Max 130W 1-8 ports support ePoE & EoC	--	16 Ports (IEEE802.3at/af), Max 130W 1-8 ports support ePoE & EoC	8 Ports (IEEE802.3at/af), Max 130W 1-8 ports support ePoE & EoC
USB	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0
Power	100~240 VAC <10W (Without HDD)	100~240 VAC <10W (Without HDD)	12 VDC, 4 A <10W (Without HDD)	100~240 VAC <10W (Without HDD)	100~240 VAC <10W (Without HDD)
Star Features	Fisheye Dewarp, POS, EPTZ, Plug & Play	Fisheye Dewarp, POS, EPTZ, Plug & Play	Fisheye Dewarp, POS, EPTZ	Fisheye Dewarp, POS, EPTZ, Plug & Play	Fisheye Dewarp, POS, EPTZ, Plug & Play

### Artificial Intelligence by Device

Perimeter Protection	Up to 4-ch perimeter protection	Up to 4-ch perimeter protection	Up to 4-ch perimeter protection	Up to 4-ch perimeter protection	Up to 4-ch perimeter protection
Face Recognition	Up to 2-ch face recognition with normal camera; Up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 2-ch face recognition with normal camera; Up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 2-ch face recognition with normal camera; Up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 2-ch face recognition with normal camera; Up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 2-ch face recognition with normal camera; Up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total
SMD Plus	Up to 8-ch SMD Plus	Up to 8-ch SMD Plus	Up to 8-ch SMD Plus	Up to 8-ch SMD Plus	Up to 8-ch SMD Plus
Image Search	Search by face images	Search by face images	Search by face images	Search by face images	Search by face images

### Artificial Intelligence by Camera

Perimeter Protection	Supported	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported	Supported
Metadata	Supported	Supported	Supported	Supported	Supported
SMD Plus	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported	Supported
ANPR	Supported	Supported	Supported	Supported	Supported

# NETWORK VIDEO RECORDERS

## WizSense Series

### WizSense Series

Model	NVR5216-EI	NVR5208-8P-EI	NVR5208-EI	NVR4832-16P-EI	NVR4832-EI
Appearance					
Processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
IP Video Inputs	16 channels	8 channels	8 channels	32 channels	32 channels
Max Input/Record	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps	256Mbps/256Mbps	256Mbps/256Mbps
Max Decoding	32ch@1080P	32ch@1080P	32ch@1080P	16ch@1080P	16ch@1080P
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	2x16TB	2x16TB	2x16TB	8x16TB	8x16TB
RAID	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	4/2	4/2	4/2	16/4	16/4
Ethernet	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	2 Gigabit Port
PoE	--	8 Ports (IEEE802.3at/af), Max 72W 1-8 ports support ePoE & EoC	--	16 Ports (IEEE802.3at/af) Max 150W	--
USB	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0
Power	12 VDC, 4 A <10W (Without HDD)	100~240 VAC <10W (Without HDD)	12 VDC, 4 A <10W (Without HDD)	100~240 VAC <10W (Without HDD)	100~240 VAC <8W (Without HDD)
Star Features	Fisheye Dewarp, POS, EPTZ	Fisheye Dewarp, POS, EPTZ, Plug & Play	Fisheye Dewarp, POS, EPTZ	Quick Pick, EPTZ, Plug & Play	Quick Pick, EPTZ
<b>Artificial Intelligence by Device</b>					
Perimeter Protection	Up to 4-ch perimeter protection	Up to 4-ch perimeter protection	Up to 4-ch perimeter protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection
Face Recognition	Up to 2-ch face recognition with normal camera; Up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 2-ch face recognition with normal camera; Up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 2-ch face recognition with normal camera; Up to 16-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total
SMD Plus	Up to 8-ch SMD Plus	Up to 8-ch SMD Plus	Up to 8-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus
Image Search	Search by face images	Search by face images	Search by face images	Search by face images	Search by face images
<b>Artificial Intelligence by Camera</b>					
Perimeter Protection	Supported	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported	Supported
Metadata	Supported	Supported	Supported	--	--
SMD Plus	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported	Supported
ANPR	Supported	Supported	Supported	Supported	Supported

# NETWORK VIDEO RECORDERS

## WizSense Series

### WizSense Series

Model	NVR4816-16P-EI	NVR4816-EI	NVR4432-16P-EI	NVR4432-EI	NVR4416-16P-EI
Appearance	 <b>Quick Pick</b>	 <b>Quick Pick</b>	 <b>Quick Pick</b>	 <b>Quick Pick</b>	 <b>Quick Pick</b>
Processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
IP Video Inputs	16 channels	16 channels	32 channels	32 channels	16 channels
Max Input/Record	256Mbps/256Mbps	256Mbps/256Mbps	256Mbps/256Mbps	256Mbps/256Mbps	256Mbps/256Mbps
Max Decoding	16ch@1080P	16ch@1080P	16ch@1080P	16ch@1080P	16ch@1080P
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	8x16TB	8x16TB	4x16TB	4x16TB	4x16TB
RAID	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	16/4	16/4	16/4	16/4	16/4
Ethernet	1 Gigabit Port	2 Gigabit Ports	1 Gigabit Port	2 Gigabit Ports	1 Gigabit Port
PoE	16 Ports (IEEE802.3at/af) Max 150W	--	16 Ports (IEEE802.3at/af) Max 150W	--	16 Ports (IEEE802.3at/af) Max 130W
USB	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0	1 USB3.0, 1 USB2.0
Power	100~240 VAC <10W (Without HDD)	100~240 VAC <8W (Without HDD)	100~240 VAC <10W (Without HDD)	100~240 VAC <10W (Without HDD)	100~240 VAC <10W (Without HDD)
Star Features	Quick Pick, EPTZ, Plug & Play	Quick Pick, EPTZ	Quick Pick, EPTZ, Plug & Play	Quick Pick, EPTZ	Quick Pick, EPTZ, Plug & Play

### Artificial Intelligence by Device

Perimeter Protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection
Face Recognition	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total
SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus
Image Search	Search by face images	Search by face images	Search by face images	Search by face images	Search by face images

### Artificial Intelligence by Camera

Perimeter Protection	Supported	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported	Supported
Metadata	--	--	--	--	--
SMD Plus	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported	Supported
ANPR	Supported	Supported	Supported	Supported	Supported

# NETWORK VIDEO RECORDERS

## WizSense Series

### WizSense Series




Model	NVR4416-EI	NVR4232-16P-EI	NVR4232-EI	NVR4216-16P-EI	NVR4216-EI
Appearance	 <b>Wiz Sense</b> <b>Quick Pick</b>	 <b>Wiz Sense</b> <b>Quick Pick</b>	 <b>Wiz Sense</b> <b>Quick Pick</b>	 <b>Wiz Sense</b> <b>Quick Pick</b>	 <b>Wiz Sense</b> <b>Quick Pick</b>
Processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
IP Video Inputs	16 channels	32 channels	32 channels	16 channels	16 channels
Max Input/Record	256Mbps/256Mbps	256Mbps/256Mbps	256Mbps/256Mbps	256Mbps/256Mbps	256Mbps/256Mbps
Max Decoding	16ch@1080P	16ch@1080P	16ch@1080P	16ch@1080P	16ch@1080P
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	4x16TB	2x16TB	2x16TB	2x16TB	2x16TB
RAID	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	16/4	4/2	4/2	4/2	4/2
Ethernet	2 Gigabit Ports	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port
PoE	--	16 Ports (IEEE802.3at/af) Max 130W	--	16 Ports (IEEE802.3at/af) Max 130W	--
USB	1 USB3.0, 1 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	100~240 VAC <10W (Without HDD)	100~240 VAC, 3.5 A <10W (Without HDD)	12 VDC, 4 A <10W (Without HDD)	100~240 VAC, 3.5 A <10W (Without HDD)	12 VDC, 4 A <10W (Without HDD)
Star Features	Quick Pick, EPTZ	Plug & Play, Quick Pick	Quick Pick	Plug & Play, Quick Pick	Quick Pick
<b>Artificial Intelligence by Device</b>					
Perimeter Protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection
Face Recognition	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total
SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus
Image Search	Search by face images	Search by face images	Search by face images	Search by face images	Search by face images
<b>Artificial Intelligence by Camera</b>					
Perimeter Protection	Supported	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported	Supported
Metadata	--	--	--	--	--
SMD Plus	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported	Supported
ANPR	Supported	Supported	Supported	Supported	Supported



# NETWORK VIDEO RECORDERS

## WizSense Series

### WizSense Series

Model	NVR4208-8P-EI	NVR4208-EI	NVR4204-P-EI	NVR4204-EI	NVR4116HS-8P-EI
Appearance	 <b>Wiz Sense</b> <b>Quick Pick</b>	 <b>Wiz Sense</b> <b>Quick Pick</b>	 <b>Wiz Sense</b> <b>Quick Pick</b>	 <b>Wiz Sense</b> <b>Quick Pick</b>	 <b>Wiz Sense</b> <b>Quick Pick</b>
Processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
IP Video Inputs	8 channels	8 channels	4 channels	4 channels	16 channels
Max Input/Record	256Mbps/256Mbps	256Mbps/256Mbps	256Mbps/256Mbps	256Mbps/256Mbps	80Mbps/80Mbps
Max Decoding	16ch@1080P	16ch@1080P	16ch@1080P	16ch@1080P	16ch@1080P
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	2x16TB	2x16TB	2x16TB	2x16TB	1x16TB
RAID	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	4/2	4/2	4/2	4/2	--
Ethernet	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port
PoE	8 Ports (IEEE802.3at/af) Max 72W	--	4 Ports (IEEE802.3at/af) Max 36W	--	8 Ports (IEEE802.3at/af) Max 72W
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	100~240 VAC <10W (Without HDD)	12 VDC, 4 A <10W (Without HDD)	53 VDC, 1.812 A <10W (Without HDD)	12 VDC, 4 A <10W (Without HDD)	53 VDC, 1.812 A <10W (Without HDD)
Star Features	Plug & Play, Quick Pick	Quick Pick	Plug & Play, Quick Pick	Quick Pick	Plug & Play, Quick Pick
<b>Artificial Intelligence by Device</b>					
Perimeter Protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection
Face Recognition	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total
SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus
Image Search	Search by face images	Search by face images	Search by face images	Search by face images	Search by face images
<b>Artificial Intelligence by Camera</b>					
Perimeter Protection	Supported	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported	Supported
Metadata	--	--	--	--	--
SMD Plus	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported	Supported
ANPR	Supported	Supported	Supported	Supported	Supported

# NETWORK VIDEO RECORDERS

## WizSense Series

### WizSense Series

Model	NVR4116-8P-EI	NVR4116HS-EI	NVR4116-EI	NVR4108HS-8P-EI	NVR4108HS-P-EI
Appearance	 Quick Pick	 Quick Pick	 Quick Pick	 Quick Pick	 Quick Pick
Processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
IP Video Inputs	16 channels	16 channels	16 channels	8 channels	8 channels
Max Input/Record	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps
Max Decoding	16ch@1080P	16ch@1080P	16ch@1080P	16ch@1080P	16ch@1080P
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	1x16TB	1x16TB	1x16TB	1x16TB	1x16TB
RAID	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	--	--	--	--	--
Ethernet	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1x100M Port
PoE	8 Ports (IEEE802.3at/af) Max 72W	--	--	8 Ports (IEEE802.3at/af) Max 72W	4 Ports (IEEE802.3at/af) Max 36W
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	53 VDC, 1.812 A <10W (Without HDD)	12 VDC, 2 A <10W (Without HDD)	12 VDC, 2 A <10W (Without HDD)	53 VDC, 1.812 A <10W (Without HDD)	53 VDC, 1.226 A <10W (Without HDD)
Star Features	Plug & Play, Quick Pick	Quick Pick	Quick Pick	Plug & Play, Quick Pick	Plug & Play, Quick Pick

### Artificial Intelligence by Device

Perimeter Protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection
Face Recognition	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total
SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus
Image Search	Search by face images	Search by face images	Search by face images	Search by face images	Search by face images

### Artificial Intelligence by Camera

Perimeter Protection	Supported	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported	Supported
Metadata	--	--	--	--	--
SMD Plus	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported	Supported
ANPR	Supported	Supported	Supported	Supported	Supported

# NETWORK VIDEO RECORDERS

## WizSense Series





### WizSense Series

Model	NVR4108HS-EI	NVR4108-8P-EI	NVR4108-P-EI	NVR4108-EI	NVR4104HS-P-EI
Appearance	 <b>Wiz Sense</b> <b>Quick Pick</b>	 <b>Wiz Sense</b> <b>Quick Pick</b>	 <b>Wiz Sense</b> <b>Quick Pick</b>	 <b>Wiz Sense</b> <b>Quick Pick</b>	 <b>Wiz Sense</b> <b>Quick Pick</b>
Processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
IP Video Inputs	8 channels	8 channels	8 channels	8 channels	4 channels
Max Input/Record	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps
Max Decoding	16ch@1080P	16ch@1080P	16ch@1080P	16ch@1080P	16ch@1080P
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	1x16TB	1x16TB	1x16TB	1x16TB	1x16TB
RAID	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	--	--	--	--	--
Ethernet	1x100M Port	1 Gigabit Port	1x100M Port	1x100M Port	1x100M Port
PoE	--	8 Ports (IEEE802.3at/af) Max 72W	4 Ports (IEEE802.3at/af) Max 36W	--	4 Ports (IEEE802.3at/af) Max 36W
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	12 VDC, 2 A <7.8W (Without HDD)	53 VDC, 1.812 A <10W (Without HDD)	53 VDC, 1.226 A <10W (Without HDD)	12 VDC, 2 A <10W (Without HDD)	53 VDC, 1.226 A <10W (Without HDD)
Star Features	Quick Pick	Plug & Play, Quick Pick	Plug & Play, Quick Pick	Quick Pick	Plug & Play, Quick Pick
<b>Artificial Intelligence by Device</b>					
Perimeter Protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection
Face Recognition	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total
SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus
Image Search	Search by face images	Search by face images	Search by face images	Search by face images	Search by face images
<b>Artificial Intelligence by Camera</b>					
Perimeter Protection	Supported	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported	Supported
Metadata	--	--	--	--	--
SMD Plus	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported
Heat Map	Supported	Supported	Supported	Supported	Supported
ANPR	Supported	Supported	Supported	Supported	Supported

# NETWORK VIDEO RECORDERS

## WizSense Series




### WizSense Series

Model	NVR4104HS-EI	NVR4104-P-EI	NVR4104-EI	NVR2216-I2	NVR2208-I2
Appearance	 <b>WizSense</b> Quick Pick	 <b>WizSense</b> Quick Pick	 <b>WizSense</b> Quick Pick	 <b>WizSense</b> Quick Pick	 <b>WizSense</b> Quick Pick
Processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Multi-core embedded processor	Multi-core embedded processor
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG
IP Video Inputs	4 channels	4 channels	4 channels	16 channels	8 channels
Max Input/Record	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	144Mbps/144Mbps	80Mbps/80Mbps
Max Decoding	16ch@1080P	16ch@1080P	16ch@1080P	6ch@1080P	6ch@1080P
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	1x16TB	1x16TB	1x16TB	2x10TB	2x10TB
RAID	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	--	--	--	--	--
Ethernet	1x100M Port	1x100M Port	1x100M Port	1 Gigabit Port	1x100M Port
PoE	--	4 Ports (IEEE802.3at/af) Max 36W	--	--	--
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	12 VDC, 2 A <10W (Without HDD)	53 VDC, 1.226 A <10W (Without HDD)	12 VDC, 2 A <10W (Without HDD)	DC12V/4A < 10W (Without HDD)	DC12V/4A < 10W (Without HDD)
Star Features	Quick Pick	Plug & Play, Quick Pick	Quick Pick	Quick Pick	Quick Pick
<b>Artificial Intelligence by Device</b>					
Perimeter Protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection	Up to 2-ch perimeter protection	Up to 1-ch perimeter protection	Up to 1-ch perimeter protection
Face Recognition	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 20 face database with up to 20,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 10 face databases with up to 5,000 face images in total	Up to 1-ch face recognition with normal camera; up to 4-ch face recognition with FD camera; 10 face databases with up to 5,000 face images in total
SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4 channels SMD Plus	Up to 4 channels SMD Plus
Image Search	Search by face images	Search by face images	Search by face images	Search by face images	Search by face images
<b>Artificial Intelligence by Camera</b>					
Perimeter Protection	Supported	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported	Supported
Metadata	--	--	--	--	--
SMD Plus	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	--	--
Heat Map	Supported	Supported	Supported	--	--
ANPR	Supported	Supported	Supported	--	--

# NETWORK VIDEO RECORDERS

## WizSense Series

### WizSense Series

Model	NVR2204-I2	NVR2216-16P-I2	NVR2208-8P-I2	NVR2204-P-I2
Appearance	  	  	  	  
Processor	Multi-core embedded processor	Multi-core embedded processor	Multi-core embedded processor	Multi-core embedded processor
Video Compression	H.265+/H.265/H.264+/H.264/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
IP Video Inputs	4 channels	16 channels	8 channels	4 channels
Max Input/Record	80Mbps/80Mbps	144Mbps/144Mbps	144Mbps/144Mbps	80Mbps/80Mbps
Max Decoding	6ch@1080P	6ch@1080P	6ch@1080P	6ch@1080P
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	2×10TB	2×10TB	2×10TB	2×10TB
RAID	--	--	--	--
eSATA/Mini SAS	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	--	4/2	--	--
Ethernet	1×100M Port	1 Gigabit Port	1 Gigabit Port	1×100M Port
PoE	--	16 Ports (IEEE802.3at/af) Max 130W	8 Ports (IEEE802.3at/af) Max 80W	4 Ports (IEEE802.3at/af) Max 60W
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	DC12V/4A ≤ 10W (without HDD)	AC100V ~ 240V, 47-63HZ, 3.5A <10W (Without HDD)	DC54V/2.22A ≤ 10W (without HDD)	DC53V/1.8A ≤ 10W (without HDD)
Star Features	Quick Pick	Plug & Play, Quick Pick	Plug & Play, Quick Pick	Plug & Play, Quick Pick
<b>Artificial Intelligence by Device</b>				
Perimeter Protection	Up to 1-ch perimeter protection	Up to 1-ch perimeter protection	Up to 1-ch perimeter protection	Up to 1-ch perimeter protection
Face Recognition	Up to 4-ch face recognition with FD camera; Up to 1-ch face recognition with normal camera; 10 face databases with up to 5,000 face images in total	Up to 4-ch face recognition with FD camera; Up to 1-ch face recognition with normal camera; 10 face databases with up to 5,000 face images in total	Up to 4-ch face recognition with FD camera; Up to 1-ch face recognition with normal camera; 10 face databases with up to 5,000 face images in total	Up to 4-ch face recognition with FD camera; Up to 1-ch face recognition with normal camera; 10 face databases with up to 5,000 face images in total
SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus
Image Search	Search by face images	Search by face images	Search by face images	Search by face images
<b>Artificial Intelligence by Camera</b>				
Perimeter Protection	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported
Metadata	--	--	--	--
SMD Plus	Supported	Supported	Supported	Supported
People Counting	--	--	--	--
Heat Map	--	--	--	--
ANPR	--	--	--	--

# NETWORK VIDEO RECORDERS

## WizSense Series

### WizSense Series

Model	NVR2116HS-I2	NVR2108HS-I2	NVR2104HS-I2	NVR2108HS-8P-I2	NVR2104HS-P-I2
Appearance	 <b>WizSense</b> Quick Pick	 <b>WizSense</b> Quick Pick	 <b>WizSense</b> Quick Pick	 <b>WizSense</b> Quick Pick	 <b>WizSense</b> Quick Pick
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/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG
IP Video Inputs	16 channels	8 channels	4 channels	8 channels	4 channels
Max Input/Record	144Mbps/144Mbps	80Mbps/80Mbps	80Mbps/80Mbps	144Mbps/144Mbps	80Mbps/80Mbps
Max Decoding	6ch@1080P	6ch@1080P	6ch@1080P	6ch@1080P	6ch@1080P
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	1x10TB	1x10TB	1x10TB	1x10TB	1x10TB
RAID	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	--	--	--	--	--
Ethernet	1 Gigabit Port	1x100M Port	1x100M Port	1 Gigabit Port	1x100M Port
PoE	--	--	--	8 Ports (IEEE802.3at/af) Max 72W	4 Ports (IEEE802.3at/af) Max 38W
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	DC12V/1.5A ≤ 10W (without HDD)	DC12V/1.5A ≤ 10W (without HDD)	DC12V/1.5A ≤ 10W (without HDD)	DC53V/1.8A ≤ 10W (without HDD)	DC53V/1.13A ≤ 10W (without HDD)
Star Features	Quick Pick	Quick Pick	Quick Pick	Plug & Play, Quick Pick	Plug & Play, Quick Pick
<b>Artificial Intelligence by Device</b>					
Perimeter Protection	Up to 1-ch perimeter protection	Up to 1-ch perimeter protection	Up to 1-ch perimeter protection	Up to 1-ch perimeter protection	Up to 1-ch perimeter protection
Face Recognition	Up to 4-ch face recognition with FD camera; Up to 1-ch face recognition with normal camera; 10 face databases with up to 5,000 face images in total	Up to 4-ch face recognition with FD camera; Up to 1-ch face recognition with normal camera; 10 face databases with up to 5,000 face images in total	Up to 4-ch face recognition with FD camera; Up to 1-ch face recognition with normal camera; 10 face databases with up to 5,000 face images in total	Up to 4-ch face recognition with FD camera; Up to 1-ch face recognition with normal camera; 10 face databases with up to 5,000 face images in total	Up to 4-ch face recognition with FD camera; Up to 1-ch face recognition with normal camera; 10 face databases with up to 5,000 face images in total
SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus
Image Search	Search by face images	Search by face images	Search by face images	Search by face images	Search by face images
<b>Artificial Intelligence by Camera</b>					
Perimeter Protection	Supported	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported	Supported
Metadata	--	--	--	--	--
SMD Plus	Supported	Supported	Supported	Supported	Supported
People Counting	--	--	--	--	--
Heat Map	--	--	--	--	--
ANPR	--	--	--	--	--

# NETWORK VIDEO RECORDERS

## WizSense Series

### WizSense Series

Model	NVR2116-I2	NVR2108-I2	NVR2104-I2	NVR2108-8P-I2	NVR2104-P-I2
Appearance	 <b>Wiz Sense</b> <b>Quick Pick</b>	 <b>Wiz Sense</b> <b>Quick Pick</b>	 <b>Wiz Sense</b> <b>Quick Pick</b>	 <b>Wiz Sense</b> <b>Quick Pick</b>	 <b>Wiz Sense</b> <b>Quick Pick</b>
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/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG
IP Video Inputs	16 channels	8 channels	4 channels	8 channels	4 channels
Max Input/Record	144Mbps/144Mbps	80Mbps/80Mbps	80Mbps/80Mbps	144Mbps/144Mbps	80Mbps/80Mbps
Max Decoding	6ch@1080P	6ch@1080P	6ch@1080P	6ch@1080P	6ch@1080P
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	1x10TB	1x10TB	1x10TB	1x10TB	1x10TB
RAID	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	--	--	--	--	--
Ethernet	1 Gigabit Port	1x100M Port	1x100M Port	1 Gigabit Port	1x100M Port
PoE	--	--	--	8 Ports (IEEE802.3at/af) Max72W	4 Ports (IEEE802.3at/af) Max 38W
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	DC12V/1.5A ≤ 10W (without HDD)	DC12V/1.5A ≤ 10W (without HDD)	DC12V/1.5A ≤ 10W (without HDD)	DC53V/1.8A <10W (Without HDD)	DC53V/1.13A <10W (Without HDD)
Star Features	Quick Pick	Quick Pick	Quick Pick	Plug & Play, Quick Pick	Plug & Play, Quick Pick
<b>Artificial Intelligence by Device</b>					
Perimeter Protection	Up to 1-ch perimeter protection	Up to 1-ch perimeter protection	Up to 1-ch perimeter protection	Up to 1-ch perimeter protection	Up to 1-ch perimeter protection
Face Recognition	Up to 4-ch face recognition with FD camera; Up to 1-ch face recognition with normal camera; 10 face databases with up to 5,000 face images in total	Up to 4 channels face recognition with FD camera; Up to 1-ch face recognition with normal camera; 10 face databases with up to 5,000 face images in total	Up to 4-ch face recognition with FD camera; Up to 1-ch face recognition with normal camera; 10 face databases with up to 5,000 face images in total	Up to 4-ch face recognition with FD camera; Up to 1-ch face recognition with normal camera; 10 face databases with up to 5,000 face images in total	Up to 4-ch face recognition with FD camera; Up to 1-ch face recognition with normal camera; 10 face databases with up to 5,000 face images in total
SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus	Up to 4-ch SMD Plus
Image Search	Search by face images	Search by face images	Search by face images	Search by face images	Search by face images
<b>Artificial Intelligence by Camera</b>					
Perimeter Protection	Supported	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported	Supported
Metadata	--	--	--	--	--
SMD Plus	Supported	Supported	Supported	Supported	Supported
People Counting	--	--	--	--	--
Heat Map	--	--	--	--	--
ANPR	--	--	--	--	--



## Lite Series NVR

The Lite Series NVR is designed with high cost/performance ratio as well as Dahua's excellent quality. It supports innovative H.265+ encoding and energy-saving techniques to help save costs. The NVR can serve as edge storage, central storage or backup storage with an intuitive shortcut operation menu for remote management and control.



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

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



### UI 4.0

Adopts new UI 4.0 style which is more consistent with users' habits. Functional modules are divided properly to make them clearer and easier to understand.



### Easy Setup

Plug & Play installation, and smart app for carefree surveillance.



### More Features











Offers AI by camera features including Perimeter Protection, People Counting and Heat Map.



# NETWORK VIDEO RECORDERS







## Lite Series

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

Model	NVR4232-4KS2/L	NVR4216-4KS2/L	NVR4208-4KS2/L	NVR4204-4KS2/L	NVR4232-16P-4KS2/L
Appearance	 	 	 	 	 
Processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade 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	32 channels	16 channels	8 channels	4 channels	32 channels
Max Input/Record	160Mbps/128Mbps	160Mbps/160Mbps	160Mbps/160Mbps	160Mbps/160Mbps	160Mbps/128Mbps
Max Decoding	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	2x16TB	2x16TB	2x16TB	2x16TB	2x16TB
RAID	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	4/2	4/2	4/2	4/2	4/2
Ethernet	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port
PoE	--	--	--	--	16 Ports (IEEE802.3at/af) Max 130W
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	DC12V/4A <5.6W (Without HDD)	DC12V/4A <10W (Without HDD)	DC12V/4A <10W (Without HDD)	DC12V/4A <10W (Without HDD)	AC100V~240V <8W (Without HDD)
Star Features	--	--	--	--	Plug & Play
<b>Artificial Intelligence by Camera</b>					
Perimeter Protection	Supported	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported	Supported
Metadata	--	--	--	--	--
SMD Plus	Supported	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported
Heat Map	--	--	--	--	--
ANPR	--	--	--	--	--

# NETWORK VIDEO RECORDERS











## Lite Series

	2HDD Lite 4K & H.265 NVR			1HDD Compact 1U Lite 4K & H.265 NVR	
Model	NVR4216-16P-4KS2/L	NVR4208-8P-4KS2/L	NVR4204-P-4KS2/L	NVR4116HS-4KS2/L	NVR4108HS-4KS2/L
Appearance	 	 	 	 	 
Processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade 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	16 channels	8 channels	4 channels	16 channels	8 channels
Max Input/Record	160Mbps/160Mbps	160Mbps/160Mbps	160Mbps/160Mbps	80Mbps/80Mbps	80Mbps/80Mbps
Max Decoding	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	2x16TB	2x16TB	2x16TB	1x16TB	1x16TB
RAID	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	4/2	4/2	4/2	--	--
Ethernet	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1 Gigabit Port	1x100M Port
PoE	16 Ports (IEEE802.3at/af) Max 130W	8 Ports (IEEE802.3at/af) Max 117W	4 Ports (IEEE802.3at/af) Max 36W	--	--
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	AC100V~240V <10W (Without HDD)	AC100V~240V <10W (Without HDD)	DC48V/1.5A <10W (Without HDD)	DC12V/2A <10W (Without HDD)	DC12V/2A <10W (Without HDD)
Star Features	Plug & Play	Plug & Play	Plug & Play	--	--
<b>Artificial Intelligence by Camera</b>					
Perimeter Protection	Supported	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported	Supported
Metadata	--	--	--	--	--
SMD Plus	Supported	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported
Heat Map	--	--	--	--	--
ANPR	--	--	--	--	--

# NETWORK VIDEO RECORDERS

## Lite Series

### 1HDD Compact 1U Lite 4K & H.265 NVR















Model	NVR4104HS-4KS2/L	NVR4116HS-8P-4KS2/L	NVR4108HS-8P-4KS2/L	NVR4108HS-P-4KS2/L	NVR4104HS-P-4KS2/L
Appearance	 	 	 	 	 
Processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade 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	4 channels	16 channel	8 channels	8 channels	4 channels
Max Input/Record	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps
Max Decoding	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	1x16TB	1x16TB	1x16TB	1x16TB	1x16TB
RAID	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	--	--	--	--	--
Ethernet	1x100M Port	1 Gigabit Port	1x100M Port	1x100M Port	1x100M Port
PoE	--	8 Ports (IEEE802.3at/af) Max 72W	8 Ports (IEEE802.3at/af) Max 72W	4 Ports (IEEE802.3at/af) Max 36W	4 Ports (IEEE802.3at/af) Max 36W
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	DC12V/2A <10W (Without HDD)	DC48V/2A <10W (Without HDD)	DC48V/2A <10W (Without HDD)	DC48V/1.25A <10W (Without HDD)	DC48V/1.25A <10W (Without HDD)
Star Features	--	Plug & Play	Plug & Play	Plug & Play	Plug & Play
<b>Artificial Intelligence by Camera</b>					
Perimeter Protection	Supported	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported	Supported
Metadata	--	--	--	--	--
SMD Plus	Supported	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported
Heat Map	--	--	--	--	--
ANPR	--	--	--	--	--

NETWORK VIDEO RECORDER

# NETWORK VIDEO RECORDERS

## Lite Series











### 1HDD Smart 1U Lite 4K & H.265 NVR

Model	NVR4116-4KS2/L	NVR4108-4KS2/L	NVR4104-4KS2/L	NVR4116-8P-4KS2/L	NVR4108-8P-4KS2/L	NVR4108-P-4KS2/L	NVR4104-P-4KS2/L
Appearance	 	 	 	 	 	 	 
Processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade 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	H.265+/H.265/H.264+/H.264	H.265+/H.265/H.264+/H.264
IP Video Inputs	16 channels	8 channels	4 channels	16 channels	8 channels	8 channels	4 channels
Max Input/Record	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps
Max Decoding	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P	2ch@4K/8ch@1080P
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	1x16TB	1x16TB	1x16TB	1x16TB	1x16TB	1x16TB	1x16TB
RAID	--	--	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	--	--	--	--	--	--	--
Ethernet	1 Gigabit Port	1x100M Port	1x100M Port	1 Gigabit Port	1x100M Port	1x100M Port	1x100M Port
PoE	--	--	--	8 Ports (IEEE802.3at/af) Max 72W	8 Ports (IEEE802.3at/af) Max 72W	4 Ports (IEEE802.3at/af) Max 36W	4 Ports (IEEE802.3at/af) Max 36W
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	DC12V/2A <10W (Without HDD)	DC12V/2A <10W (Without HDD)	DC12V/2A <10W (Without HDD)	DC48V/2A <10W (Without HDD)	DC48V/2A <10W (Without HDD)	DC48V/1.25A <10W (Without HDD)	DC48V/1.25A <10W (Without HDD)
Star Features	--	--	--	Plug & Play	Plug & Play	Plug & Play	Plug & Play
<b>Artificial Intelligence by Camera</b>							
Perimeter Protection	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Face Recognition	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Metadata	--	--	--	--	--	--	--
SMD Plus	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Face Detection	Supported	Supported	Supported	Supported	Supported	Supported	Supported
People Counting	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Heat Map	--	--	--	--	--	--	--
ANPR	--	--	--	--	--	--	--

# NETWORK VIDEO RECORDERS

## Lite Series











### 1HDD Lite H.265 NVR

Model	NVR2116HS-S3	NVR2108HS-S3	NVR2104HS-S3	NVR2116-S3	NVR2108-S3
Appearance	 	 	 	 	 
Processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade 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	16 channels	8 channels	4 channels	16 channels	8 channels
Max Input/Record	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps
Max Decoding	6ch@1080P(30fps)	6ch@1080P(30fps)	6ch@1080P(30fps)	6ch@1080P(30fps)	6ch@1080P(30fps)
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	1x16TB	1x16TB	1x16TB	1x16TB	1x16TB
RAID	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	--	--	--	--	--
Ethernet	1x100M Port	1x100M Port	1x100M Port	1x100M Port	1x100M Port
PoE	--	--	--	--	--
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	DC12V, 1.5A <10 W (without HDD)	DC12V, 1.5A <10 W (without HDD)	DC12V, 1.5A <10 W (without HDD)	DC12V, 1.5A <10 W (without HDD)	DC12V, 1.5A <10 W (without HDD)
Star Features	Easy4ip	Easy4ip	Easy4ip	Easy4ip	Easy4ip
<b>Artificial Intelligence by Camera</b>					
Perimeter Protection	Supported	Supported	Supported	Supported	Supported
Face Recognition	--	--	--	--	--
Metadata	--	--	--	--	--
SMD Plus	Supported	Supported	Supported	Supported	Supported
Face Detection	--	--	--	--	--
People Counting	--	--	--	--	--
Heat Map	--	--	--	--	--
ANPR	--	--	--	--	--

# NETWORK VIDEO RECORDERS







## Lite Series

### 1HDD Lite H.265 NVR

Model	NVR2104-S3	NVR2108HS-8P-S3	NVR2104HS-P-S3	NVR2108-8P-S3	NVR2104-P-S3
Appearance	 	 	 	 	 
Processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade 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	4 channels	8 channels	4 channels	8 channels	4 channels
Max Input/Record	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps
Max Decoding	6ch@1080P (30fps)	6ch@1080P (30fps)	6ch@1080P (30fps)	6ch@1080P (30fps)	6ch@1080P (30fps)
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	1x16TB	1x16TB	1x16TB	1x16TB	1x16TB
RAID	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	--	--	--	--	--
Ethernet	1x100M Port	1x100M Port	1x100M Port	1x100M Port	1x100M Port
PoE	--	8 Ports(Max 72W)	4 Ports(Max 36W)	8 Ports(Max 72W)	4 Ports(Max 36W)
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	DC12V, 1.5A <10 W (without HDD)	DC48V/53V, 2A/1.8A <10W (Without HDD)	DC48V/53V, 2A/1.8A <10W (Without HDD)	DC48V/53V, 2A/1.8A <10W (Without HDD)	DC48V/53V, 1.25A/1.13A <10W (Without HDD)
Star Features	Easy4ip	Plug & Play, Easy4ip	Plug & Play, Easy4ip	Plug & Play, Easy4ip	Plug & Play, Easy4ip
<b>Artificial Intelligence by Camera</b>					
Perimeter Protection	Supported	Supported	Supported	Supported	Supported
Face Recognition	--	--	--	--	--
Metadata	--	--	--	--	--
SMD Plus	Supported	Supported	Supported	Supported	Supported
Face Detection	--	--	--	--	--
People Counting	--	--	--	--	--
Heat Map	--	--	--	--	--
ANPR	--	--	--	--	--

# NETWORK VIDEO RECORDERS

## Lite Series

	1HDD Lite 4K & H.265 NVR				1HDD Compact 1U Lite H.265 NVR	
Model	NVR1108HS-S3/H	NVR1104HS-S3/H	NVR1108HS-8P-S3/H	NVR1104HS-P-S3/H	NVR1108HS-W-S2-CE	NVR1104HS-W-S2-CE
Appearance	 <span>H.265+</span>	 <span>H.265+</span>	 <span>H.265+</span>	 <span>H.265+</span>	 <span>H.265+</span>	 <span>H.265+</span>
Processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade embedded processor	Industrial-grade 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/MJPEG	H.265+/H.265/H.264+/H.264/MJPEG
IP Video Inputs	8 channels	4 channels	8 channels	4 channels	8 channels	4 channels
Max Input/Record	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	80Mbps/80Mbps	Wired: 40Mbps/40Mbps Wireless: 16Mbps/16Mbps	Wired: 40Mbps/40Mbps Wireless: 16Mbps/16Mbps
Max Decoding	4ch@1080P (25fps)	4ch@1080P (25fps)	4ch@1080P (25fps)	4ch@1080P (25fps)	4ch@1080P (25fps)	4ch@1080P (25fps)
Display	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA	1HDMI, 1VGA
Max HDD	1x8TB	1x8TB	1x8TB	1x8TB	1x8TB	1x8TB
RAID	--	--	--	--	--	--
eSATA/Mini SAS	--	--	--	--	--	--
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	--	--	--	--	--	--
Ethernet	1x100M Port	1x100M Port	1 Gigabit Port	1x100M Port	1x100M Port	1x100M Port
PoE	--	--	8 Ports (IEEE802.3at/af) Max 72W	4 Ports (IEEE802.3at/af) Max 36W	--	--
USB	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0	2 USB2.0
Power	DC12V/1.5A <10W (Without HDD)	DC12V/1.5A <10W (Without HDD)	DC48V/2A <10W (Without HDD)	DC48V/1.25A <10W (Without HDD)	DC12V, 1.5A <10 W (without HDD)	DC12V, 1.5A <10 W (without HDD)
Star Features	--	--	Plug & Play	Plug & Play	WiFi, Dual Antenna	WiFi, Dual Antenna
<b>Artificial Intelligence by Camera</b>						
Perimeter Protection	--	--	--	--	--	--
Face Recognition	--	--	--	--	--	--
Metadata	--	--	--	--	--	--
SMD Plus	--	--	--	--	--	--
Face Detection	--	--	--	--	--	--
People Counting	--	--	--	--	--	--
Heat Map	--	--	--	--	--	--
ANPR	--	--	--	--	--	--

# NETWORK THERMAL CAMERAS





# Security

Dahua adopts clearer and more cost-effective sensors and AI technology to provide all-weather monitoring, as well as timely and accurate alarms in order to protect the safety of SMB users' property.



## Perimeter Protection

With the simple background of a thermal image and built-in AI algorithm, it supports classification of human and vehicle that significantly improves alarm accuracy.



## Advance Heat Detection

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



## Excellent Environmental Adaptability

The Dahua thermal camera can penetrate through fog and haze, allowing it to capture clear images in any light conditions, whether it's day or night.







## Smoking Dection

The dual-channel detection algorithm can effectively identify smoking behavior in the image.

# NETWORK THERMAL CAMERAS

## Security

	Model	DHI-TPC-DF1241	DHI-TPC-BF1241	DHI-TPC-BF1241-WiFi	DHI-TPC-SD2241
Appearance					
Thermal	Image Sensor	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA
	Effective Pixels	256 (H) × 192 (V)	256 (H) × 192 (V)	256 (H) × 192 (V)	256 (H) × 192 (V)
	Sensitivity	≤40mK	≤40mK	≤40mK	≤40mK
	Lens	2mm/3.5mm/7mm	3.5mm/7mm/10mm	3.5mm/7mm/10mm	3.5mm/7mm/10mm
	FOV-H	H: 87.8°/50.6°/24°	H: 50.6°/24°/17.3°	H: 50.6°/24°/17.3°	H: 50.6°/24°/17.3°
Visible	Image Sensor	1/2.7" 4M CMOS	1/2.7" 4M CMOS	1/2.7" 4M CMOS	1/2.7" 4M CMOS
	Lens	2mm/4mm/8mm	4mm/8mm/12mm	4mm/8mm/12mm	4mm/8mm/12mm
	FOV-H	H: 94°/71.2°/33.4°	H: 71.2°/33.4°/22°	H: 71.2°/33.4°/22°	H: 71.2°/33.4°/22°
	IR Distance	30m	30m	30m	35m/50m
General	Video Compression	H.265/H.264M/H.264H/H.264B/MJPEG	H.265/H.264M/H.264H/H.264B/MJPEG	H.265/H.264M/H.264H/H.264B/MJPEG	H.265/H.264M/H.264H/H.264B/MJPEG
	Pan/Tilt Range	--	--	--	300 presets, Pan: 0°~360° endless, Tilt: -15°~90°
	Intelligent Video	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Smoking Detection, Call Detection	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Smoking Detection, Call Detection	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Smoking Detection, Call Detection	IVS, Human/Vehicle Classification, Heat Detection & Alarm, Cold/Hot Spot Trace, Smoking Detection, Call Detection
	Compatibility	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	IP66
	Working Temperature	-30°C ~+50°C	-30°C ~+50°C	-30°C ~+50°C	-30°C ~+60°C
	Power	DC12V/PoE, <13W	DC12V/PoE, <14W	DC12V/PoE, <14W	DC12V/PoE+, <24W

NETWORK THERMAL CAMERAS

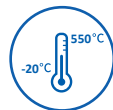
# Thermography

Designed for industrial temperature measurement, it is equipped with highly efficient sensors and industry-leading high-precision temperature measurement algorithm. It supports flexible temperature measurement rule setting to help users monitor the status of the equipment in real time.



## Flexible Rules

Supports point, line, and area temperature measurement rule setting and displays the highest, lowest or average temperature. It also supports up to 12 rules simultaneously in one scene.



## High Accuracy

Wide temperature measurement range from -20°C to 550°C, with high accuracy up to  $\pm 2^\circ\text{C}$  or  $\pm 2\%$  (whichever is greater).





## Real-time Alarm

Online, long distance, and non-contact 24/7 temperature measurement, with millisecond response speed.

# NETWORK THERMAL CAMERAS

## Thermography

	Model	DHI-TPC-DF1241-T	DHI-TPC-BF1241-T	DHI-TPC-SD2241-T
	Appearance			
Thermal	Image Sensor	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA	Vanadium Oxide Uncooled FPA
	Effective Pixels	256 (H) × 192 (V)	256 (H) × 192 (V)	256 (H) × 192 (V)
	Sensitivity	≤40mK	≤40mK	≤40mK
	Lens	2mm/3.5mm/7mm	3.5mm/7mm/10mm	3.5mm/7mm/10mm
	FOV-H	H: 87.8°/50.6°/24°	H: 50.6°/24°/17.3°	H: 50.6°/24°/17.3°
	Temperature Range & Accuracy	Low temperature mode:-20°C ~ +150°C High temperature mode: 0°C ~ +550°C Max (±2°C, ±2%) Operating temperature:-30°C ~ +50°C	Low temperature mode:-20°C ~ +150°C High temperature mode: 0°C ~ +550°C Max (±2°C, ±2%) Operating temperature:-30°C ~ +50°C	Low temperature mode:-20°C ~ +150°C High temperature mode: 0°C ~ +550°C Max (±2°C, ±2%) Operating temperature:-30°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	
Visible	Image Sensor	1/2.7" 4M CMOS	1/2.7" 4M CMOS	1/2.7" 4M CMOS
	Lens	2mm/4mm/8mm	4mm/8mm/12mm	4mm/8mm/12mm
	FOV-H	H: 94°/71.2°/33.4°	H: 71.2°/33.4°/22°	H: 71.2°/33.4°/22°
	IR Distance	30m	30m	35m/50m
General	Video Compression	H.265/H.264M/H.264H/H.264B/MJPEG	H.265/H.264M/H.264H/H.264B/MJPEG	H.265/H.264M/H.264H/H.264B/MJPEG
	Pan/Tilt Range	--	--	300 presets, Pan: 0° ~ 360° endless, Tilt:-15° ~ 90°
	Intelligent Video	Cold/Hot Spot Trace, Smoking Detection, Call Detection	Cold/Hot Spot Trace, Smoking Detection, Call Detection	Cold/Hot Spot Trace, Smoking Detection, Call Detection
	Compatibility	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI	ONVIF (Profile S&G); CGI
	Ingress Protection	IP67	IP67	IP66
	Working Temperature	-30°C ~ +50°C	-30°C ~ +50°C	-30°C ~ +60°C
	Power	DC12V/PoE, <13W	DC12V/PoE, <14W	DC12V/PoE+, <24W

# TRANSMISSION





# Transmission

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

## Dahua **PoE2.0** Switch



### Higher Power & Protection

- 802.3bt 90W PoE Out
- High Lightning Protection
- Wide Working Temperature



### Longer Transmission

- 250M Long Distance PoE
- 8-wire PoE Transmission









### Smarter Management

- PoE Watchdog
- Intelligent PoE
- Non-blocking Video Transmission

## PoE Switch







### Desktop PoE Switch

Model	PFS3005-4ET-36	PFS3005-4ET-60	PFS3006-4ET-36	PFS3006-4ET-60	PFS3009-8ET-65	PFS3009-8ET-96
Appearance		<b>PoE2.0</b> 		<b>PoE2.0</b> 		<b>PoE2.0</b> 
Fast/Gigabit Ethernet	4FE PoE+1FE	4FE PoE+1FE	4FE PoE+2FE	4FE PoE+2FE	8FE PoE + 1FE	8FE PoE+1FE
SFP Slots	--	--	--	--	--	--
PoE Standard	PoE (802.3af), PoE+ (802.3at)	PoE (802.3af), PoE+ (802.3at), Hi-PoE	PoE (802.3af), PoE+ (802.3at)	PoE (802.3af), PoE+ (802.3at), Hi-PoE	PoE (802.3af), PoE+ (802.3at)	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++(802.3bt)
PoE Budget	36W	60W	36W	60W	65W	96W
PoE Watchdog	--	Supported	Supported	Supported	--	Supported
Long Distance PoE Transmission	--	Yes (250 meters)	Yes (250 meters)	Yes (250 meters)	--	Yes (250 meters)
Intelligent PoE Management	--	Supported	--	Supported	--	Supported
Switching Capacity	1Gbps	1.8Gbps	1.2Gbps	1.8Gbps	1.8Gbps	1.8Gbps
Packet Forwarding Rate	744Kpps	744Kpps	890Kpps	890Kpps	1.34Mpps	1.34Mpps
Packet Buffer Memory	448Kb	448Kb	768kb	768kb	1Mb	768kb
MAC Table Size	1K	1K	2K	2K	2K	2K
VLAN	--	--	--	--	--	--
Link Aggregation	--	--	--	--	--	--
Flow Control	Supported	Supported	Supported	Supported	Supported	Supported
Spanning Tree	--	--	--	--	--	--
Management	--	--	--	--	--	--
Lightning Protection	Common Mode 2KV Differential Mode 1KV	Common Mode 2KV Differential Mode 1KV	Common Mode 6KV Differential Mode 4KV	Common Mode 2KV Differential Mode 1KV	Common Mode 2KV Differential Mode 1KV	Common Mode 2KV Differential Mode 0.5KV
Working Temperature	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)
Dimensions (WxDxH)	170mm×100mm×35mm (6.7"×3.9"×1.4")	130mm×85mm×26mm (5.1"×3.3"×1.0")	194mm×108mm×35mm (7.6"×4.3"×1.4")	130mm×85mm×26mm (5.1"×3.3"×1.0")	205mm×115mm×35mm (8.1"×4.5"×1.4")	190mm ×100mm×30mm (7.5"×3.9"×1.2")

# TRANSMISSION

## PoE Switch





### Desktop PoE Switch

Model	PFS3009-8ET1GT-96	PFS3010-8ET-65	PFS3010-8ET-96	PFS3110-8ET1GT1GF-96	PFS3210-8ET2GF-96	PFS3218-16ET-135
Appearance	<b>PoE 2.0</b> 		<b>PoE 2.0</b> 	<b>PoE 2.0</b> 	<b>PoE 2.0</b> 	
Fast/Gigabit Ethernet	8FE PoE + 1GE	8FE PoE + 2FE	8FE PoE + 2FE	8FE PoE + 1GE	8FE PoE + 2GE (Combo)	16FE PoE + 2GE (Combo)
SFP Slots	--	--	--	1GE SFP	2GE SFP (Combo)	2GE SFP (Combo)
PoE Standard	PoE (802.3af), PoE+ (802.3at),Hi-PoE, PoE++(802.3bt)	PoE (802.3af), PoE+ (802.3at)	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 Budget	96W	65W	96W	96W	96W	135W
PoE Watchdog	Supported	Supported	Supported	Supported	Supported	Supported
Long Distance PoE Transmission	Yes (250 meters)	Yes (250 meters)	Yes (250 meters)	Yes (250 meters)	Yes (250 meters)	Yes (250 meters)
Intelligent PoE Management	Supported	--	Supported	Supported	Supported	--
Switching Capacity	3.6Gbps	2Gbps	5.6Gbps	5.6Gbps	5.6Gbps	7.2Gbps
Packet Forwarding Rate	2.68Mpps	1.49Mpps	4.17Mpps	4.17Mpps	4.17Mpps	5.36Mpps
Packet Buffer Memory	1Mb	768Kb	4Mb	4Mb	4Mb	2.75Mb
MAC Table Size	2K	2K	8K	8K	8K	4K
VLAN	--	--	--	--	--	--
Link Aggregation	--	--	--	--	--	--
Flow Control	Supported	Supported	Supported	Supported	Supported	Supported
Spanning Tree	--	--	--	--	--	--
Management	--	--	--	--	--	--
Lightning Protection	Common Mode 4KV Differential Mode 2KV	Common Mode 6KV Differential Mode 4KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV
Working Temperature	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)
Dimensions (WxDxH)	190mm×100mm×30mm (7.5"×3.9"×1.2")	242.5mm×122.9mm×35.0 mm (9.6"×4.8"×1.4")	190mm×100mm×30mm (7.5"×3.9"×1.2")	240mm×105mm×28mm (9.5"×4.1"×1.1")	240mm×105mm×28mm (9.5"×4.1"×1.1")	440mm×300mm×44mm (17.3"×11.8"×1.7")



## PoE Switch







### Desktop PoE Switch

Model	S3218-16ET-190/240	S3226-24ET-240/360	PFS4218-16ET-190/240	PFS4226-24ET-240/360
Appearance	 <b>PoE2.0</b>	 <b>PoE2.0</b>	 <b>PoE2.0</b>	 <b>PoE2.0</b>
Fast/Gigabit Ethernet	16FE PoE	24FE PoE+2GE (Combo)	16FE PoE+2GE (Combo)	24FE PoE+2GE (Combo)
SFP Slots	2GE SFP	2GE SFP (Combo)	2GE SFP (Combo)	2GE SFP (Combo)
PoE Standard	PoE (802.3af), PoE+ (802.3at), Hi-PoE	PoE (802.3af), PoE+ (802.3at), Hi-PoE	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++(802.3bt)	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++(802.3bt)
PoE Budget	190W/240W	240W/360W	190W/240W	240W/360W
PoE Watchdog	Supported	Supported	Supported	Supported
Long Distance PoE Transmission	Yes (250 meters)	Yes (250 meters)	Yes (250 meters)	Yes (250 meters)
Intelligent PoE Management	Supported	Supported	Supported	Supported
Switching Capacity	8.8Gbps	8.8Gbps	8.8Gbps	8.8Gbps
Packet Forwarding Rate	5.36Mpps	6.55Mpps	5.36Mpps	6.55Mpps
Packet Buffer Memory	4Mb	4Mb	2.75Mb	2.75Mb
MAC Table Size	8K	8K	4K	4K
VLAN	--	--	Supported	Supported
Link Aggregation	--	--	Supported	Supported
Flow Control	Supported	Supported	Supported	Supported
Spanning Tree	--	--	Supported	Supported
Management	--	--	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 4KV Differential Mode 2KV
Working Temperature	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)
Dimensions (WxDxH)	440mm×300mm×44mm (17.3"×11.8"×1.7")	440mm×300mm×44mm (17.3"×11.8"×1.7")	440mm×300mm×44mm (17.3"×11.8"×1.7")	440mm×300mm×44mm (17.3"×11.8"×1.7")

# TRANSMISSION







## PoE Switch

### All-Gigabit PoE Switch

Model	PFS3005-4GT-36	PFS3006-4GT-60	PFS3008-8GT-60	PFS3008-8GT-96	PFS3010-8GT-65	PFS3010-8GT-96
Appearance		<b>PoE2.0</b> 	<b>PoE2.0</b> 	<b>PoE2.0</b> 		<b>PoE2.0</b> 
Fast/Gigabit Ethernet	4GE PoE+1GE	4GE PoE+2GE	4GE PoE+4GE	8GE PoE	8GE PoE+2GE	8GE PoE+2GE
SFP Slots	--	--	--	--	--	--
PoE Standard	PoE (802.3af), PoE+ (802.3at)	PoE (802.3af), PoE+ (802.3at), Hi-PoE	PoE (802.3af), PoE+ (802.3at), Hi-PoE	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++ (802.3bt)	PoE(802.3af), PoE+(802.3at)	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++ (802.3bt)
PoE Budget	36W	65W	60W	96W	65W	96W
PoE Watchdog	--	Supported	Supported	Supported	--	Supported
Long Distance PoE Transmission	--	Yes (250 meters)	Yes (250 meters)	Yes (250 meters)	--	Yes (250 meters)
Intelligent PoE Management	--	Supported	Supported	Supported	--	Supported
Switching Capacity	10Gbps	14Gbps	20Gbps	20Gbps	20Gbps	20Gbps
Packet Forwarding Rate	7.44Mpps	8.93Mbps	11.9Mpps	11.9Mpps	14.88Mpps	14.88Mpps
Packet Buffer Memory	1Mb	1Mb	1.5Mb	1.5Mb	2Mb	1.5Mb
MAC Table Size	2K	2K	8K	8K	2K	4K
VLAN	--	--	--	--	--	--
Link Aggregation	--	--	--	--	--	--
Flow Control	--	Supported	Supported	Supported	Supported	Supported
Spanning Tree	--	--	--	--	--	--
Management	--	--	--	--	--	--
Lightning Protection	Common Mode 2KV Differential Mode 0.5KV	Common Mode 2KV Differential Mode 1KV	Common Mode 2KV Differential Mode 0.5KV	Common Mode 2KV Differential Mode 0.5KV	Common Mode 2KV Differential Mode 0.5KV	Common Mode 6KV Differential Mode 4KV
Working Temperature	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)
Dimensions (W×D×H)	170mm×100mm×35mm (6.7"×3.9"×1.4")	130mm×85mm×26mm (5.1"×3.3"×1.0")	190mm×100mm×30mm (7.5"×3.9"×1.2")	190mm×100mm×30mm (7.5"×3.9"×1.2")	243 mm×118 mm×35 mm (9.57"×4.65"×1.36")	190mm×100mm×30mm (7.5"×3.9"×1.2")

## PoE Switch







### All-Gigabit PoE Switch

Model	PFS3110-8GT-65	PFS3016-16GT-190	PFS3210-8GT2GF-96	PFS3218-16GT-135	PFS3220-16GT-190/240	PFS3228-24GT-240/360
Appearance						
Fast/Gigabit Ethernet	8GE PoE+1GE	16GE PoE	8GE PoE	16GE PoE	16GE PoE+2GE	24GE PoE+2GE
SFP Slots	1GE SFP	--	2GE SFP	2GE SFP	2 GE SFP	2GE SFP
PoE Standard	PoE (802.3af), PoE+ (802.3at)	PoE (802.3af), PoE+ (802.3at), Hi-PoE	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++ (802.3bt)	PoE (802.3af), PoE+ (802.3at)	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++ (802.3bt)	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++ (802.3bt)
PoE Budget	65W	190W	96W	135W	190W/240W	240W/360W
PoE Watchdog	--	--	Supported	--	--	--
Long Distance PoE Transmission	--	--	Yes (250 meters)	Yes (250 meters)	--	--
Intelligent PoE Management	Supported	Supported	Supported	Supported	Supported	Supported
Switching Capacity	20Gbps	32Gbps	20Gbps	36Gbps	52Gbps	56Gbps
Packet Forwarding Rate	14.88Mpps	23.81Mpps	14.88Mpps	26.784Mpps	29.76Mpps	41.66Mpps
Packet Buffer Memory	1.5Mb	4Mb	1.5Mb	4.1Mb	4Mb	4Mb
MAC Table Size	2K	8K	4K	8K	8K	8K
VLAN	--	--	--	--	--	--
Link Aggregation	--	--	--	--	--	--
Flow Control	Supported	Supported	Supported	Supported	Supported	Supported
Spanning Tree	--	--	--	--	--	--
Management	--	--	--	--	--	--
Lightning Protection	Common mode: 2KV Differential mode: 0.5KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV	Common Mode 2KV Differential Mode 0.5KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV
Working Temperature	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)	-10°C ~ +55°C (-14°F~+131°F)	-10 °C~+55 °C (14 °F~+131 °F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)
Dimensions (WxDxH)	243mm×118mm×35mm (9.57"×4.65"×1.36")	285mm×104.6mm×28mm (11.22"×4.12"×1.10")	240mm×105mm×28mm (9.4"×4.1"×1.1")	285.0mm×189.5mm×43.7mm (11.22"×7.46"×1.72")	440mm×300mm×44mm (17.3"×11.8"×1.7")	440mm×300mm×44mm (17.3"×11.8"×1.7")

# TRANSMISSION









## PoE Switch

### Cloud Managed PoE Switch

Model	S4100-4ET2ET-60-C	S4100-8ET2GT-96-C	S4100-4GT2GT-60-C	S4100-8GT1GT-96-C	S4101-16ET2GF-240-C	S4101-24ET2GF-360-C
Appearance	 <b>PoE2.0</b>	 <b>PoE2.0</b>	 <b>PoE2.0</b>	 <b>PoE2.0</b>	 <b>PoE2.0</b>	 <b>PoE2.0</b>
Fast/Gigabit Ethernet	4FE PoE+2FE	8FE PoE+2GE	4GE PoE+2GE	8GE PoE+1GE	16FE PoE+2GE (Combo)	24FE PoE+2GE (Combo)
SFP Slots	--	--	--	--	2GE SFP (Combo)	2GE SFP (Combo)
PoE Standard	PoE (802.3af), PoE+ (802.3at), Hi-PoE	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++ (802.3bt)	PoE (802.3af), PoE+ (802.3at), Hi-PoE	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	60W	96W	60W	96W	240W	360W
PoE Watchdog	Supported	Supported	Supported	Supported	Supported	Supported
Long Distance PoE Transmission	Yes (250 meters)	Yes (250 meters)	Yes (250 meters)	Yes (250 meters)	Yes (250 meters)	Yes (250 meters)
Intelligent PoE Management	Supported	Supported	Supported	Supported	Supported	Supported
Switching Capacity	1.6Gbps	7.2Gbps	12Gbps	20Gbps	7.2Gbps	12.8Gbps
Packet Forwarding Rate	890Kpps	4.17Mpps	8.93Mpps	13.39Mpps	5.36Mpps	6.54Mpps
Packet Buffer Memory	768Kb	4Mb	1Mb	1.5Mb	4Mb	4Mb
MAC Table Size	2K	16K	2K	4K	16K	16K
VLAN	Supported	Supported	Supported	Supported	Supported	Supported
Link Aggregation	Supported*	Supported*	Supported*	Supported*	Supported*	Supported*
Flow Control	Supported	Supported	Supported	Supported	Supported	Supported
Spanning Tree	Supported*	Supported*	Supported*	Supported*	Supported*	Supported*
Management	DoLynk Care	DoLynk Care	DoLynk Care	DoLynk Care	DoLynk Care	DoLynk Care
Lightning Protection	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV
Working Temperature	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)	-10°C~+55°C (14°F~+131°F)
Dimensions (WxDxH)	130mm×85mm×26mm (5.1"×3.3"×1.0")	190mm×100mm×30mm (7.5"×3.9"×1.2")	130mm×85mm×26mm (5.1"×3.3"×1.0")	190mm×100mm×30mm (7.5"×3.9"×1.2")	440mm×300mm×44mm (17.3"×11.8"×1.7")	440mm×300mm×44mm (17.3"×11.8"×1.7")




## PoE Switch

### Hardened PoE Switch

Model	PFS3103-1GT1ET-60	PFS3106-4ET-60	PFS3206-4P-96/120	PFS4307-4ET-96	PFS3110-8ET-96	PFS3111-8ET-96-F	PFS3409-4GT-96	PFS3211-8GT-120
Appearance	 <b>PoE2.0</b>	 <b>PoE2.0</b>			 <b>PoE2.0</b>		 <b>PoE2.0</b>	 <b>PoE2.0</b>
Fast/Gigabit Ethernet	1FE PoE+1GE PoE	4FE PoE+1GE	3FE PoE+1GE PoE	4FE PoE	8FE PoE+1GE	8FE PoE+2GE	4GE PoE+1GE	8GE PoE+1GE
SFP Slots	1GE SFP	1GE SFP	2GE SFP	3GE SFP	1GE SFP	1GE SFP	4GE SFP	2GE SFP
PoE Standard	PoE (802.3af), PoE+ (802.3at), Hi-PoE	PoE (802.3af), PoE+ (802.3at), Hi-PoE	PoE (802.3af), PoE+ (802.3at), Hi-PoE	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++ (802.3bt)	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++ (802.3bt)	PoE (802.3af), PoE+ (802.3at), Hi-PoE	PoE (802.3af), PoE+ (802.3at), Hi-PoE	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++ (802.3bt)
PoE Budget	60W	60W	96W/120W	96W	96W	96W	96W	120W
PoE Watchdog	Supported	Supported	--	Supported	Supported	--	Supported	Supported
Long Distance PoE Transmission	Yes (250 meters)	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	7.6Gbps	6.8Gbps	6.8Gbps	6.8 Gbps	7.6Gbps	13.6Gbps	33Gbps	33Gbps
Packet Forwarding Rate	4.17Mpps	3.57Mpps	4.91Mpps	5.06 Mpps	4.17Mpps	5.65Mpps	13.39Mpps	16.37Mpps
Packet Buffer Memory	2Mb	1Mb	1Mb	1Mb	1Mb	2Mb	1.75Mb	1.75Mb
MAC Table Size	8K	8K	8K	8K	8K	8K	4K	4K
VLAN	--	--	--	Supported	--	--	--	--
Link Aggregation	--	--	--	Supported	--	--	--	--
Flow Control	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
Spanning Tree	--	--	--	Supported	--	--	--	--
Management	--	--	--	Web,SNMP	--	--	--	--
Lightning Protection	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV"	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV
Working Temperature	-30°C~+65°C (-22°F~+149°F)	-30°C~+65°C (-22°F~+149°F)	-30°C~+65°C (-22°F~+149°F)	-30°C ~ +65°C (-22°F~+149°F)	-30°C~+65°C (-22°F~+149°F)	-30°C ~ +65°C (-22°F~+149°F)	-30°C~+65°C (-22°F~+149°F)	-30°C~+65°C (-22°F~+149°F)
Dimensions (WxDxH)	105mmx75mmx30mm (4.1"x3.0"x1.2")	150mmx100mmx30mm (5.9"x3.9"x1.2")	150mmx100mmx30mm (5.9"x3.9"x1.2")	150mmx100mmx42mm (5.9"x3.9"x1.7")	150mmx100mmx42mm (5.9"x3.9"x1.7")	158mmx130mmx25mm (8.2"x5.1"x0.98")	150mmx110mmx42mm (5.9"x4.3"x1.7")	150mmx110mmx42mm (5.9"x4.3"x1.7")

# TRANSMISSION

## Access Switch

	Plastic Switch (Unmanaged Non-PoE Switch)				Metal Switch (Unmanaged Non-PoE Switch)			
Model	PFS3005-5ET-L	PFS3008-8ET-L	PFS3005-5GT-L	PFS3008-8GT-L	PFS3005-5ET	PFS3008-8ET	PFS3005-5GT	PFS3008-8GT
Appearance								
Fast/Gigabit Ethernet	5FE	8FE	5GE	8GE	5FE	8FE	5GE	8GE
SFP Slots	--	--	--	--	--	--	--	--
Switching Capacity	1Gbps	1.6 Gbps	10Gbps	16Gbps	1Gbps	1.6 Gbps	10Gbps	16Gbps
Packet Forwarding Rate	0.744Mpps	1.19 Mpps	7.44Mpps	11.9Mpps	0.744Mpps	1.19 Mpps	7.44Mpps	11.9Mpps
Management	--	--	--	--	--	--	--	--
Dimensions (WxDxH)	77mm×46mm×21mm (3.03"×1.81"×0.83")	125mm×65mm×22mm (4.92"×2.56"×0.87")	77mm×46mm×21mm (3.03"×1.81"×0.83")	125mm×65mm×22mm (4.92"×2.56"×0.87")	100mm×65mm×22.6mm (3.94"×2.56"×0.88")	150mm×70mm×22.6mm (5.91"× 2.76"×0.89")	100mm×64mm×25mm (3.9"×2.5"×1.0")	150mm×70mm×22.6mm (5.91"× 2.76"×0.89")


## Access Switch

### Metal Switch (Unmanaged Non-PoE Switch)

Model	S3016-16ET	S3024-24ET	S3016-16GT	S3024-24GT	PFS3016-16GT	PFS3016-16GT-M	PFS3024-24GT
Appearance							
Fast/Gigabit Ethernet	16FE	24FE	16GE	24GE	16GE	16GE	24GE
SFP Slots	--	--	--	--	--	--	--
Switching Capacity	3.2Gbps	4.8Gbps	32Gbps	48Gbps	32Gbps	32Gbps	48Gbps
Packet Forwarding Rate	2.38Mpps	3.57Mpps	23.8Mpps	35.7Mpps	23.8Mpps	23.8Mpps	35.7Mpps
Management	--	--	--	--	--	--	--
Dimensions (WxDxH)	440mm×155mm×43.65mm (17.32"× 6.1"×1.72")	440mm×155mm×43.65mm (17.32"× 6.1"×1.72")	440mm×155mm×43.65mm (17.32"× 6.1"×1.72")	440mm×155mm×43.65mm (17.32"× 6.1"×1.72")	280mm×173mm×44mm (11.0"×6.81"×1.7")	235mm×103mm×27mm (9.25"×4.06"×1.06")	280mm×173mm×44mm (11.0"×6.81"×1.7")

## Access Switch

### Hardened Metal Switch (Unmanaged Non-PoE Switch)

Model	DH-PFS3102-1T	PFS3106-4T	PFS3110-8T	PFS3409-4GT	PFS3211-8GT
Appearance					
Fast/Gigabit Ethernet	1GE	4FE+1GE	8FE+1GE	5GE	9GE
SFP Slots	1GE SFP	1GE SFP	1GE SFP	4GE SFP	2GE SFP
Switching Capacity	6.8G	6.8Gbps	13.6Gbps	33Gbps	33Gbps
Packet Forwarding Rate	2.98Mpps	3.57Mpps	4.17Mpps	16.37Mpps	16.37Mpps
MAC Table Size	8K	8K	8K	4K	4K
VLAN	--	--	--	--	--
Link Aggregation	--	--	--	--	--
Flow Control	Supported	Supported	Supported	Supported	Supported
Spanning Tree	--	--	--	--	--
Management	--	--	--	--	--
Static Routing	--	--	--	--	--
Dynamic Routing	--	--	--	--	--
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)	-30°C~+65°C (-22°F~+149°F)	-30°C~+65°C (-22°F~+149°F)
Dimensions (W×D×H)	150mm×100mm×30mm (5.9"×3.9"×1.2")	150mm×100mm×30mm (5.9"×3.9"×1.2")	150mm×100mm×42mm (5.9"×3.9"×1.7")	150mm×110mm×42mm (5.9"×4.3"×1.7")	150mm×110mm×42mm (5.9"×4.3"×1.7")

# TRANSMISSION

## V-Radio Wireless Bridge Series

Model	CPE				Base Station	
	PFWB5-30n	PFWB5-10n	PFWB5-30ac	PFWB5-10ac	PFWB5-90n	PFWB5-90ac
Appearance						
Fast/Gigabit Ethernet	1FE	1FE	1GE	1GE	1FE	1GE
Wireless Standard	802.11 a/n	802.11 a/n	802.11 a/n/ac	802.11 a/n/ac	802.11 a/n	802.11 a/n/ac
Working Frequency	5.150- 5.850 GHz (FCC 5.150- 5.250 and 5.725- 5.850 GHz)	5.150- 5.850 GHz (FCC 5.150- 5.250 and 5.725- 5.850 GHz)	5.150- 5.850 GHz (FCC 5.150- 5.250 and 5.725- 5.850 GHz)	5.150- 5.850 GHz (FCC 5.150- 5.250 and 5.725- 5.850 GHz)	5.150- 5.850 GHz (FCC 5.150- 5.250 and 5.725- 5.850 GHz)	5.150- 5.850 GHz (FCC 5.150- 5.250 and 5.725- 5.850 GHz)
Wireless Speed	300Mbps	300Mbps	867Mbps	867Mbps	300Mbps	867Mbps
Transmission Distance	0-3km	0-5km	0-3km	0-5km	0-5km	0-5km
Antenna Gain	15dBi	20dBi	15dBi	20dBi	18dBi	18dBi
Polarization	Dual Linear: Horizontal 30°, Vertical 30°	Dual Linear: Horizontal 10°, Vertical 10°	Dual Linear: Horizontal 30°, Vertical 30°	Dual Linear: Horizontal 10°, Vertical 10°	Dual Linear: Horizontal 90°, Vertical 90°	Dual Linear: Horizontal 90°, Vertical 90°
Tx Power Max	29dBm	29dBm	30dBm	30dBm	29dBm	30dBm
Proprietary Protocol	TDMA	TDMA	TDMA	TDMA	TDMA	TDMA
Network Security	WPA/WPA2 Personal, WPA/WPA2 Enterprise, WACL, User Isolation	WPA/WPA2 Personal, WPA/WPA2 Enterprise, WACL, User Isolation	WPA/WPA2 Personal, WPA/WPA2 Enterprise, WACL, User Isolation	WPA/WPA2 Personal, WPA/WPA2 Enterprise, WACL, User Isolation	WPA/WPA2 Personal, WPA/WPA2 Enterprise, WACL, User Isolation	WPA/WPA2 Personal, WPA/WPA2 Enterprise, WACL, User Isolation
Management	Web/WNMS Platform	Web/WNMS Platform	Web/WNMS Platform	Web/WNMS Platform	Web/WNMS Platform	Web/WNMS Platform
Lightning Protection	Common Mode 3KV Differential Mode 1KV	Common Mode 3KV Differential Mode 1KV	Common Mode 3KV Differential Mode 1KV	Common Mode 3KV Differential Mode 1KV	Common Mode 3KV Differential Mode 1KV	Common Mode 3KV Differential Mode 1KV
Ingress Protection	IP66	IP66	IP66	IP66	IP66	IP66
Working Temperature	-30°C~+ 70°C (-22°F~+158°F)	-30°C~+ 70°C (-22°F~+158°F)	-30°C~+ 70°C (-22°F~+158°F)	-30°C~+ 70°C (-22°F~+158°F)	-30°C~+ 70°C (-22°F~+158°F)	-30°C~+ 70°C (-22°F~+158°F)
Dimension	128 mm×97mm×40mm (5.0"×3.8"×1.6")	185mm×185mm×81mm (7.3"×7.3"×3.2")	128 mm×97mm×40mm (5.0"×3.8"×1.6")	185mm×185mm×81mm (7.3"×7.3"×3.2")	383mm×100mm×98mm (15.1"×3.9"×3.9")	383mm×100mm×98mm (15.1"×3.9"×3.9")
Power	12- 24 VDC passive PoE	12- 24 VDC passive PoE	12- 24 VDC passive PoE	12- 24 VDC passive PoE	12- 24 VDC passive PoE	12- 24 VDC passive PoE



## Accessories

### PoE Midspan

Model	TAM1GT1GT-30	TAM01GT01GT-75	PFT1200
Appearance			
Fast/Gigabit Ethernet	2GE	2GE	2GE
PoE Standard	PoE (802.3af), PoE+ (802.3at)	PoE (802.3af), PoE+ (802.3at), Hi-PoE	PoE (802.3af), PoE+ (802.3at), Hi-PoE
PoE Budget	30W	75W	60W
Working Temperature	-10°C~55°C (14°F~131°F)	-30°C~+65°C (-22°F~+149°F)	-30°C~+60°C (-22°F~+140°F)
Dimensions(WxDxH)	132.3mm×60mm×33mm (5.2"×2.4"×1.3")	210mm×75mm×38.5mm (8.3"×2.9"×1.5")	150mm×70mm×39mm (5.9"×2.8"×1.5")

## Accessories

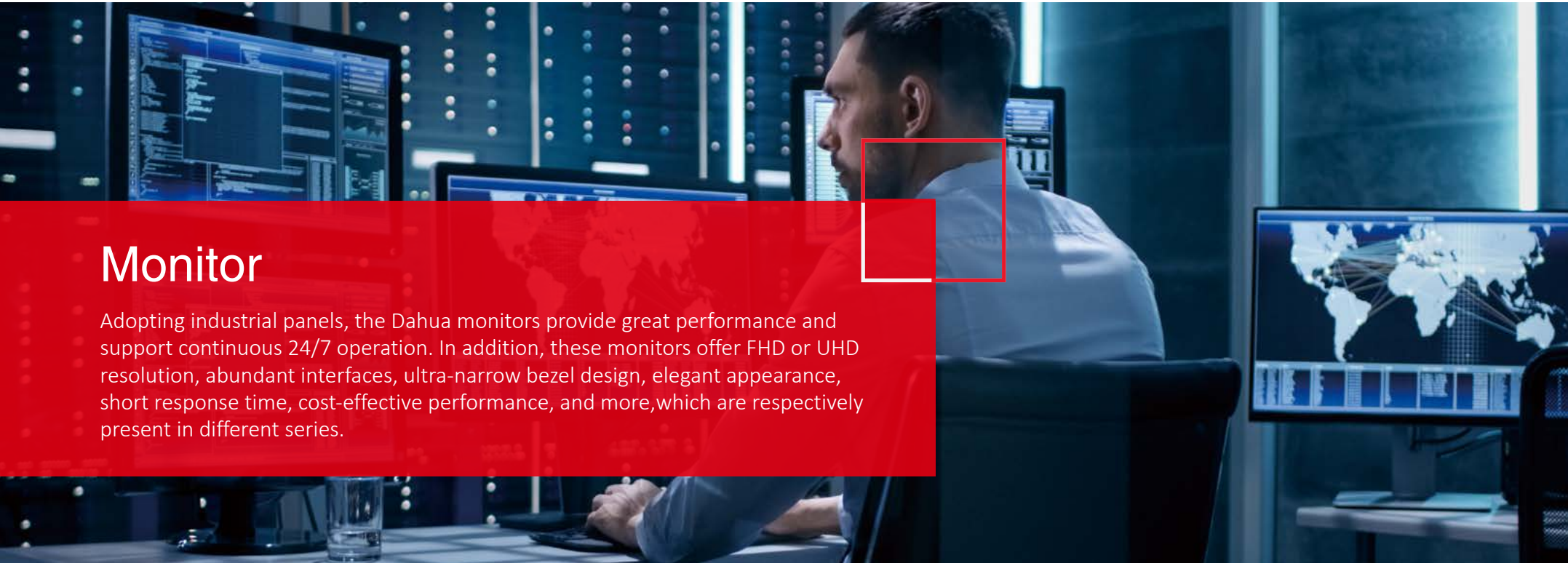
### PoE Extender

### Ethernet Media Converter

Model	PFT1300	PFT1500	OTE103
Appearance			
Fast/Gigabit Ethernet	1 FE PoE in 2 FE PoE out	1 GE PoE in 4 FE PoE out	1FE
SFP Slots	--	--	1FE FC
PoE Standard	PoE (802.3af), PoE+ (802.3at)	PoE (802.3af), PoE+ (802.3at), Hi-PoE, PoE++ (802.3bt)	--
Transmission Distance	300M (2 units)	600M (2 units)	--
Long Distance PoE Transmission	--	Yes (250 meters)	--
PoE Watchdog	--	Supported	--
Lightning Protection	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV	Common Mode 4KV Differential Mode 2KV
Working Temperature	-30°C~+65°C (-22°F~+149°F)	-30°C~+65°C (-22°F~+149°F)	-40°C~+75°C (-40°F~+167°F)
Dimensions(WxDxH)	79mm×52mm ×23mm (3.1"×2.0"×0.9")	150mm×100mm×30 mm (5.9"×3.9"×1.2")	105mm ×96mm ×30mm (4.1"×3.8"×1.2")

# DISPLAY & CONTROL





# Monitor

Adopting industrial panels, the Dahua monitors provide great performance and support continuous 24/7 operation. In addition, these monitors offer FHD or UHD resolution, abundant interfaces, ultra-narrow bezel design, elegant appearance, short response time, cost-effective performance, and more, which are respectively present in different series.



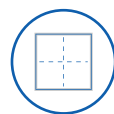
## Ultra Series

- Up to 4K Resolution
- Rich Interface Types



## Light Series

- Lightweight
- Cost-effective



## Commercial Series

- Blue Light Filter
- Narrow Bezel








## Gaming Series

- High Refresh Rate
- Gaming Mode

# DISPLAY & CONTROL

## Monitors

Model	LM22-H200	LM32-F200	LM43-F200	LM43-S400	LM55-S400
Appearance					
Screen Size	21.45" (16:9)	31.5" (16:9)	43" (16:9)	43" (16:9)	55" (16:9)
Resolution	1920×1080	1920×1080	1920×1080	3840×2160	3840×2160
Brightness	250cd/m <sup>2</sup>	240 cd/m <sup>2</sup>	330 cd/m <sup>2</sup>	450cd/m <sup>2</sup>	450cd/m <sup>2</sup>
Contrast Ratio	3000:1	1400:1	1200:1	1000:1	1000:1
Viewing Angle	H 178°, V 178°	H 178°, V 178°	H 178°, V 178°	H 178°, V 178°	H 178°, V 178°
Response Time	6.5ms	8ms	8ms	8ms	6ms
Display Color	8bit	8bit	8bit	10bit	10bit
Input	1 VGA, 1 HDMI, Audio In	VGA×1, HDMI×1, USB×1	VGA×1, HDMI×1, USB×1	1 DP, 2 HDMI, 1 VGA, 1 USB, 1 Audio, 1 RJ45(RS232)	1 DP, 2 HDMI, 1 VGA, 1 USB, 1 Audio, 1 RJ45(RS232)
Output	2 Speakers	2 Speakers	2 Speakers	1 RJ45(RS232), 2 Speakers	1 RJ45(RS232), 2 Speakers
Control	Physical Button	Physical Button, Infrared Remote	Physical Button, Infrared Remote	RS232, Infrared Remote	RS232, Infrared Remote
Working Temperature	0°C~+40°C (+32°F~+104°F)	0°C~+40°C (+32°F~+104°F)	0°C~+40°C (+32°F~+104°F)	0°C~+40°C (+32°F~+104°F)	0°C~+40°C (+32°F~+104°F)
Working Humidity	10~85%	20~85%	20~85%	10~85%	10~85%
Power	DC 12V, 2A	AC100~240V(+/-10%), 55W	AC100~240V(+/-10%), 75W	AC110~240V, 70W	AC110~240V, 120W
Bezel Width	2.6mm (U/R/L) 16.7mm (B)	13.9mm (U/R/L), 20.5mm (B)	12.8mm (U/R/L), 22mm (B)	8mm (U/L/R/B)	8mm (U/L/R/B)
VESA	75×75mm	75×75mm	400×200mm	400×400mm	400×400mm
Dimensions	491.7×38×285.1mm (19.4"×1.5"×11.2")	731.4×432.6×67.5mm (28.8"×17"×2.7")	969.1×566.8×82.4mm (38.2"×22.3"×3.2")	960.7×550.7×65.0mm (37.8"×21.7"×2.6")	1227.2×699.6×65.0mm (48.3"×27.5"×2.6")
Net Weight	2.1kg (4.63lb)	3.9kg (8.6lb)	7.4kg (16.3lb)	16.6kg (36.6lb)	25.2kg (55.6lb)

## LCD Video Wall

Provides excellent visual experience with a variety of options for panel size, bezel width, resolution and brightness.

- Continuous 24/7 operation
- 3.5mm narrow bezel
- Anti-glare panel, vivid image quality
- Abundant interfaces with daisy chain function
- Fast response time and no image ghosting
- Fast stacking installation



### LCD Video Wall

Model	LS550UCM-EF	LS490UCM-EF	LS460UCM-EF
Appearance			
Screen Size	55" (16:9)	49" (16:9)	46" (16:9)
Panel Type	ADS	ADS	ADS
Resolution	1920×1080	1920×1080	1920×1080
Backlight	Direct LED	Direct LED	Direct LED
Bezel Width	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	40dpi	46dpi	48dpi
Brightness	500 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>	500 cd/m <sup>2</sup>
Contrast Ratio	1200:1	1200:1	1200:1
Viewing Angle	H 178°, V 178°	H 178°, V 178°	H 178°, V 178°
Response Time (G-to-G)	8ms	8ms	8ms
Color Depth	8bit	8bit	8bit
Color Temperature	10,000K	10,000K	10,000K
MTBF	50,000h	50,000h	50,000h
Input	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 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
Working Temperature	0°C~+40°C (+32°F~+104°F)	0°C~+40°C (+32°F~+104°F)	0°C~+40°C (+32°F~+104°F)
Working Humidity	10~80%	10~80%	10~80%
Power & Consumption	AC100V, AC240V, 175W	AC100V, AC240V, 135W	AC100V, AC240V, 130W
Dimensions	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-mount (Optional)	Floor-standing, Wall-mount (Optional)	Floor-standing, Wall-mount (Optional)

# DISPLAY & CONTROL

## Indoor & Outdoor Fixed LED

- High-end indoor/outdoor fixed LED display
- Modular cabinet design
- Front/rear service cabinet design
- Supports attachment via magnet or screws
- Ultra thin & no back cover cabinet



### Indoor & Outdoor Fixed LED




#### Indoor Fixed Series

Model	DHI-PHGIA4.81-SH	DHI-PHGIA3.91-SH	DHI-PHGIA2.97-SH	DHI-PHGIA2.61-SH
Appearance				
Pixel Pitch	4.81mm	3.91mm	2.97mm	2.61mm
Module Size (W×H)	250×250mm	250×250mm	250×250mm	250×250mm
Pixel Type	1R1G1B	1R1G1B	1R1G1B	1R1G1B
LED Type	SMD2121	SMD2121	SMD2121	SMD1515
Cabinet Size (W×H×D)	500×1000×61.3mm	500×1000×61.3mm	500×1000×61.3mm	500×1000×61.3mm
Cabinet Resolution (W×H)	104×208	128×256	168×336	192×384
Cabinet Material	Aluminum	Aluminum	Aluminum	Aluminum
Cabinet Weight	9kg	9kg	9kg	9kg
Pixel Density	43264 dots/m <sup>2</sup>	65536 dots/m <sup>2</sup>	112896 dots/m <sup>2</sup>	147456 dots/m <sup>2</sup>
Brightness	900 cd/m <sup>2</sup>	900 cd/m <sup>2</sup>	1000 cd/m <sup>2</sup>	1000 cd/m <sup>2</sup>
Color Processing Depth	14 bits	14 bits	14 bits	14 bits
Contrast	5000:1	5000:1	5000:1	5000:1
Refresh Rate	3840 Hz	3840 Hz	3840 Hz	3840 Hz
Viewing Angle	160°/140°	160°/140°	160°/140°	160°/140°
Ingress Protection	IP20/IP20	IP20/IP20	IP20/IP20	IP20/IP20
Input Voltage	AC110~220V 50/60 Hz	AC110~220V 50/60 Hz	AC110~220V 50/60 Hz	AC110~220V 50/60 Hz
Work Temperature	-20°C~+45°C	-20°C~+45°C	-20°C~+45°C	-20°C~+45°C
Work Humidity	10%RH~90%RH	10%RH~90%RH	10%RH~90%RH	10%RH~90%RH
Max Input Power	420W/m <sup>2</sup>	420W/m <sup>2</sup>	410W/m <sup>2</sup>	450W/m <sup>2</sup>
Avg Input Power	130W/m <sup>2</sup>	130W/m <sup>2</sup>	165W/m <sup>2</sup>	160W/m <sup>2</sup>
Communication Connection	CAT5 Cable ( ≤100m ), multi-mode fiber ( ≤300m ), single mode fiber ( ≤16km)	CAT5 Cable ( ≤100m ), multi-mode fiber ( ≤300m ), single mode fiber ( ≤16km)	CAT5 Cable ( ≤100m ), multi-mode fiber ( ≤300m ), single mode fiber ( ≤16km)	CAT5 Cable ( ≤100m ), multi-mode fiber ( ≤300m ), single mode fiber ( ≤16km)
Maintenance Mode	Front/Rear Maintenance	Front/Rear Maintenance	Front/Rear Maintenance	Front/Rear Maintenance

# DISPLAY & CONTROL

## Indoor & Outdoor Fixed LED

### Outdoor Fixed Series

Model	DHI-PHGOA10-PH	DHI-PHGOA8-PH	DHI-PHGOA6-PH	DHI-PHGOA5-PH
Appearance				
Pixel Pitch	10mm	8mm	6.67mm	5.71mm
Module Size (W×H)	480×320mm	480×320mm	480×320mm	480×320mm
Pixel Type	1R1G1B	1R1G1B	1R1G1B	1R1G1B
LED Type	SMD3535	SMD3535	SMD2727	SMD2727
Cabinet Size (W×H×D)	960×960×75mm	960×960×75mm	960×960×75mm	960×960×75mm
Cabinet Resolution (W×H)	96×96	120×120	144×144	168×168
Cabinet Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Cabinet Weight	28 kg	28 kg	28 kg	28 kg
Pixel Density	10000 dots/m <sup>2</sup>	15625 dots/m <sup>2</sup>	27777 dots/m <sup>2</sup>	30625 dots/m <sup>2</sup>
Brightness	5500 cd/m <sup>2</sup>	5500 cd/m <sup>2</sup>	5500 cd/m <sup>2</sup>	5500 cd/m <sup>2</sup>
Color Processing Depth	14 bits	14 bits	14 bits	14 bits
Contrast	5000:1	5000:1	5000:1	5000:1
Refresh Rate	3840 Hz	3840 Hz	3840 Hz	3840 Hz
Viewing Angle	160°/90°	160°/90°	160°/80°	160°/80°
Ingress Protection	Front IP68/Rear IP66	Front IP68/Rear IP66	Front IP68/Rear IP66	Front IP68/Rear IP66
Input Voltage	AC110~220V 50/60 Hz	AC110~220V 50/60 Hz	AC110~220V 50/60 Hz	AC110~220V 50/60 Hz
Work Temperature	-40°C~+60°C	-40°C~+60°C	-40°C~+60°C	-40°C~+60°C
Work Humidity	10%RH~90%RH	10%RH~90%RH	10%RH~90%RH	10%RH~90%RH
Max Input Power	550 W/m <sup>2</sup>	550 W/m <sup>2</sup>	550 W/m <sup>2</sup>	550 W/m <sup>2</sup>
Avg Input Power	150 W/m <sup>2</sup>	150 W/m <sup>2</sup>	150 W/m <sup>2</sup>	150 W/m <sup>2</sup>
Communication Connection	CAT5 Cable ( L≤100m ), multi-mode fiber ( L≤300m ), single mode fiber (L≤15km)	CAT5 Cable ( L≤100m ), multi-mode fiber ( L≤300m ), single mode fiber (L≤15km)	CAT5 Cable ( L≤100m ), multi-mode fiber ( L≤300m ), single mode fiber (L≤15km)	CAT5 Cable ( L≤100m ), multi-mode fiber ( L≤300m ), single mode fiber (L≤15km)
Maintenance Mode	Front & Rear Maintenance	Front & Rear Maintenance	Front & Rear Maintenance	Front & Rear Maintenance

# DISPLAY & CONTROL





## Decoder

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

- Local signal collection
- Flexible image display
- Powerful collection and decoding capability
- Excellent compatibility with devices from top brands



## Decoder

Model	NVD0905DH-4I-4K	NVD0605DH-4I-4K	NVD0405DU-2I-8K	NVD0105DH-4K
Appearance				
Screen Quantity	9 Screens	6 Screens	4 Screens	1 Screen
Splicing Control Modes	Zoom/Merge/Roam/Overlay	Zoom/Merge/Roam/Overlay	Zoom/Merge/Roam/Overlay	Zoom/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	1/4/9/16/25/36/64
Max Decoding	3CH@32MP(25fps)/ 9CH@12MP(15fps)/ 12CH@8MP/48CH@1080P/ 108CH@720P/192CH@D1	2CH@32MP(25fps)/ 6CH@12MP(15fps)/ 8CH@8MP/32CH@1080P/ 72CH@720P/128CH@D1	2CH@32MP(25fps)/ 7CH@12MP(25fps)/ 10CH@8MP/36CH@1080P/ 72CH@720P/144CH@D1	1ch@32MP(25fps)/ 3ch@12MP(15fps)/ 4ch@8MP/16ch@1080P/ 36ch@720P/64ch@D1
Local Video Input	2CH HDMI, 2CH DVI-I	2CH HDMI, 2CH DVI-I	2CH HDMI	--
Network Video Input	IPC/DVR/NVR, etc.	IPC/DVR/NVR, etc.	IPC/DVR/NVR, etc.	IPC/DVR/NVR, etc.
Video Output	HDMI(DVI with convertor)	HDMI(DVI with convertor)	HDMI(DVI with convertor)	HDMI/VGA
Audio Out	HDMI (embedded)	HDMI (embedded)	1 3.5mm jack	HDMI (embedded)
Alarm In/Out	4/4 (30VDC 1A, 125VAC 0.5A, Relay output)	4/4 (30VDC 1A, 125VAC 0.5A, Relay output)	8/8 (30VDC 1A, 125VAC 0.5A, Relay output)	4/4 (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 RCA (reserved)
Processor	Embedded processor	Embedded processor	Embedded processor	Embedded processor
Case	1.5U 19"	1.5U 19"	1U 19"	1U 19"
Ethernet	2 RJ-45 port (10/100/1000M)	2 RJ-45 port (10/100/1000M)	1 RJ-45 10M/100M/1000M	1 RJ-45 port (10/100/1000M)
USB	1 USB2.0, 1 USB3.0	1 USB2.0, 1 USB3.0	2 USB 3.0	2 USB2.0
Power	AC100~240V, 50 Hz~60Hz	AC100~240V, 50 Hz~60Hz	DC12V/5A	DC12V/3.3A
Control Modes	WEB/Video Platform/ Network Keyboard/Pad	WEB/Video Platform/ Network Keyboard/Pad	WEB/Video Platform/ Network Keyboard/Pad	WEB/Local GUI/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; Supports displaying of intelligent regular line




## Encoding Box

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

# DISPLAY & CONTROL


## Android Media Player Box

HDMI signal output connects various display devices to publish advertising content.

- Industrial design
- Small and portable
- Matching monitor, LCD video wall, LED screen for advertising



### Android Media Player Box

Model	DS04-AI400
Appearance	
CPU	4 core 64-bit processor
RAM	2GB
ROM	16GB
System	≥ Android 8.0
Input Port	RJ45×1, USB2.0×1, USB3.0×1, SD×1
Output Port	HDMI2.0×1, Audio output×1
Wi-Fi	Supported
Decoding Capacity	1CH@4K (60fps) or 4ch@1080P
MPS	Supported
Power	DC 12V/2A
Max Consumption	4W
Working Temperature/Humidity	-10°C~+55°C/10%~90%
Storage Temperature/Humidity	-20°C~+60°C/5%~95%


## Keyboard

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

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



### Keyboard

Model	NBK1000-E	NKB5200 (-F)
Appearance		
Control Mode(s)	Direct mode, Network mode, USB mode	Direct mode, Network mode
Control Interface	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
Dome Protocol	DH-SD1/PELCO-D/PELCO-P, etc.	DH-SD1/PELCO-D/PELCO-P
Max. Users	64 (including "admin")	32 ( All can manage up to 5000 channels via network)
Screen	Monochrome LCD screen (128x64)	10.1" TFT LCD touch screen (1280*800)
Local Split Display Mode	--	2001/4/9
Video Output	--	1CH HDMI/VGA
Local Decoding	--	1CH@4K/4CH@1080P
Intercom	--	1 Pair (reserved)
Joystick	3-axis (zoom, focus, iris)	4-axis (zoom, focus, iris)
Main Processor	Industrial embedded microprocessor	Six-core processor
Operating System	Embedded LINUX	Android
USB	1 USB2.0	1 USB3.0, 2 USB2.0
Power	DC12V/2A	DC12V, 4A; PoE
Highlights	Multi-user access control; Controls DVR, NVR, EVS, Decoder, Matrix; Works 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

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



## Camera Mount

Provides a series of solutions for the installation of cameras.



## Power Supply

Provides different power supply type for devices with different specifications.



## Cabling




Provides different cable products to meet the transmission requirements of different equipment.



## Audio

Collects live sound signals for the camera.

# ACCESSORIES

HFWxxT/T1, TPC-BFxx Series				
				
Model		PFA130-E		PFA130-E+PFA152-E
Mount		Junction box		Pole mount

HFWxxS, HFWxxE-A/S/AS, HFWxxDT, HFWxxDS Series				
				
Model		PFA134		PFA134+PFA152-E
Mount		Junction box		Pole mount

HFWxxM, HFWxxM-AS Serie					
					
Model		PFB121W	PFB121W+PFA121+PFA152-E	PFB110W	PFB110C-E
Mount		Wall mount	Pole mount	Wall/Ceiling/Plane mount	Ceiling mount (Extensible)

HFWxxDG Series					
					
Model		PFB121W	PFB121W+PFA156	PFA162	PFA162+PFA150
Mount		Wall mount	Pole mount (Vertical)	Plane mount	Pole mount (Horizontal)

# ACCESSORIES

HFWxxDGP Series					
					
Model	PFB121W	PFB121W+PFA150	PFA162	PFA162+PFA150	
Mount	Wall mount	Pole mount (Vertical)	Plane mount	Pole mount (Horizontal)	

HFWxxDK1P Series					
					
Model	PFB605W	PFA605W+PFA150	PFA162	PFA162+PFA150	PFB603C
Mount	Wall mount	Pole mount (Vertical)	Plane mount	Pole mount (Horizontal)	Ceiling mount

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




HDBWxxR-Z Series				
				
Model	PFA137	PFB203W	PFB203W+PFA152-E	PFA106+PFB220C
Mount	Junction box	Wall mount	Pole mount	Ceiling mount

# ACCESSORIES

HDBWxxR1 Series				
				
Model	PFA197R	PFB206W	PFB206W+PFA156	PFA106+PFB220C
Mount	Junction box	Wall mount	Pole mount	Ceiling mount

HDBWxxE-S/AS-S2, HDWxxDT Series				
				
Model	PFA136	PFB203W	PFB203W+PFA152-E	PFA109+PFB220C
Mount	Junction box	Wall mount	Pole mount	Ceiling mount

HDWxxT-S/ZS/AS/ZAS, HDWxxH, HDWxxTM, TPC-DF1xx Series				
				
Model	PFA137	PFB203W	PFB203W+PFA152-E	PFA106+PFB220C
Mount	Junction box	Wall mount	Pole mount	Ceiling mount

HDBWxxF-AS-S2 Series				
				
Model	PFA139	PFB204W	PFB204W+PFA152-E	
Mount	Junction box	Wall mount	Pole mount	



# ACCESSORIES

HDWxxDT Series					HDWxxEM-S2 Series				
									
<b>Model</b>	PFA13G	PFB205W-E	PFB205W-E+PFA152-E	PFA109+PFB220C	<b>Model</b>	PFA130-E	PFB204W	PFB203W+PFA152-E	PFA106+PFB220C
<b>Mount</b>	Junction box	Wall mount	Pole mount	Ceiling mount	<b>Mount</b>	Junction box	Wall mount	Pole mount	Ceiling mount

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

SD6C Series								
								
<b>Model</b>	PFB305W	PFB305W+PFA120	PFA111+PFB300C	PFA150	PFA151	PFA111+PFB303S	PFA111+PFB301C	PFB301S-E
<b>Mount</b>	Wall mount	Junction box	Ceiling mount	Pole mount	Corner mount	Parapet mount	Ceiling mount	Plane mount

SD50 Series								
								
<b>Model</b>	PFA111+PFB303W	PFB310W	PFA111+PFB303W+PFA120	PFA111+PFB300C	PFA150	PFA151	PFA140	PFA111+PFB303S
<b>Mount</b>	Wall mount		Junction box	Ceiling mount	Pole mount	Corner mount	Power box	Parapet mount

# ACCESSORIES

SD29xx Series				
				
<b>Model</b>	PFA103+PFB302S	PFA103+PFB302S+PFA150	PFA103+PFB302S+PFA151	PFA103+PFB300C
<b>Mount</b>	Wall mount	Pole mount	Corner mount	Ceiling mount

SD22xx Series				
				
<b>Model</b>	PFA137	PFB203W	PFB203W+PFA152-E	PFB200C
<b>Mount</b>	Junction box	Wall mount	Pole mount	In-ceiling mount

SD22xx-W Series				SD1A Series			
							
<b>Model</b>	PFA137	PFB203W	PFB203W+PFA152-E	<b>Model</b>	PFA13F	PFA107+PFB305W	PFA107+PFB220C
<b>Mount</b>	Junction box	Wall mount	Pole mount	<b>Mount</b>	Junction box	Wall mount	Ceiling mount

TPC-SD2xx Series								
								
<b>Model</b>	PFA111+PFB303W	PFB305W	PFA111+PFB303W+PFA120	PFA111+PFB300C	PFA150	PFA151	PFA140	PFA111+PFB303S
<b>Mount</b>	Wall mount	Wall mount	Junction box	Ceiling mount	Pole mount	Corner mount	Power box	Parapet mount

## Housings

Provide a multi-functional shield for box cameras.

- Aesthetic design
- All weather protection, suitable for different scenes
- IP66/67, IK10 ingress protection
- Supports 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

## Lens

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)	1 m (3.28 ft)	2.5m (8.2ft)	1.5 m (4.92 ft) (W)-2.5 m (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 testers
- Small tools: DMM/Wfif 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 dev
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

## Video Extension

Allows video signal extension and branching.

- Real-time transmission of HDMI signals
- Real-time transmission of VGA signals
- No need to install drivers
- Excellent anti-thunder, anti-static and anti-interference capabilities



### Video Extension

Model	PFM700-E	PFM701-4K	PFM710
Appearance			
Transmission Signal	1-channel HDMI	1-channel HDMI ~ 2-channel HDMI	1-channel VGA
Transmission Distance	50m	--	35m
Video Signal Input Interface	HDMI interface	HDMI interface	Female 15, VGA port
Video Input Port	HDMI interface	HDMI interface	Female 15, VGA port
Transmission Port	RJ45 port	--	RJ45 port
Resolution	1080P/1080i/720P/576P/ 576i/480P/480i	4K/1080P/1080i/720P/576P/ 576i/480P/480i	640×480/800×600/1600×1050/ 1600×1200/1920×1200/1920×1080
Working Temperature	-10°C~55°C (14°F~131°F)	-10°C~55°C (14°F~131°F)	0°C~+55°C (+32°F~+131°F)








## Power Supply

Safe and reliable power supply accessories for our products.

- DC power adapter: Wide temperature operation from -30°C~+70°C and lightning protection up to 4KV
- Distributed power: Offers wall mount installation, providing convenient power supply to different devices
- Switch power: High quality, reliable, widely used, and flexible
- 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)

## Cables

New network cables with higher quality and higher cost-performance ratio.

- 305m/carton UTP CAT5e, Power-over-Ethernet compatibility with one cable
- High-purity and oxygen-free copper conductor material
- Customized PVC sheath, CE CPR Eca or ANSI UL CM flame retardant class certified
- Top-notch quality commitment for 10 years



### Cables

Model	PFM920I-5EUN	PFM920I-6UN-C	PFM922I-6UN-C	PFM922I-5EUN-C
Appearance				
Category	CAT5e	CAT6	CAT6	CAT5e
Conductor Material	Oxygen free copper (99.97% purity)	Oxygen free copper (99.97% purity)	CCA (Copper content 22%~31%)	CCA (Copper content 22%~31%)
Conductor Diameter	0.45 mm ± 0.01 mm	0.53 mm ± 0.005 mm	0.57 mm ± 0.01 mm, 23AWG	0.5 mm ± 0.01 mm
Sheath	PVC	PVC	PVC	FR-PVC (ROHS compliant)
Certification	CPR Eca	CPR Eca	CPR Eca	CPR Eca
Length	305m (1000ft)	305m (1000ft)	305m (1000ft)	305m (1000ft)
Color	White	White, Orange, Blue	Orange	White, Orange

### Cables

Model	PFM923I-6UN-C	PFM920I-5EU-U	PFM920I-6U-U	PFM920I-6U-C
Appearance				
Category	CAT6	CAT5e	CAT6	CAT6
Conductor Material	Oxygen free copper (99.97% purity)	Oxygen free copper (99.97% purity)	Oxygen free copper (99.97% purity)	Oxygen free copper (99.97% purity)
Conductor Diameter	0.53 mm ± 0.005 mm	0.5 mm ± 0.01 mm, 24AWG	0.57 mm ± 0.01 mm, 23AWG	0.57 mm ± 0.01 mm, 23AWG
Sheath	LSZH	PVC	PVC	PVC
Certification	CPR Eca	UL CM	UL CM	CPR Eca
Length	305m (1000ft)	305m (1000ft)	305m (1000ft)	305m (1000ft)
Color	White	White	White	White

# ACCESSORIES

## Cabinets

Cabinets provide protection and stable working environment for storage devices. It also serves as shield against electromagnetic interference.

- Aesthetic design
- Standard 19" rack
- Supports wall mount and plane mount
- Cable entry on the top cover and bottom panel
- The four sides around the cabinet can be opened



### Cabinets

Model	PFC200D-6U4D	PFC200D-9U4D	PFC200D-12U4D	PFC200D-18U6D
Appearance				
Material	SPCC	SPCC	SPCC	SPCC
Dimension (WxDxH)	600mmx450mmx372mm (23.62"x17.72"x14.57")	600mmx450mmx505mm (23.62"x17.72"x19.88")	600mmx450mmx638mm (23.62"x17.72"x25.12")	600mmx600mmx990mm (23.62"x23.62"x38.98")
Weight	13kg (28.66lb)	15.6kg (34.39lb)	18.1kg (39.9lb)	39.5kg (87.08lb)
Load Bearing	40kg (88.18lb)	40kg (88.18lb)	40kg (88.18lb)	300kg (661.39lb)
Color	Black	Black	Black	Black

### Cabinets

Model	PFC200D-42U8D	PFC610-4D	PFC610-6D	PFC610-8D
Appearance				
Material	SPCC	SPCC	SPCC	SPCC
Dimension (WxDxH)	600mmx800mmx2055mm (23.62"x31.5"x80.91")	489mmx275mmx47.6mm (19.25"x10.83"x1.87")	472mmx350mmx48mm (18.56"x13.78"x1.87")	472mmx550mmx48mm (18.56"x21.65"x1.87")
Weight	89kg (196.21lb)	1.6kg (3.53lb)	1.9kg (4.19lb)	2.8kg (6.17lb)
Load Bearing	300kg (661.39lb)	40kg (88.18lb)	40kg (88.18lb)	40kg (88.18lb)
Color	Black	Black	Black	Black

# ACCESSORIES

Cabinets			
Model	PFC200D-6U4D	PFC200D-9U4D	PFC200D-18U6D
Appearance			
Voltage	220 V	220 V	220 V
Rotational Speed	2,200±10% RPM	2,200±10% RPM	2,200±10% RPM
Noise	45 dB (A)	45 dB (A)	45 dB (A)
Power	30 W	30 W	30 W
Lifespan	30,000 hours at +25 °C (+77 °F)	30,000 hours at +25 °C (+77 °F)	30,000 hours at +25 °C (+77 °F)
Casing	Cold rolled sheet [width: 0.8mm (0.03")]	Cold rolled sheet [width: 0.8mm (0.03")]	Cold rolled sheet [width: 0.8mm (0.03")]
Color	Black	Black	Black
Operating Temperature	-10 °C~+60 °C (+14 °F~+140 °F)	-10 °C~+60 °C (+14 °F~+140 °F)	-10 °C~+60 °C (+14 °F~+140 °F)
Dimensions	346 mm×155 mm×76 mm (13.62"×6.10"×2.99")	450 mm×365 mm×46 mm (17.72"×14.37"×1.81")	564 mm×450 mm×46 mm (22.20"×17.72"×1.18")
Weight	1.1 kg (2.43 lb)	2.2 kg (4.85 lb)	3.6 kg (7.94 lb)

Cabinets			
Model	ZZM10/PDU (8 European 250)	ZZM10/PDU (8 British 250)	ZZM10/PDU (8 USA 250)
Appearance			
Input Rated Voltage	Max. 250Vac	Max. 250Vac	Max. 250Vac
Load Current	16A	13A	10A
Max. Load Power	4000 W	3250 W	2500 W
Input Plug/Cable	European/1.5mm2, 2m	British/1.5mm2, 2m	North American/1.3mm2, 3m
Output Plug	8 outlet 3-pin European	8 outlet 3-pin British	8 outlet 3-pin, Universal (North American)
Protection	Overload protection module and switch	N/A (no extra space)	Overload protection module and switch
Installation	Horizontal, rackmount in the 19" cabinet	Horizontal, rackmount in the 19" cabinet	Horizontal, rackmount in the 19" cabinet
Operating Conditions	-40°C~+70°C (-40°F~+158°F), 95% RH	-40°C~+70°C (-40°F~+158°F), 95% RH	-40°C~+70°C (-40°F~+158°F), 95% RH
Dimensions	482.6mm×45mm×45mm (19"×1.77"×1.77")	482.6mm×45mm×45mm (19"×1.77"×1.77")	482.6mm×45mm×45mm (19"×1.77"×1.77")
Net Weight	0.8kg (1.76lb)	0.8kg (1.76lb)	1.0kg (2.2lb)

# ACCESSORIES

## Pickups

Choose from a variety of pickup products to effectively capture live sounds.

- High-sensitivity microphone
- Intelligent noise reduction
- Smart audio crack protection
- Wide dynamic range processing technology
- Automatic supplement function








Pickups				
Model	HAP100	HAP201	HAP301	HAP120
Appearance				
Scope	5-40m <sup>2</sup>	1-150m <sup>2</sup>	1-150m <sup>2</sup>	10-70m <sup>2</sup>
Sensitivity	-40dB	-38 dB	-38 dB	-34dB
Frequency Response	20Hz~20kHz	20 Hz~20 kHz	20 Hz~20 kHz	80Hz~16kHz
Directional Characteristic	Omni-directional	Omni-directional	Omni-directional	Omni-directional
SNR	70dB	85 dB	85 dB	58dB
Dynamic Range	104dB	106 dB	106 dB	74dB
Max. Sustainable Sound pressure	120dB SPL (1KHz, THD 1%)	120dB SPL (1KHz, THD 1%)	120dB SPL (1KHz, THD 1%)	110dB SPL (1KHz, THD 1%)
Output Impedance	600Ω (non-equilibrium)	25 Ω non-balanced	25 Ω non-balanced	600Ω (non-equilibrium)
Output Signal Amplitude	2.5Vpp/-25dB	2.5 VPP/-25 dB	2.5 VPP/-25 Db	2.5Vpp/88dB SPL
M.O.D.	0.3m (0.98ft)	0.5m (1.64ft)	0.5m (1.64ft)	0.3m (0.98ft)
Working Temperature	-30°C ~ +70°C (-22°F ~+158°F)	-20 °C ~ +60 °C (-4 °F ~+140 °F)	-20°C ~ +60°C (-4 °F ~+140 °F)	-30°C ~+70°C (-22°F ~+158°F)

Pickups			
Model	HAP320	HAP120-V	HAP320-V
Appearance			
Scope	10-150m <sup>2</sup>	5m	5-100m <sup>2</sup>
Sensitivity	-35dB	-43dB	-24dB
Frequency Response	20Hz~20kHz	20Hz~20kHz	20Hz~20kHz
Directional Characteristic	Omni-directional	Omni-directional	Omni-directional
SNR	65dB	58dB	68dB
Dynamic Range	86dB	74dB	84dB
Max. Sustainable Sound pressure	115dB SPL (1KHz, THD 1%)	110dB SPL (1KHz, THD1%)	110dB SPL (1KHz, THD 1%)
Output Impedance	100Ω (non-equilibrium)	100Ω (non-equilibrium)	100Ω (non-equilibrium)
Output Signal Amplitude	2.5Vpp/92dB SPL	2.5Vpp/101dB SPL	2.5Vpp/90dB SPL
M.O.D.	0.3m (0.98ft)	0.5m (1.64ft)	0.5m (1.64ft)
Working Temperature	0°C~+50°C (32°F~+122°F)	-30°C~+70°C (-22°F~+158°F)	-30°C~+70°C (-22°F~+158°F)

# VIDEO MANAGEMENT SOFTWARE

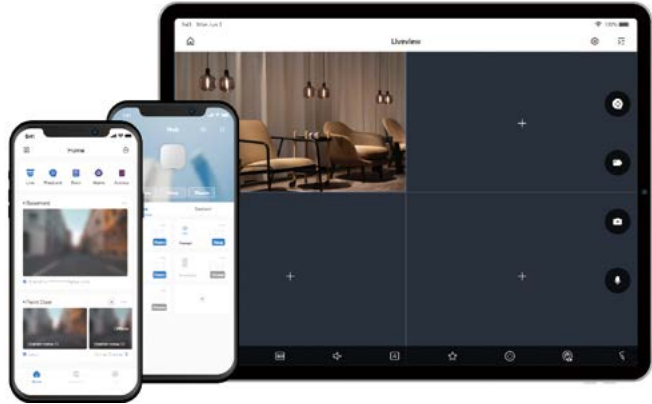
## DSS Products

	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 your 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 Notification	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)

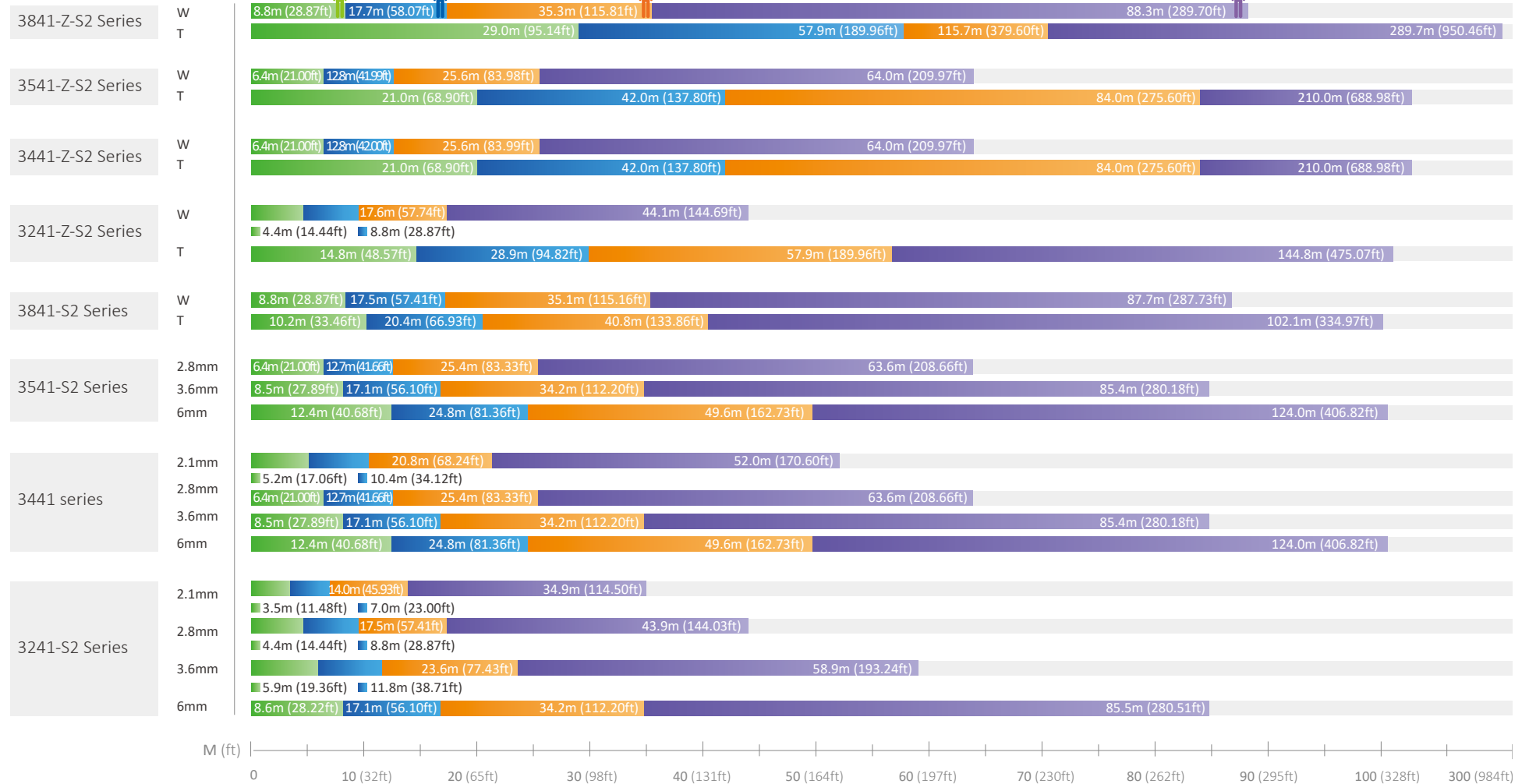
Find the Optimal Camera for Your Customized Surveillance Needs

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

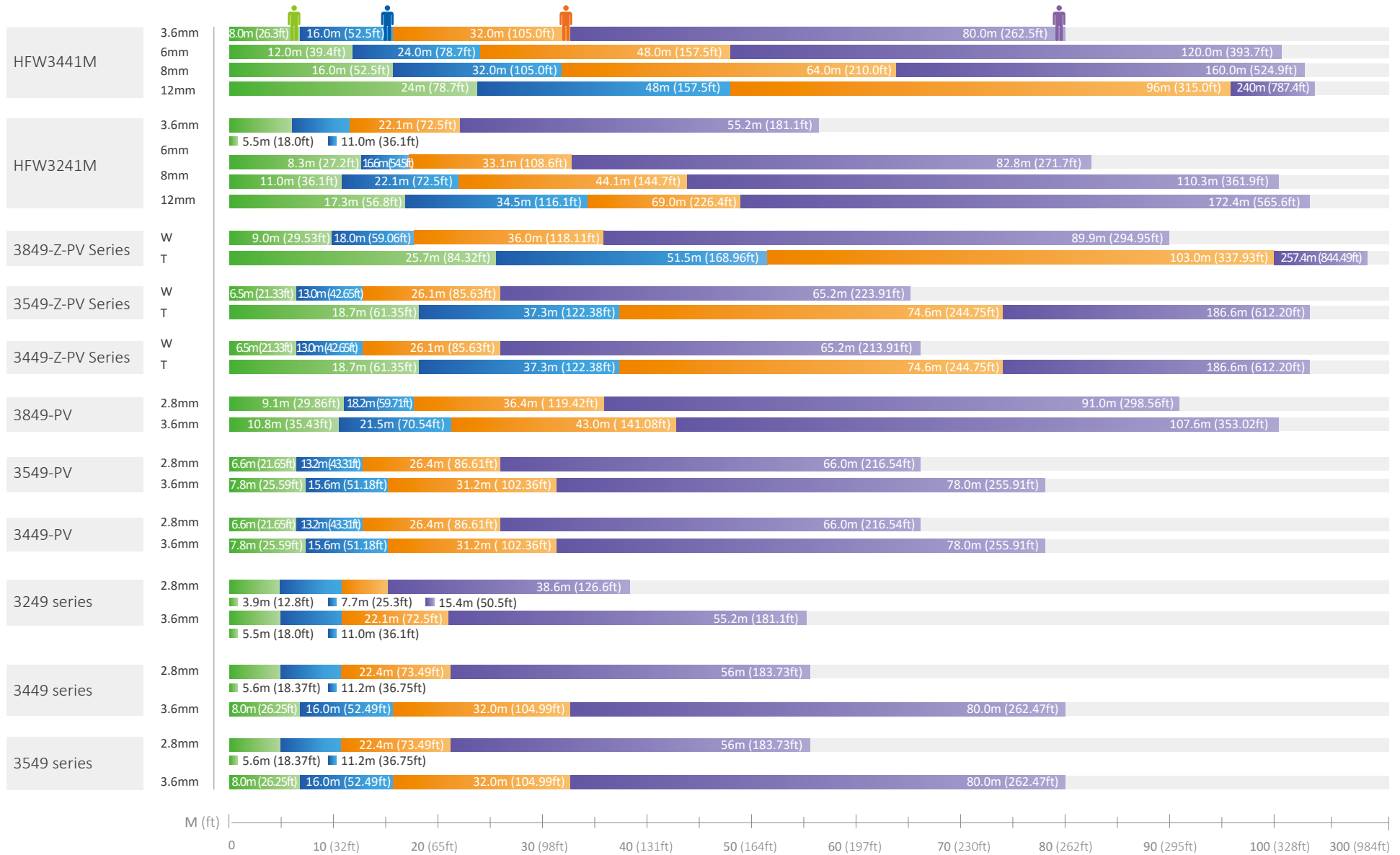
### WizSense 3 Series



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

## NETWORK CAMERAS

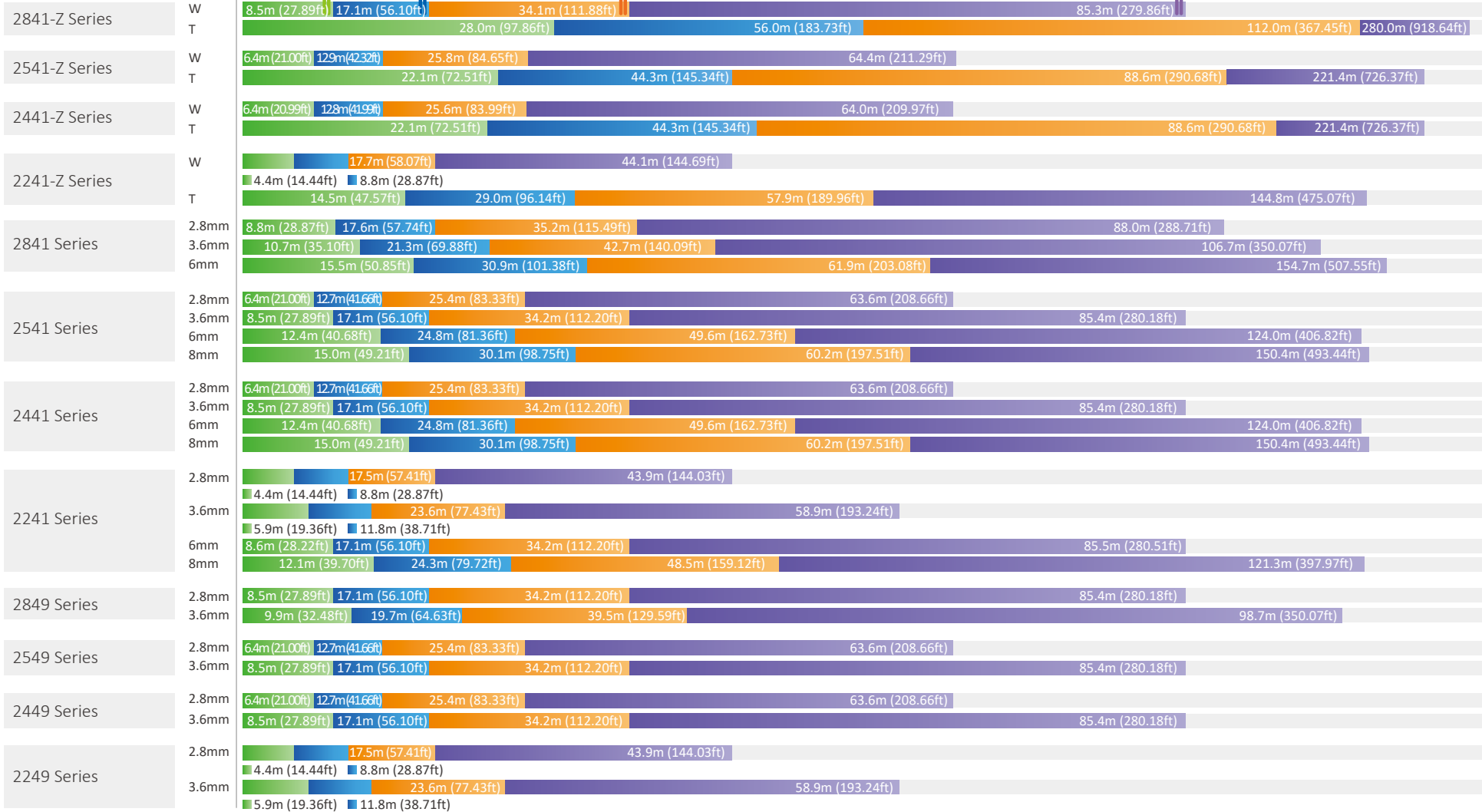
### WizSense 3 Series



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

## NETWORK CAMERAS

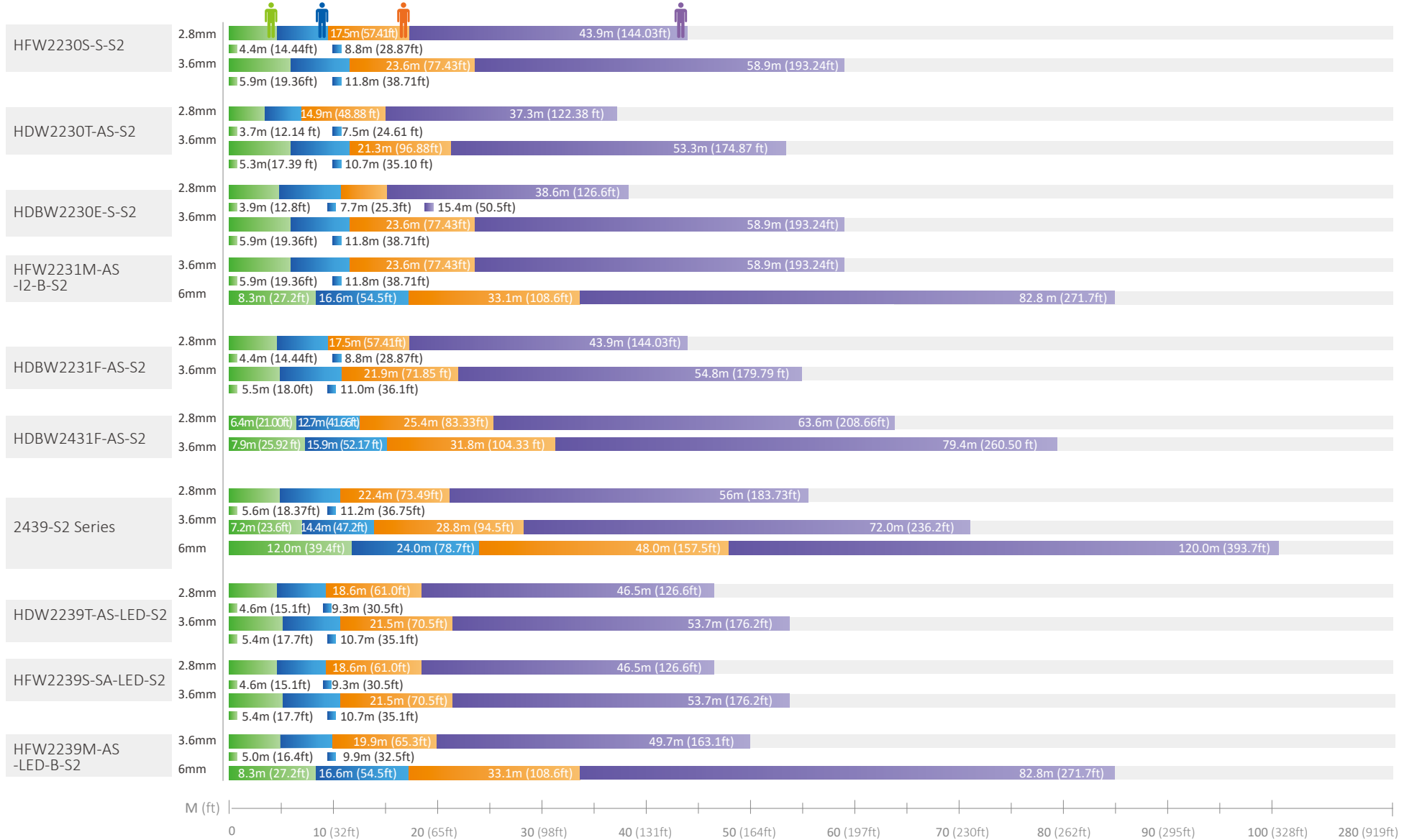
### WizSense 2 Series



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

## NETWORK CAMERAS

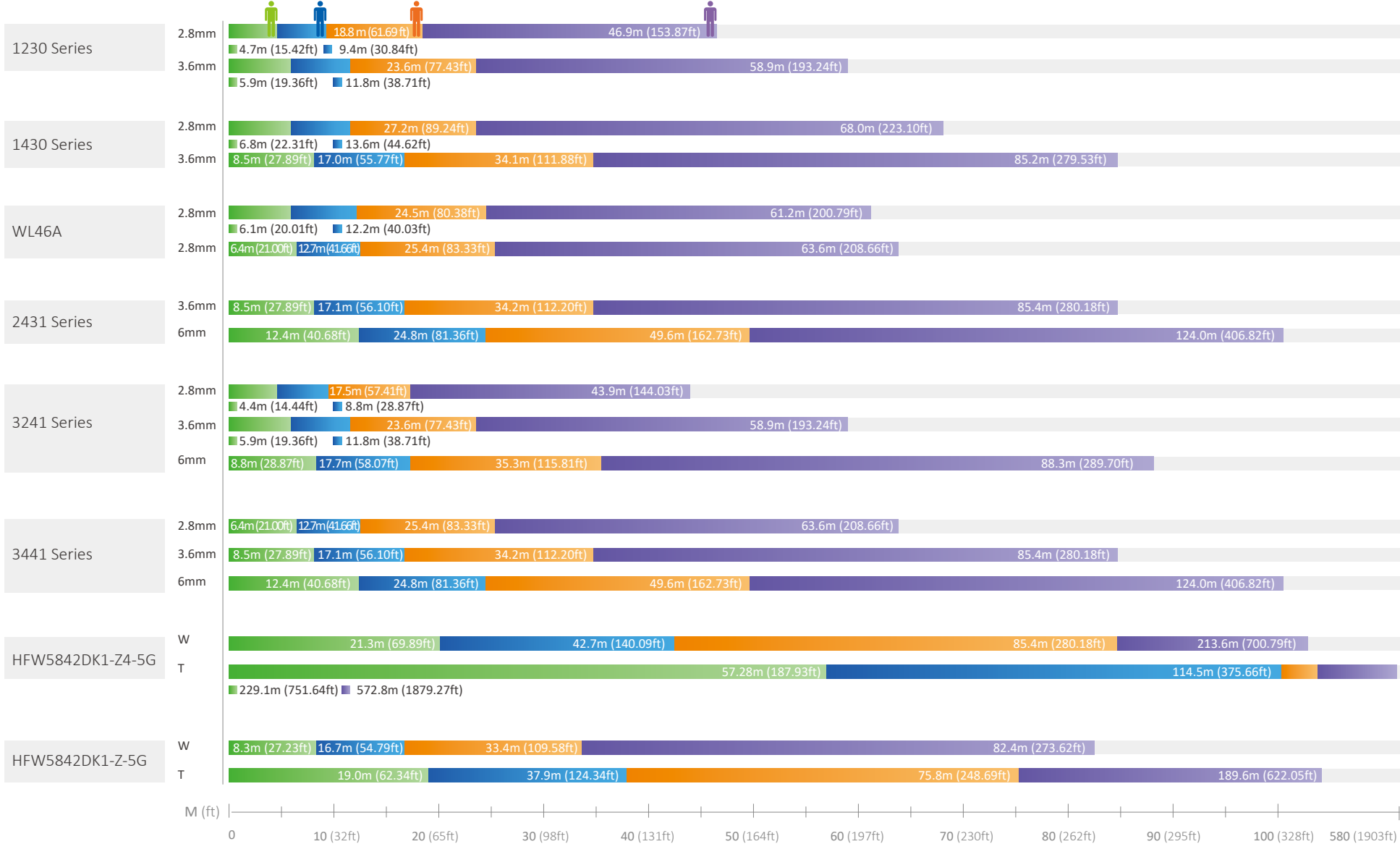
### Lite Series



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

## NETWORK CAMERAS

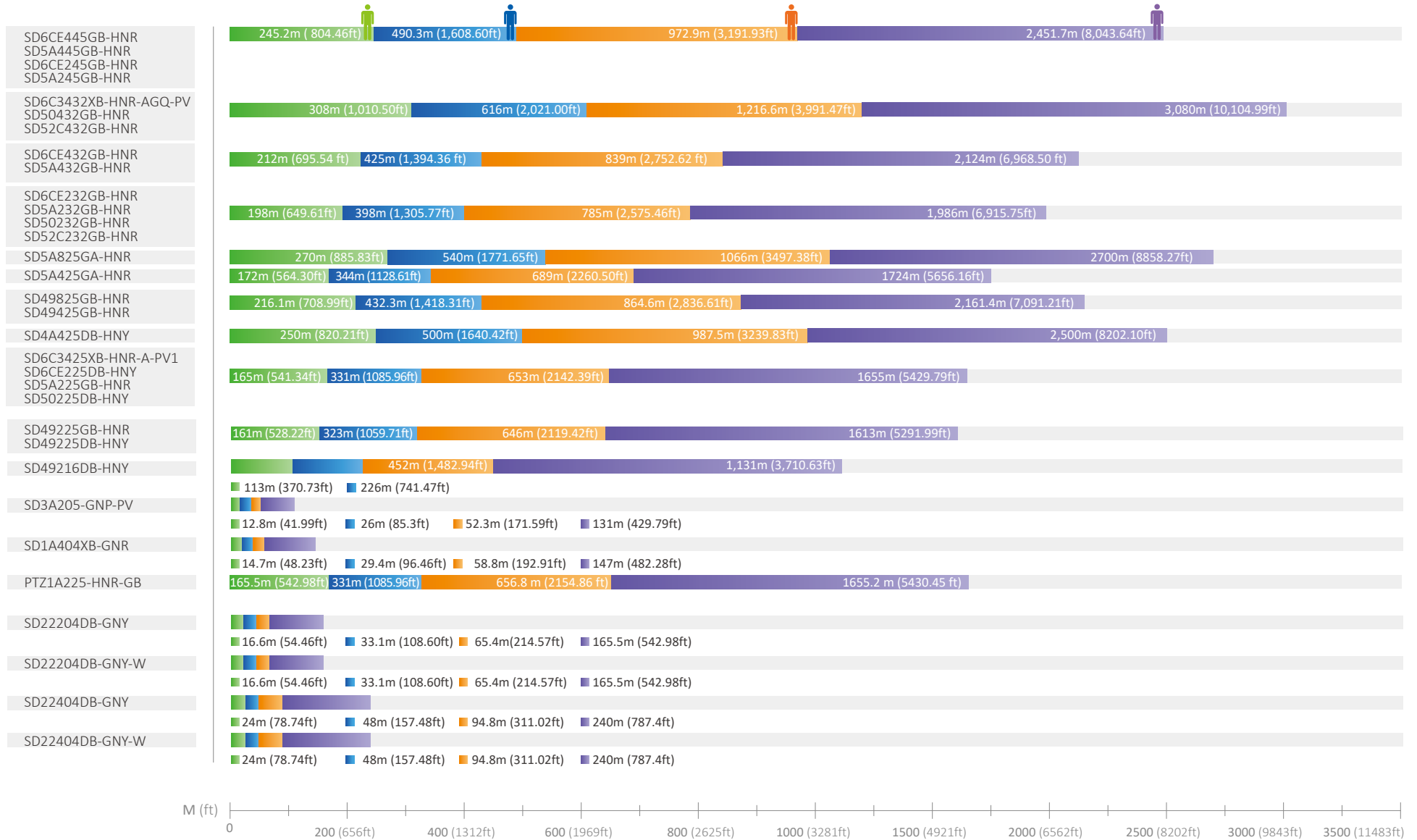
### Wireless Series



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

## NETWORK PTZ CAMERAS

### WizSense Series

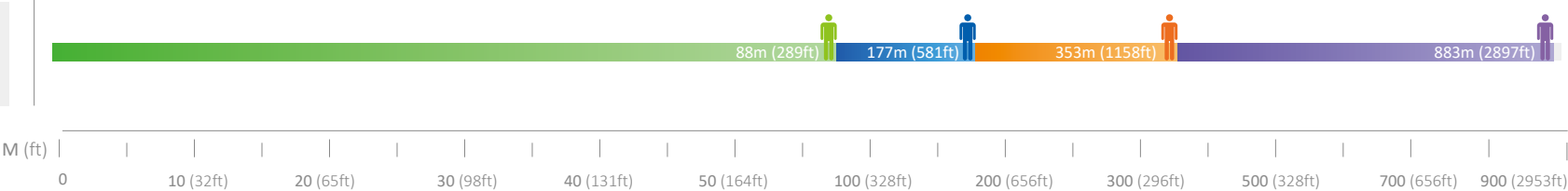


# DORI DISTANCE (D/O/R/I)

## NETWORK PTZ CAMERAS

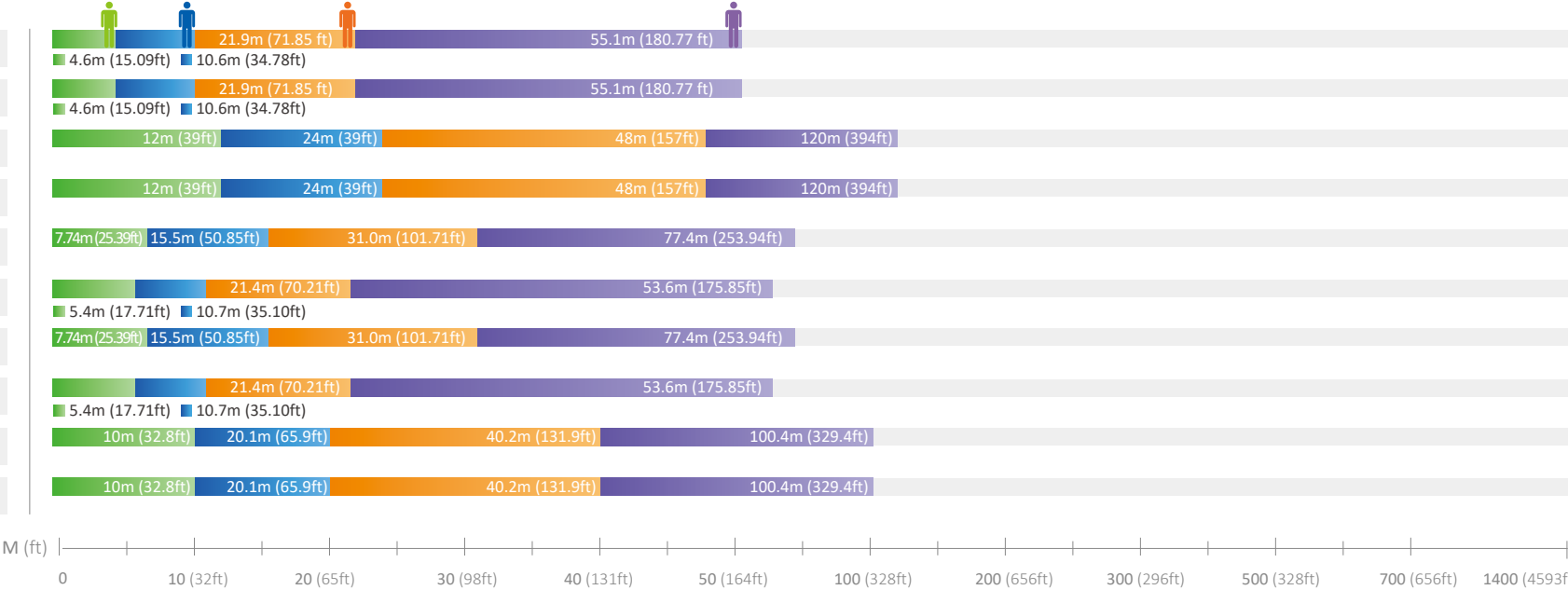
### Pro Series

- SD40212T-HN-S2
- SD42212T-HN-S2
- SD42C212T-HN-S2



### Lite Series

- SD3A400-GN-A-PV
- SD3A200-GN-A-PV
- SD29204UE-GN
- SD29204UE-GN-W
- SD2A500HB-GN-A-PV-S2
- SD2A200HB-GN-A-PV-S2
- SD2A500HB-GN-AW-PV-S2
- SD2A200HB-GN-AW-PV-S2
- SD1A203T-GN
- SD1A203T-GN-W



# DORI DISTANCE (D/R/I)

## NETWORK THERMAL CAMERAS

■ Detection distance ■ Recognition distance ■ Identification distance

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.

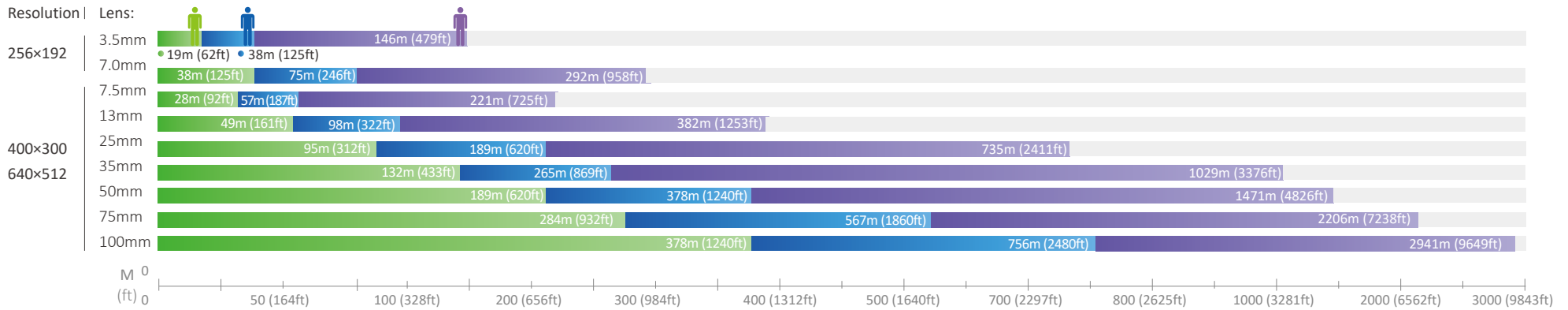
[[http://en.wikipedia.org/wiki/Johnson's\\_criteria](http://en.wikipedia.org/wiki/Johnson's_criteria)].

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

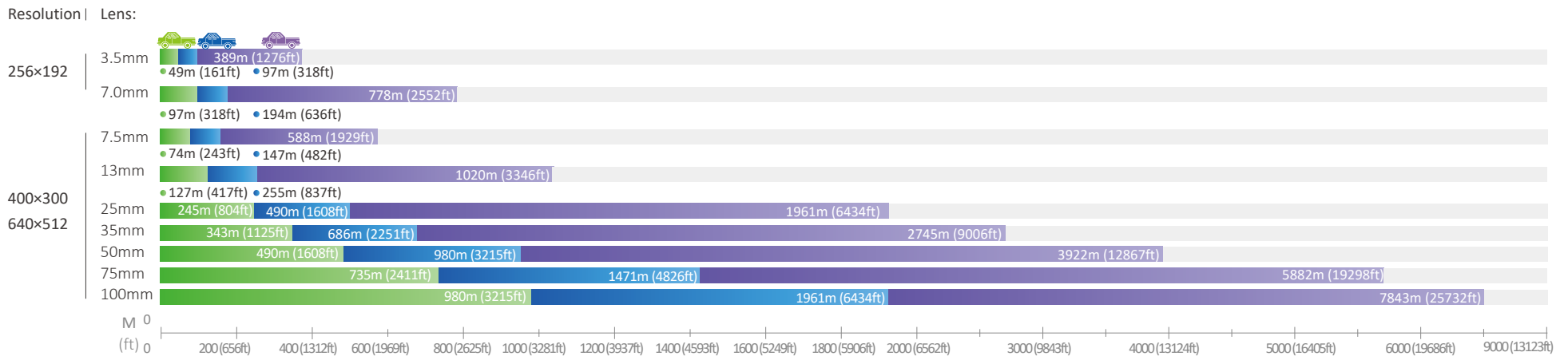
Recognition: Distinguish classification of objects [Human, Vehicle or Building]  
Required minimum pixels: Human 14 pixels, Vehicle 12 pixels

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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