



TAA&NDAA Compliant

2023 IP Brochure



Preface

We create, we innovate.

Hi, this is Merit LILIN. We are the first ONVIF-compliant camera manufacturer and expert with leading achievements in video transmission and analysis technology. LILIN integrates AIoT applications, edge computing, and security equipment into a total solution for cross-industry applications in industrial and commercial environments such as construction, transportation, shipping, ports, military, retail, office premises, schools, banks, entertainment venues, and factories, as well as adapting product capabilities to meet public facility needs in line with government strategies.

LILIN is committed to providing highly reliable products and services in the field of video integration and event analysis, such as license plate recognition, face recognition, advanced electronic fencing, vehicle, and pedestrian flow detection, social distance detection, mask detection, lost and found, and site safety applications.

Please contact us If you can't find applicable specs in this brochure, we'll tailor a solution for you!



What we do

- IP/AHD Surveillance Solution
- AIoT Integration
- Video Management Applications



One stop business offerings

We have our factory and are proud of its production efficiency and quality control. With the ability to integrate design, development, and manufacturing into a one-stop service, we are confident in agilely delivering your demands.



Made in Taiwan

LILIN's NDAA-Compliant solution offers complete camera lines, cost-effective standalone NVR, powerful servers, and a video management system that empowers much-advanced functionality. Additionally, our customers can apply from an entry-level to more complex projects.

LILIN's vision is to become a total solution provider in the IP surveillance industry. In addition to reinforcing its leading position in Taiwan, LILIN will spare no effort in strengthening its international presence. We present practical and state-of-the-art network surveillance solutions to the global market.

43 years
since 1980.

- | As a 43 years company, LILIN has extensive experience in handling issues that may arise, greatly reducing the cost of communication with clients.
- | Flexible global business capabilities and diverse services from economical solutions to mass deployment, and diversification to fit every demand.
- | Quick response to each requirement to complete a project in a tight timeframe.
- | Nothing is uncustomizable, semi-custom with slight modifications or fully customized with specifications to precisely meet your needs.

LILIN IP Products

Aida

AI Series

p.8

Running AI smoothly at edge

Including AI Camera, AI server and model conversion solutions to build an all-in-one AI framework.



Door Stations

p.45

Inventory of intercom

One-button door station with high quality camera supports SIP, PoE, and 2-way audio.



Z Series

p.22

Motorized lens with Auto Focus

Cameras with auto-focus feature.
Built-in motorized lens for remote control.



PTZ Series

p.47

Speed Dome

Pan, tilt, and zoom with auto-focus and tracking feature.



P Series

p.33

Outstanding image quality

Cameras with fixed lens.
Amazing optical quality in every aspect.



Covert Camera

p.56

Incognito Applications

Tiny lens with a small I/O Box.



Panoramic Series

p.43

Ultra wide angle fisheye

Cameras with panoramic views.
Vision is unlimited



NVR Series

p.58

ARM Network Video Recorder

Linux based host to storage and manage video and events.



NAV Series

x86 Network Video Recorder

p.60

Windows based host to storage and manage video and events.



VMS Series

Video Management Software

p.65

Running video management features in your devices.



CMS Series

Central Management Software

p.67

Running central management features in your device.

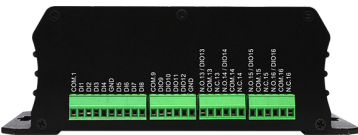


NCS Series

x86 Central Management Server

p.69

Windows based host to storage and manage video and events.



Programmable IO BOX

Smart IO Hub

p.71

Expands IO capabilities of IP devices.



Device Management

Manage all devices on ONE cloud

p.73

Manage devices in no distance. Gather device information and send reboot command remotely.



TV Wall Server

Output matrix videos

p.75

Combined with Navigator Software to manage and output matrix videos. (Used with control center)



Housing

Shells to protect the camera

p.77

Various of outer cases for cameras to use in different applications and environment.

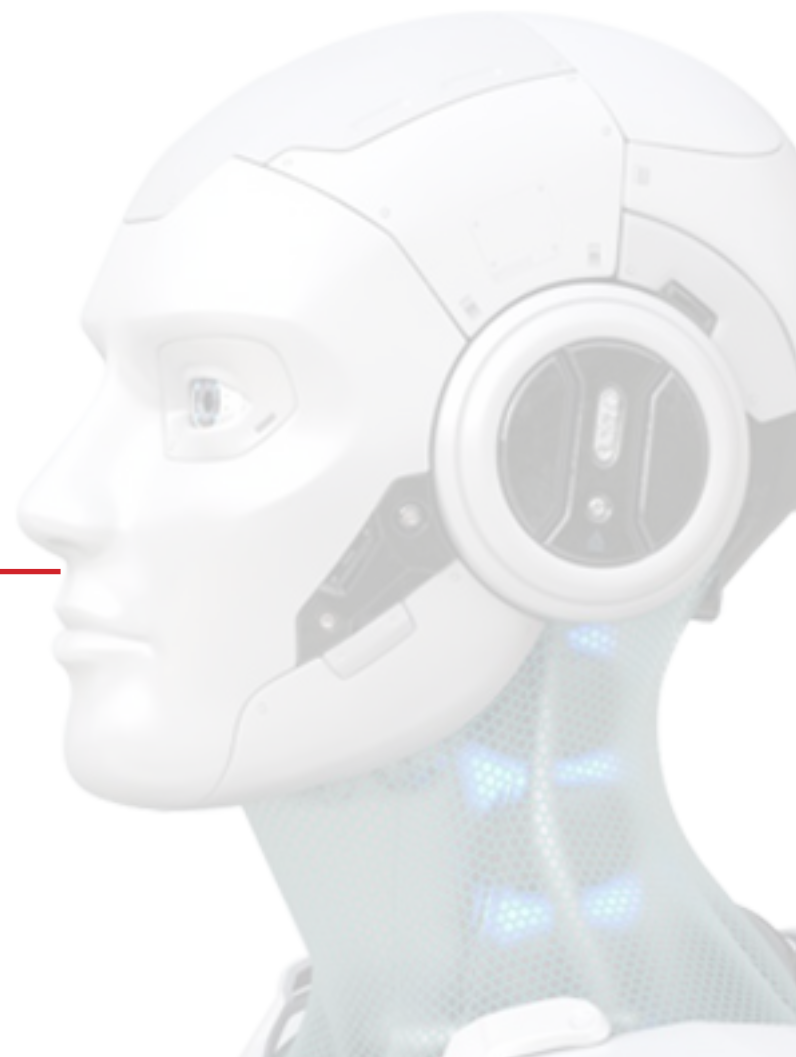
Naming Rule

Model Name	Category	Identifier	Description	Identifier	Description	
Z7	P2	Video	IP	H.264 2MP 30fps	Z	H.264 AF 2MP 30fps
			M	H.264 2MP 30fps / 4MP 20fps	ZM	H.264 AF 2MP 30fps / 4MP 20fps
			S	H.264 2MP 60fps	ZS	H.264 AF 2MP 60fps
			UF	H.264 2MP 120fps	ZF	H.264 AF 2MP 120fps
			UH	H.264 4K 30fps	ZH	H.264 AF 4K 30fps
			F	H.264 Panoramic		
			F2	H.265 Panoramic		
			P2	H.265 2MP 60fps / 5MP 20fps 120dB	Z2	H.265 2MP 60fps / 5MP 20fps 120dB
			P3	H.265 2MP 30fps 120dB	Z3	H.265 2MP 30fps 120dB
			P5	H.265 2MP 30fps / 5MP 20fps (Sigmastar) 70dB	Z5	H.265 AF 2MP 30fps / 5MP 20fps (Sigmastar) 70dB
			P6	H.265 5MP 30fps / 8MP 30fps (Novatek) 120 dB	Z6	H.265 AF 5MP 30fps / 8MP 30fps (Novatek) 120 dB
			P7	H.265 8MP 30fps AI model (CV22) 140 dB	Z7	H.265 AF 8MP 30fps AI model (CV22) 140 dB
R	R	Appearance Type	G/B: Box, D: Dome, R: Bullet/IR, C: Customization, W: None IR/White LED			
80	63	Appearance	Customization	01, 04, 05, 07, 08, 09		
			Box	10, 11, 12		
			Dome	21, 22, 23, 24, 25, 29, 30, 31, 33, 36, 37		
			VR Dome	60, 61, 62, 63, 64, 65, 68, 69		
			Bullet	70, 72, 73, 74, 77, 79, 80, 81, 82, 83, 84, 88, 89, 90		
8	2	Resolution	0: VGA, 1: 1MP/1.3MP, 2: 2MP, 3: 3MP, 4: 4MP, 5: 5MP, 6: 6MP, 8: 8MP(4K), C: 12MP			
2	2	Power	0: None, 2: DC12V, 3: AC230V, 4: AC24V, 6: DC12V/AC24V, 7: AC117V, 8: AC90~260V, 9: DC48V			
	A	Function	blank: Normal, Different functions vision: A, B, C ... Z			
E	E	PoE	blank: No PoE, E: PoE			
X		Lens	blank: fixed lens, X: vari-focal lens P: Pin hole lens, IM: Immervision lens			
30	2	Focal length Ratio	numbers: The focal length multiplier.			
	-AI	Extension	O: OIS Lens, P: P-iris Lens, AI: Aida AI, LPR: Lisen Plate Recognition at front end			

AIDA [*'aida*]

艾達

That's what we call LILIN's AI solution.



We Offer

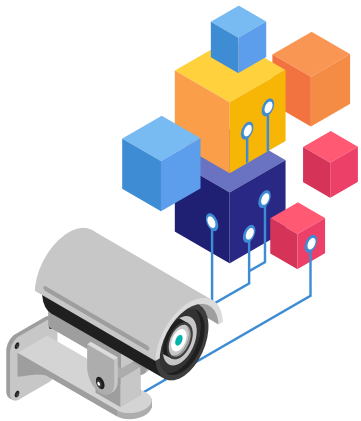
- AI Camera
- AI Server
- Self+AI YOLO Cloud



Overview

It's OKAY to use your **YOLO** models!

In addition to the built-in models, you can package your models into modules through the LILIN Self + AI Conversion Cloud, and feed the modules into LILIN AI Cameras to combine rich behavior modes for various applications.



Inferencing on Camera

AI workloads happen in front-end cameras, eliminating the need to go through a PC, which is key to the smooth deployment of the edge computing business model.

Use your models

Train your models, convert them by Self+AI Cloud, and install them on LILIN AI Cameras.

Amazing SoC Performance

Powered by Ambarella processor, the performance is better than the x86 platform with a discrete graphics card.

Rich behaviors

Cross-compose the models with built-in behaviors in LILIN AI Cameras into a variety of highly scalable applications.

C# & Python Compatible

Yes! We provide SDK. You can retrieve the data from cameras through C# or Python framework. Visit LILIN Github for examples.

Vulnerability Proof

AI models are double-level encrypted by AES-256, you own the key to decrypt it, we own the key of firmware. Your data is incredibly safe.

AI by yourself

Fast & Agile

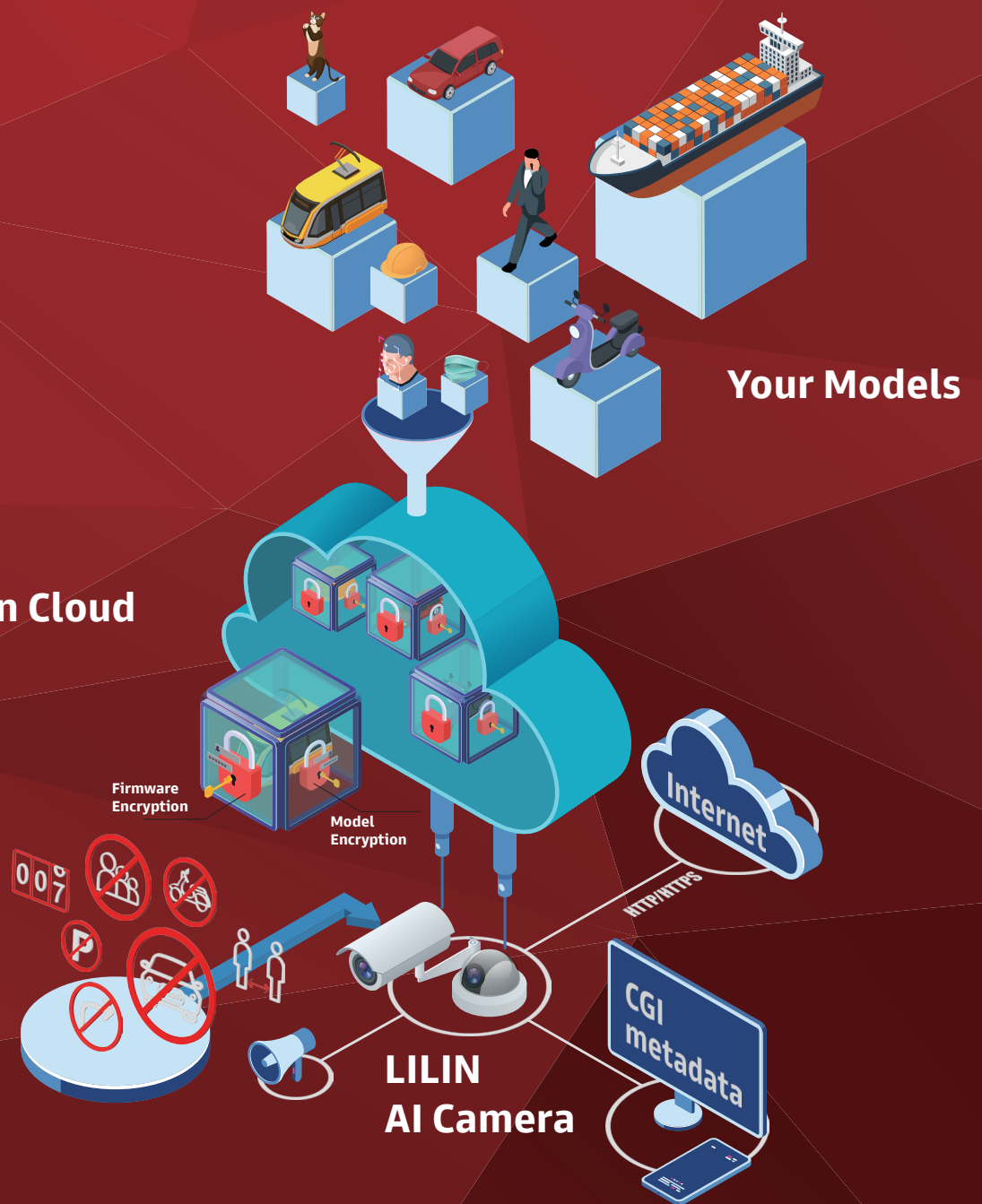
Easy to deploy

Compatible with
LILIN AI Cameras



**LILIN
Self+AI
Conversion Cloud**

Behaviors



Frontend **AI** Camera

Dedicated cameras handle AI recognition and event triggers without backend, significantly reducing wiring, hardware, and power costs.

It's also more flexible in terms of space utilization.



More Cameras



Scenarios

Limited space
Limited Bandwidth
Low-latency applications



4K

4K Resolution

Benefit from the higher resolution, it has higher success rate than 1080p cameras

10
FPS

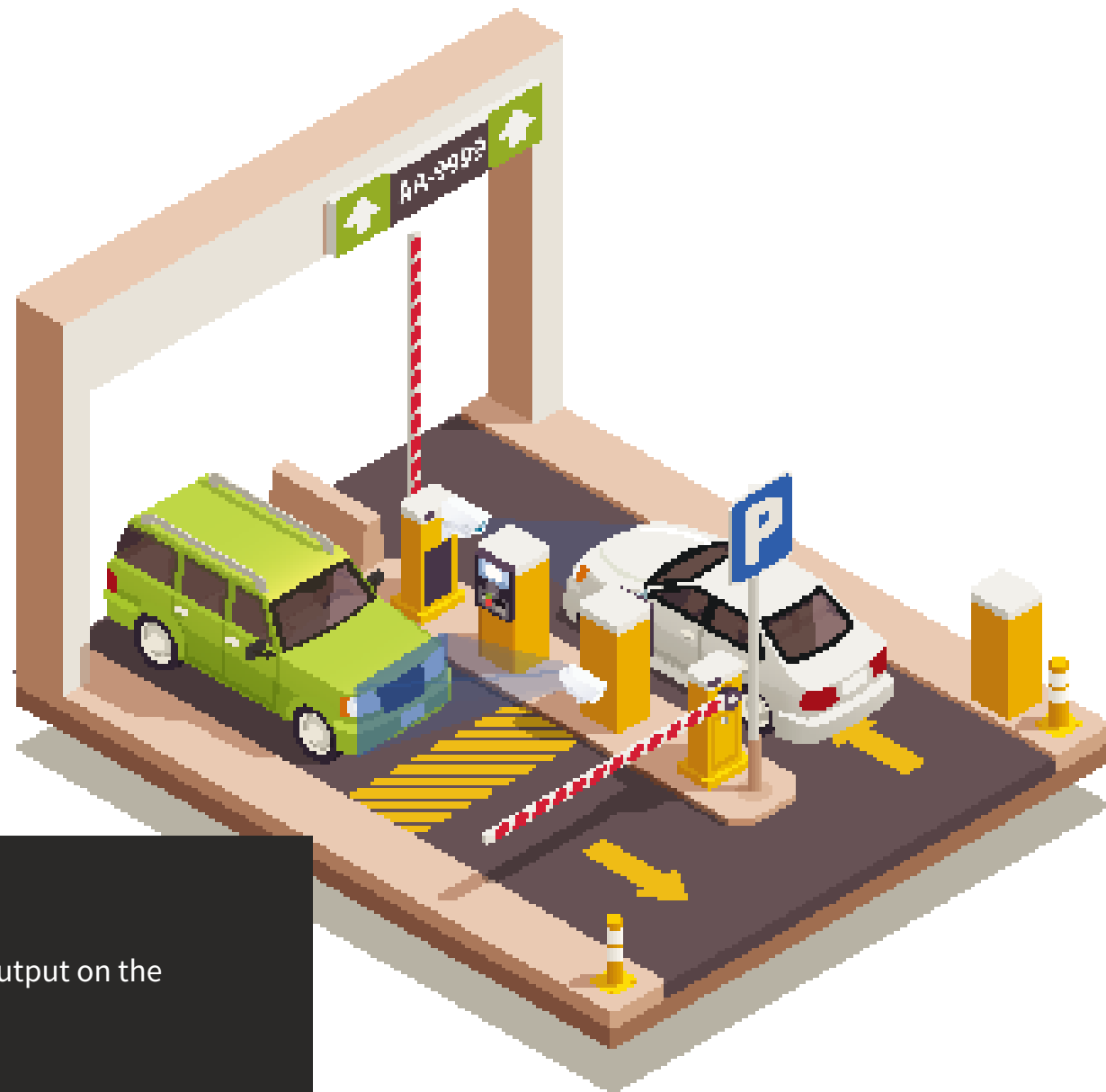
Recognition Speed

Faster than a server powered by a dedicated GPU, the camera analyzes video in 10fps.



No more decoding

AI workload finished at the front-end, saves bandwidth and cloud performance.



In the scenario of the parking lot, gates are triggered by the digital output on the camera without a PC.

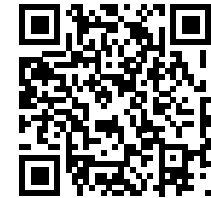
Backend **AI** Server

Don't want to upgrade cameras?

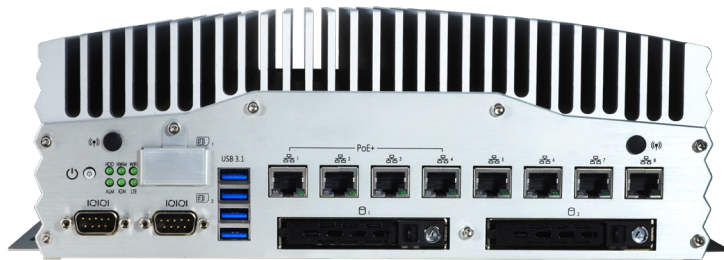
LILIN AIDA Server supports ONVIF cameras to do AI recognition at the backend, also has various features for management.

Scenarios

Centralized management
Low maintainability at the edge
Large storage



Server SPEC



**6ch
AI**

6ch AI x 6 times / Sec

36 times/sec of the recognition rate, different AI engines can be activated simultaneously to meet diverse demands.



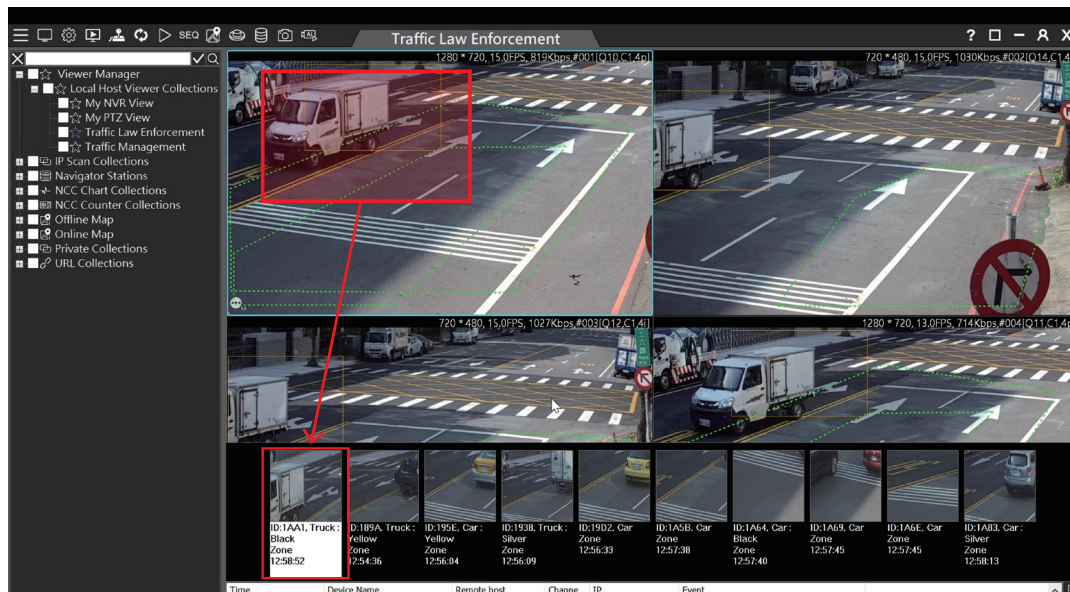
Low hardware cost

One server to handle all workloads of AI recognition demands from each camera.



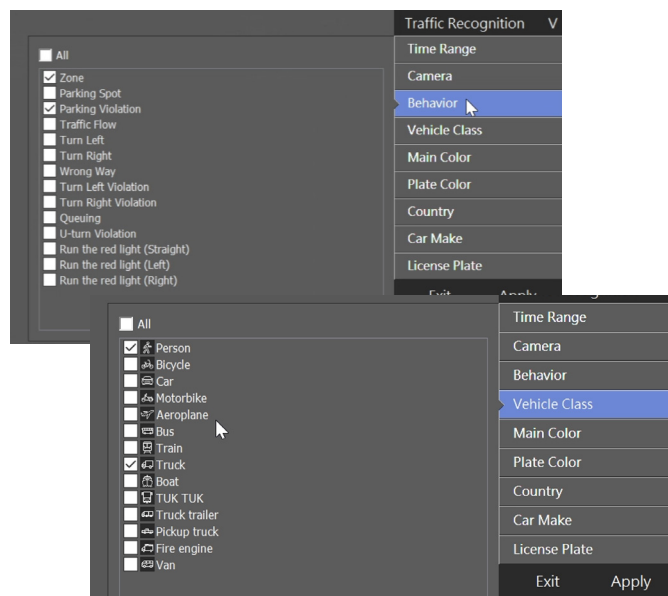
Larger Storage & Multiple I/Os

AI server is also a recorder to save video files, and the rich I/Os help to integrate peripherals smoothly.



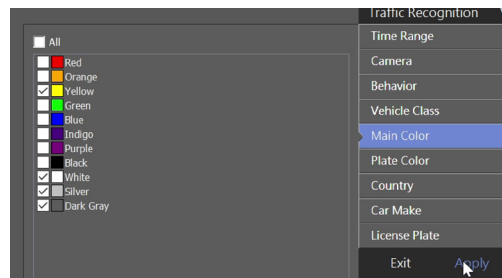
Snapshots

Save snapshots by events triggered by various combinations of objects and behaviors.

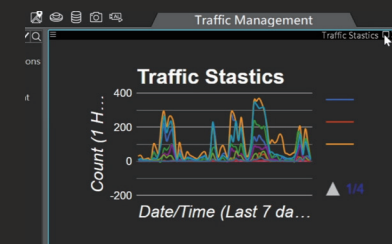


Search by categories

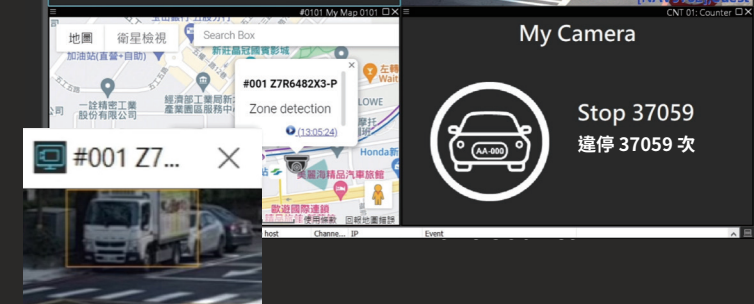
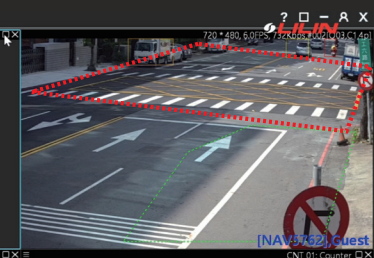
Filter events by multiple criteria to precisely locate results.



Statistics



Alert Zone



e-MAP

Use GoogleMap to record the location of events. Display and record images directly on the map without third-party software or other operational steps. The data can be retrieved and integrated into the backend via SDK.

Aida Server



Model	NAV3400AI	NAV2400AI	NAV2800AI
CPU	Intel® Core™ i7-8700	Intel® Core™ i7-8700	Intel® Core™ i9-9900K
RAM	16GB (2 × DDR4 8GB)	16GB (2 × DDR4 8GB)	16GB (2 × DDR4 8GB)
Chipset	Intel® H370 Chipset	Intel® H370 Chipset	Intel® H370 Chipset
Display card	1 x GTX1650-04G	Intel® UHD Graphics 630	Intel® UHD Graphics 630
AI VPU Core	-	PMH-XM2280 × 1	PMH-XM2280 × 1
Number of channel for recognition	4 channels	4 channels	8 channels
Version of Navigator Corporate required	4 channels license	4 channels license	8 channels license
Detection area	Configurable	Configurable	Configurable
Length of plate digits	Minimum and maximum length configurable	Minimum and maximum length configurable	Minimum and maximum length configurable
Exclusion list	Configurable	Configurable	Configurable
Total recognition speed	24 recognitions per second (=6 recognitions per second per channel)	21.2 recognitions per second (=5.3 recognitions per second per channel)	21.6 recognitions per second (=2.7 recognitions per second per channel)
Application field	Freeway	Parking	Parking
Vehicle detection speed	200kmh/125mph	60kmh/37mph	60kmh/37mph
Plate background color supported	White, yellow, green, black, and red supported	White, yellow, green, black, and red supported	White, yellow, green, black, and red supported
States / provinces	USA, Middle East, Japan, Indonesia, Thailand	USA, Middle East, Japan, Indonesia, Thailand	USA, Middle East, Japan, Indonesia, Thailand
Angle of license plate	Up to 15 degrees	Up to 15 degrees	Up to 15 degrees
Camera installation angle	0 to 30 horizontal degrees	0 to 30 horizontal degrees	0 to 30 horizontal degrees
SDK	License plate SDK available	License plate SDK available	License plate SDK available
Video resolution	1920 * 1080 or lower	1920 * 1080 or lower	1920 * 1080 or lower
Countries supported	ANPR3x00AI-AUS: Australia ANPR3x00AI-EUR: Austria, Belgium, Italy, Croatia, France, Turkey, Germany ANPR3x00AI-GBR: UK ANPR3x00AI-IDN: Indonesia, ANPR3x00AI-JPN: Japan ANPR3x00AI-MEA: Saudi Arabia, UAE, Iran, Iraq, Oman, Dubai ANPR3x00AI-SEA: Malaysia, Hong-Kong, Macau, Vietnam, Singapore ANPR3x00AI-TWN: Taiwan ANPR3x00AI-USA: 50 states, Guam, and Puerto Rico ANPR3x00AI-IND: India/Nepal ANPR3x00AI-THA: Thailand (support provinces) where x= 2, 4, 6 or 8 the number of recognition cameras	ANPR3x00AI-AUS: Australia ANPR3x00AI-EUR: Austria, Belgium, Italy, Croatia, France, Turkey, Germany ANPR3x00AI-GBR: UK ANPR3x00AI-IDN: Indonesia, ANPR3x00AI-JPN: Japan ANPR3x00AI-MEA: Saudi Arabia, UAE, Iran, Iraq, Oman, Dubai ANPR3x00AI-SEA: Malaysia, Hong-Kong, Macau, Vietnam, Singapore ANPR3x00AI-TWN: Taiwan ANPR3x00AI-USA: 50 states, Guam, and Puerto Rico ANPR3x00AI-IND: India/Nepal ANPR3x00AI-THA: Thailand (support provinces) where x= 2, 4, 6 or 8 the number of recognition cameras	ANPR3x00AI-AUS: Australia ANPR3x00AI-EUR: Austria, Belgium, Italy, Croatia, France, Turkey, Germany ANPR3x00AI-GBR: UK ANPR3x00AI-IDN: Indonesia, ANPR3x00AI-JPN: Japan ANPR3x00AI-MEA: Saudi Arabia, UAE, Iran, Iraq, Oman, Dubai ANPR3x00AI-SEA: Malaysia, Hong-Kong, Macau, Vietnam, Singapore ANPR3x00AI-TWN: Taiwan ANPR3x00AI-USA: 50 states, Guam, and Puerto Rico ANPR3x00AI-IND: India/Nepal ANPR3x00AI-THA: Thailand (support provinces) where x= 2, 4, 6 or 8 the number of recognition cameras

Aida Server



Model	NAV5108AI	NAV6106AI
CPU	Intel® Core™ i9-10900	Intel® Core™ i7-9750H
RAM	32GB (2 × DDR4 16GB)	16GB (2 × DDR4 8GB)
Chipset	Intel® H410	Intel® CM246
Display card	1 x NVIDIA RTX 2060 SUPER 8GB	1 x MXM NVIDIA GTX 1060
AI VPU core	-	-
Number of channel for recognition	8 channels	6 channels
Version of navigator corporate required	8 channels license	6 channels license
Detection area	Configurable	Configurable
Length of plate digits	Minimum and maximum length configurable	Minimum and maximum length configurable
Exclusion list	Configurable	Configurable
Total recognition speed	-	-
Application field	-	-
Vehicle detection speed	-	-
Plate background color supported	White, yellow, green, black, and red supported	White, yellow, green, black, and red supported
States / Provinces	USA, Middle East, Japan, Indonesia, Thailand	USA, Middle East, Japan, Indonesia, Thailand
Angle of license plate	Up to 15 degrees	Up to 15 degrees
Camera installation angle	0 to 30 horizontal degrees	0 to 30 horizontal degrees
SDK	License plate SDK available	License plate SDK available
Video resolution	1920 * 1080 or lower	1920 * 1080 or lower
Countries supported	ANPR3x00AI-AUS: Australia ANPR3x00AI-EUR: Austria, Belgium, Italy, Croatia, France, Turkey, Germany ANPR3x00AI-GBR: UK ANPR3x00AI-IDN: Indonesia, ANPR3x00AI-JPN: Japan ANPR3x00AI-MEA: Saudi Arabia, UAE, Iran, Iraq, Oman, Dubai ANPR3x00AI-SEA: Malaysia, Hong-Kong, Macau, Vietnam, Singapore ANPR3x00AI-TWN: Taiwan ANPR3x00AI-USA: 50 states, Guam, and Puerto Rico ANPR3x00AI-IND: India/Nepal ANPR3x00AI-THA: Thailand (support provinces) where x= 2, 4, 6 or 8 the number of recognition cameras	ANPR3x00AI-AUS: Australia ANPR3x00AI-EUR: Austria, Belgium, Italy, Croatia, France, Turkey, Germany ANPR3x00AI-GBR: UK ANPR3x00AI-IDN: Indonesia, ANPR3x00AI-JPN: Japan ANPR3x00AI-MEA: Saudi Arabia, UAE, Iran, Iraq, Oman, Dubai ANPR3x00AI-SEA: Malaysia, Hong-Kong, Macau, Vietnam, Singapore ANPR3x00AI-TWN: Taiwan ANPR3x00AI-USA: 50 states, Guam, and Puerto Rico ANPR3x00AI-IND: India/Nepal ANPR3x00AI-THA: Thailand (support provinces) where x= 2, 4, 6 or 8 the number of recognition cameras

Aida Face Mask Detection Server



Model	NAV6001AI-M
Number of channel for AIDA detection	Support 1 channel mask detection
Mask Detection Datasheet	6 detection per second
Detection speed	1 channel
Number of channel for mask detection	Up to 4 masks per channel
Number of Mask detection rate	Up to 24 masks per channel
Minimum face photo pixel requirement	100x100 pixel
No mask detected for alarm triggering	HTTP METADATA, IOBOX Alarm Output, NVR Alarm Output, IP CAMERA alarm output
Counter	Support
Can set up time range using counter	Support
Reset Counter mode	Manually / Schedule
CPU	Intel® Core™ i3-10100
RAM	8GB (1 × DDR4 8GB)
Chipset	Intel® H470
Display card	Intel® UHD Graphics 630
Language	English, Traditional Chinese, Spanish, German, French, Russian, Japanese, Portuguese, Italian, Simplified Chinese, Slovenian, Czech, Hungarian, Turkish, Arabic, Persian, Bengali, Vietnamese

Dedicated **AI** Software

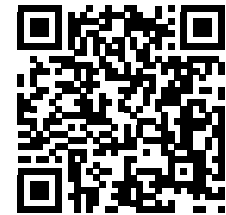
Don't want to upgrade or purchase additional hardware?

It's possible to install AI Software with SDK on your hardware on the premise that the specs of a Windows PC meet the requirement.



Scenarios

OEM
Solution Provider
Service Integration



Software SPEC



Expandable AI Volume

Flexible deploy AI applications in different scenarios.



For 7 Series Camera



For 7 Series Camera

Product code	EDGE LPR	EDGEFLOW
Supported AI engines	License Plate Recognition	Perimeter Person, Vehicle and Object Detection
Description	Support the identification of vehicle license plates with a speed of up to 100 kilometers per hour, and allow setting allowed and denial lists. License plate filtering for billing and visitor lists, license plate screenshots and record events for third-party device integration, according to the license plate list. When the license plate is recognized corresponding alarm output such as allowed list to open the gate, denial list to send an alarm is triggered.	Suitable for outdoor security with virtual fence protection, which can accurately trigger event when objects invade a restricted area. Meanwhile, it supports four groups of detection areas or detection line that can set the direction. Different trigger event output can be set for distinct detection area and line with AI recognition function. Moreover, it can filter out invalid objects and greatly reduce the false alarm rate.
Camera supported	LILIN Z7R8180X3-P, Z7R8180X2-P, and Z7R8180X10-P cameras	LILIN Z7/P7 series cameras
Recognition Speed	Support object recognition speed up to 7 frames per second at 4K, 9 frames per second at 1080P, and 11 frames per second at 720P	Support object recognition speed up to 12 frames per second at 4K, 14 frames per second at 1080P, and 16 frames per second at 720P
Behavior Detection	Support recognizing license plates in detection zone and provide event trigger to LILIN Navigator VMS Filter license plates by denial, allowed and visitor lists and trigger events Support triggering an event when the camera is blocked, redirected, or shaken (Tampering Detection)	Prohibited Zone: Support triggering an event when specified object(s) enters restricted area. Zone with Dwell / Parking Violation: Support triggering an event when specified object(s) enters restricted area and stays for a predefined duration of time. Tripwire / Traffic Flow: Support triggering an event when specified object(s) crosses the designed line in a predefined direction. AI Missing Object Detection: Support triggering an event when specified object(s) has been missing from the set detection zone for a predefined duration of time. Unattended or Missing Object: Support triggering an event when (unspecified) object(s) shows up within the set detection zone for a predefined duration of time. Also, triggers event when (unspecified) object(s) has been missing from the set detection zone for a predefined duration of time Tampering Detection: Support triggering an event when the camera is blocked, redirected, or shaken. All Object Detection (AND): Support triggering an event when all of the specified objects show up within the set detection zone at the same time (based on AND rule). Lack of any Object Detection (NAND): Support triggering an event when any of the specified objects is not present within the set detection zone (based on NAND rule)
Video Resolution	Support up to 4K(3840 x 2160) and 2MP(1920 x 1080) image recognition resolution	Support up to 4K(3840 x 2160) and 2MP(1920 x 1080) image recognition resolution
Event Trigger	Supports event triggering based on selected behavior Support setting start and end time to deny/allow each license plate as event trigger conditions	Support setting trigger by specific behaviors of specified objects Support setting 8 Cold Zones to minimize false alarms and improve the accuracy



For 7 Series Camera



For 7 Series Camera



For 7 Series Camera

Product code	EDGEMASK	EDGECAP	EDGESAFETY
Supported AI engines	Face Mask Detection	Person and Vehicle Counting	Helmet and Safety Vest Detection
Description	It can detect whether face mask is properly worn, and can be used in hospitals, schools, offices and public places. Just need to set up detection areas at each entrance and exit to monitor and find out whether someone wear a mask or fail to wear a mask, and trigger alarm notification.	The number of people and vehicles in detection area can be counted and managed. If counts are sent to the back-end host for storage purpose, the counts can be reset according to predefined setting.	Used to detect whether staff is indeed wearing helmet and safety vest in the work area, to ensure work place safety. If not wearing helmet or safety vest is detected alarms can be sent to back-end host for taking measures and storage.
Camera supported	LILIN Z7/P7 series cameras	LILIN Z7/P7 series cameras	LILIN Z7/P7 series cameras
Recognition Speed	Support object recognition speed up to 12 frames per second at 4K, 14 frames per second at 1080P, and 16 frames per second at 720P	Support object recognition speed up to 12 frames per second at 4K, 14 frames per second at 1080P, and 16 frames per second at 720P	Support object recognition speed up to 12 frames per second at 4K, 14 frames per second at 1080P, and 16 frames per second at 720P
Behavior Detection	Prohibited Zone: Support triggering an event when specified object(s) enters restricted area Zone with Dwell / Parking Violation: Support triggering an event when specified object(s) enters restricted area and stays for a predefined duration of time Tripwire / Traffic Flow: Support triggering an event when specified object(s) crosses the designed line in a predefined direction Tampering Detection: Support triggering an event when the camera is blocked, redirected, or shaken All Object Detection (AND): Support triggering an event when all of the specified objects show up within the set detection zone at the same time (based on AND rule) Lack of any Object Detection (NAND): Support triggering an event when any of the specified objects is not present within the set detection zone (based on NAND rule)	Density Detection Counter: Supports counting the number of specified objects in the detection area, if the number exceeds the set predefined number, the event will be triggered and counted Prohibited Zone Counter: Support triggering an event and count when specified object(s) enters restricted area Zone with Dwell / Parking Violation Counter: Support triggering an event and count when specified object(s) enters restricted area and stays for a predefined duration of time Tripwire / Traffic Flow Counter: Support triggering an event and count when specified object(s) crosses the designed line in a predefined direction Tampering Detection: Support triggering an event when the camera is blocked, redirected, or shaken All Object Detection (AND) Counter: Support triggering an event and count when all of the specified objects show up within the set detection zone at the same time (based on AND rule) Lack of any Object Detection (NAND) Counter: Support triggering an event and count when any of the specified objects is not present within the set detection zone (based on NAND rule)	Prohibited Zone: Support triggering an event when specified object(s) enters restricted area. Zone with Dwell / Parking Violation: Support triggering an event when specified object(s) enters restricted area and stays for a predefined duration of time. Tripwire / Traffic Flow: Support triggering an event when specified object(s) crosses the designed line in a predefined direction. Tampering Detection: Support triggering an event when the camera is blocked, redirected, or shaken. All Object Detection (AND): Support triggering an event when all of the specified objects show up within the set detection zone at the same time (based on AND rule). Lack of any Object Detection (NAND): Support triggering an event when any of the specified objects is not present within the set detection zone (based on NAND rule).
Video Resolution	Support up to 4K(3840 x 2160) and 2MP(1920 x 1080) image recognition resolution	Support up to 4K(3840 x 2160) and 2MP(1920 x 1080) image recognition resolution	Support up to 4K(3840 x 2160) and 2MP(1920 x 1080) image recognition resolution
Event Trigger	Support setting trigger by specific behaviors of specified objects Support setting 8 Cold Zones to minimize false alarms and improve the accuracy	Support setting trigger by specific behaviors of specified objects Support setting 8 Cold Zones to minimize false alarms and improve the accuracy	Support setting trigger by specific behaviors of specified objects Support setting 8 Cold Zones to minimize false alarms and improve the accuracy



For 6 Series Camera



For 6 Series Camera

Product code	EDGE DENSITY	EDGE FENCE
Supported AI engines	Person and Vehicle Density Detection	Perimeter Person and Vehicle Detection
Description	To count and manage the number of people and vehicles in an area. The count results are sent to the back-end host for storage records, the counts can be reset according to predefined setting.	Suitable for outdoor security with virtual fence protection to trigger event, while supporting four groups of detection areas or detection line that can set the direction. Different trigger event output can be set for distinct detection area and line with AI recognition function. Moreover, it can filter out invalid objects and greatly reduce the false alarm rate.
Camera supported	LILIN Z6/P6 series cameras (excluding vehicle-mounted P6R37 series cameras)	LILIN Z6/P6 series cameras (excluding vehicle-mounted P6R37 series cameras)
Recognition Speed	Support object recognition speed up to 6 frames per second at 720P	Support object recognition speed up to 6 frames per second at 720P
Behavior Detection	Density Detection Counter: Supports counting the number of specified objects in the detection area, if the number exceeds the set predefined number, the event will be triggered and counted Prohibited Zone Counter: Support triggering an event and count when specified object(s) enters restricted area Zone with Dwell / Parking Violation Counter: Support triggering an event and count when specified object(s) enters restricted area and stays for a predefined duration of time Tripwire / Traffic Flow Counter: Support triggering an event and count when specified object(s) crosses the designed line in a predefined direction	Prohibited Zone: Support triggering an event when specified object(s) enters restricted area. Zone with Dwell / Parking Violation: Support triggering an event when specified object(s) enters restricted area and stays for a predefined duration of time. Tripwire / Traffic Flow: Support triggering an event when specified object(s) crosses the designed line in a predefined direction. All Object Detection (AND): Support triggering an event when all of the specified objects show up within the set detection zone at the same time (based on AND rule). Lack of any Object Detection (NAND): Support triggering an event when any of the specified objects is not present within the set detection zone (based on NAND rule).
Video Resolution	Support up to 4K(3840 x 2160) resolution for image capture, 720P resolution is used for recognition	Support up to 4K(3840 x 2160) resolution for image capture, 720P resolution is used for recognition
Event Trigger	Support setting trigger by specific behaviors of specified objects Support setting 8 Cold Zones to minimize false alarms and improve the accuracy	Support setting trigger by specific behaviors of specified objects Support setting 8 Cold Zones to minimize false alarms and improve the accuracy

Z Series

Cameras with auto-focus feature.
Built-in motorized lens for remote control.

Z7 - 4K, H.265/264, 140dB HDR

Z6 - 4K, H.265/264, 120dB HDR

Z5 - 5MP, H.265/264

Z3 - 1080P, H.265/264

Z2 - 5MP/1080P, H.265/264

ZH - 4K, H.264

ZM - 4MP, H.264

ZG - BOX Camera

ZS - 1080P, H.264

ZF - 1080P, H.264

Z7 4K H.265 Camera (AI Compatible)



Model	Z7R6482X3-P	Z7R8182X3-P	Z7R8182X2-P	Z7R8182X10-P	Z7R8082EX25	Z7R8082EX30
Resolution	4K (D & N)	4K (D & N)	4K (D & N)	4K (D & N)	4K (D & N)	4K (D & N)
Focal length	2.8~12mm	2.8~12mm	6~22mm	5 – 50mm	5.3 (WIDE) – 132.5 (TELE) mm	4.94 (WIDE) – 148.2 (TELE) mm
Aperture	F 1.6(W) - F 3.3(T)	F 1.6(W) - F 3.3(T)	F 1.6(W) - F 3.3(T)	F 2.0	F1.6(Wide) – F4.3(Tele)	F1.3(Wide) – F4.8(Tele)
Angle of view (H)	108.0° (W) - 31.5° (T)	108.0° (W) - 31.5° (T)	42.8° (W) - 18.3° (T)	41.8° (W) – 6.4° (T)	60.4°(W) – 2.9°(T)	59.8°(W) – 2.1°(T)
Pick up element	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Effective pixels	3864 × 2176	3864 × 2176	3864 × 2176	3864 × 2176	3864 × 2176	3864 × 2176
Min. illumination	Color : 0.04 Lux at F1.6 B/W : 0.008 Lux at F1.6 0 Lux with IR LED ON	Color : 0.04 Lux at F1.6 B/W : 0.008 Lux at F1.6 0 Lux with IR LED ON	Color : 0.04 Lux at F1.6 B/W : 0.008 Lux at F1.6 0 Lux with IR LED ON	Color : 0.05 Lux at F2.0 B/W : 0.01 Lux at F2.0 0 Lux with IR LED ON	Color : 0.04 lux at F1.3 B/W : 0.009 lux at F1.3	Color : 0.04 lux at F1.3 B/W : 0.009 lux at F1.3
FPS at max. resolution	30 FPS	30 FPS	30 FPS	30 FPS	30 FPS	30 FPS
Max. IR distance	30M	55M	55M	55M	100M	100M
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG
Streams	4	4	4	4	4	4
Sense up +	Supported	Supported	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported	Supported	Supported
HDR	Up to 140dB	Up to 140dB	Up to 140dB	Up to 140dB	Up to 140dB	Up to 140dB
2D WDR	-	-	-	-	-	-
IVS Advanced 2.0	-	-	-	-	-	-
IVS Advanced 2.1 (Optional)	-	-	-	-	-	-
Privacy masking	4 zones	4 zones	4 zones	4 zones	16 zones	16 zones
Digital I/O	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Event triggers	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata
IP rating / Vandal resistant rating	IP67 / IK10	IP68 / IK10	IP68 / IK10	IP68 / IK10	IP67 / IK10	IP67 / IK10
Operating temperature	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)
Power supply	DC12V ±10% (Terminal connector) / PoE (IEEE 802.3af)	DC12V ±10% (Terminal connector) / PoE (IEEE 802.3at)	DC12V ±10% (Terminal connector) / PoE+ (IEEE 802.3at)	DC12V ±10% (Terminal connector) / PoE+ (IEEE 802.3at)	DC12V ±10% (Terminal connector) / PoE+ (IEEE 802.3at)	DC12V ±10% (Terminal connector) / PoE+ (IEEE 802.3at)
Power consumption	DC12V, 9.5W / PoE, 10.6W	DC12V, 13.2W / PoE+, 14.0W	DC12V, 13.1W / PoE+, 14.9W	DC12V, 13.1W / PoE+, 14.9W	DC12V, 15.9W / PoE+, 18.3W	DC12V, 15.9W / PoE+, 18.3W
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	Two-way Audio, G.711 u-law / PCM / AAC, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, External Microphone Required
ONVIF	ONVIF Profile S&T&G	ONVIF Profile S&T&G	ONVIF Profile S&T&G	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Others	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •P-IRIS supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •P-IRIS supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •P-IRIS supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •P-IRIS supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •RS-485 supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •RS-485 supported

Z7 4K H.265 Camera (AI Compatible)



Model	Z7R8052EX25	Z7R8052EX30	Z7R8082X10-P
Resolution	5MP (D & N)	5MP (D & N)	4K (D & N)
Focal length	5.3~132.5mm	4.9~148.2mm	5~50mm
Aperture	F 1.6(W) - F 43(T)	F 1.3(W) - F 4.8(T)	F 1.6
Angle of view (H)	56.7° (W) - 3.2° (T)	57.3° (W) - 2.5° (T)	41.8° (W) - 6.4° (T)
Pick up element	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Effective pixels	2616 × 1964	3864 × 2176	3864 × 2176
Min. illumination	Color : 0.07 Lux at F1.6 B/W : 0.001 Lux at F1.6 0 Lux with IR LED ON	Color : 0.02 Lux at F1.6 B/W : 0.008 Lux at F1.6 0 Lux with IR LED ON	Color : 0.05 Lux at F1.6 B/W : 0.01 Lux at F1.6 0 Lux with IR LED ON
FPS at max. resolution	30 FPS	30 FPS	30 FPS
Max. IR distance	100M	40M	100M
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG
Streams	4	4	4
Sense up +	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported
HDR	Up to 140dB	Up to 140dB	Up to 140dB
2D WDR	-	-	-
IVS Advanced 2.0	-	-	-
IVS Advanced 2.1 (Optional)	-	-	-
Privacy masking	4 zones	4 zones	4 zones
Digital I/O	1 / 1	1 / 1	1 / 1
Event triggers	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata
IP rating / Vandal resistant rating	IP67 / IK10	IP67 / IK10	IP67 / IK10
Operating temperature	-40°C ~ +50°C (-40°F ~ 122°F)	-40°C ~ +50°C (-40°F ~ 122°F)	-40°C ~ +50°C (-40°F ~ 122°F)
Power supply	DC12V ±10% (Terminal connector) / PoE s(IEEE 802.3at)	DC12V ±10% (Terminal connector) / PoE (IEEE 802.3at)	DC12V ±10% (Terminal connector) / PoE (IEEE 802.3at)
Power consumption	DC12V, 15.9W / PoE+, 18.3W	DC12V, 15.9W / PoE+, 18.3W	DC12V, 18.2W / PoE+, 19.3W
Mobile phone	iOS, Android	iOS, Android	iOS, Android
Audio capability	Two-way Audio, G.711 u-law / PCM / AAC, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, External Microphone Required
ONVIF	ONVIF Profile S&T&G	ONVIF Profile S&T&G	ONVIF Profile S&T&G
Others	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •P-IRIS supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •P-IRIS supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •P-IRIS supported

Z6 4K H.265 Camera (AI Compatible)



Model	Z6R6482X3	Z6R8982X3	Z6R8982AX3
Resolution	4K (D & N)	4K (D & N)	4K (D & N)
Focal length	2.8~12mm	2.8~12mm	2.8~12mm
Aperture	F1.6	F1.6	F1.6
Angle of view (H)	110.8° (W) - 32.8° (T)	110.8° (W) - 32.8° (T)	110.8° (W) - 32.8° (T)
Pick up element	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Effective pixels	3864 × 2176	3864 × 2176	3864 × 2176
Min. illumination	Color : 0.08 Lux at F1.6 B/W : 0.01 Lux at F1.6 0 Lux with IR LED ON	Color : 0.08 Lux at F1.6 B/W : 0.01 Lux at F1.6 0 Lux with IR LED ON	Color : 0.08 Lux at F1.6 B/W : 0.01 Lux at F1.6 0 Lux with IR LED ON
FPS at max. resolution	30 FPS	30 FPS	30 FPS
Max. IR distance	30M	35M(Beam Spread: 60°, 90°)	35M(Beam Spread: 30°, 60°)
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG
Streams	3	3	3
Sense up +	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported
HDR	Up to 140dB	Up to 140dB	Up to 140dB
2D WDR	Supported	Supported	Supported
IVS Advanced 2.0	-	-	-
IVS Advanced 2.1 (Optional)	-	-	-
Privacy masking	4 zones	4 zones	4 zones
Digital I/O	1 / 1	1 / 1	1 / 1
Event triggers	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata
IP rating / Vandal resistant rating	IP67 / IK10	IP67 / IK10	IP67 / IK10
Operating temperature	-30°C – +50°C (-22°F – 122°F)	-30°C – +50°C (-22°F – 122°F)	-30°C – +50°C (-22°F – 122°F)
Power supply	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC12V, 9.1W / PoE, 10.3W	DC12V, 8.7W / PoE, 10.1W	DC12V, 8.7W / PoE, 10.1W
Mobile phone	iOS, Android	iOS, Android	iOS, Android
Audio capability	Two-way Audio, G.711 u-law / PCM / AAC, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, External Microphone Required
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Others	•Micro SD / SDHC / SDXC card •Defog Function	•Micro SD / SDHC / SDXC card •Defog Function	•Micro SD / SDHC / SDXC card •Defog Function

Z5 5MP H.265 Camera



Model	Z5R6452X	Z5R6452X3	Z5R6552X	Z5R8852X
Resolution	5MP (D & N)	5MP (D & N)	5MP (D & N)	5MP (D & N)
Focal length	2.8 – 8 mm	2.8 – 12 mm	2.8 – 8 mm	2.8 – 8 mm
Aperture	F1.6	F 1.6(W) - F 3.3(T)	F1.6	F1.6
Angle of view (H)	104.2° (W) – 51.9° (T)	90.4° (W) – 29.8° (T)	90.6° (W) – 53.3° (T)	97.2° (W) – 52.5° (T)
Pick up element	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS
Effective pixels	2608 X 1960	2608 X 1960	2608 X 1960	2608 X 1960
Min. illumination	Color : 0.04 Lux at F1.6 B/W : 0.006 Lux at F1.6 0 Lux with IR LED ON	Color : 0.05 Lux at F1.6 B/W : 0.01 Lux at F1.6 0 Lux with IR LED ON	Color : 0.05 Lux at F1.6 B/W : 0.007 Lux at F1.6 0 Lux with IR LED ON	Color : 0.04 Lux at F1.6 B/W : 0.006 Lux at F1.6 0 Lux with IR LED ON
FPS at max. resolution	20 FPS	20 FPS	20 FPS	20FPS
Max. IR distance	30M	30M	30M	35M
Compression	H.265/HEVC Main Profile, H.264 Main Profile , Motion JPEG	H.265/HEVC Main Profile, H.264 Main Profile , Motion JPEG	H.265/HEVC Main Profile, H.264 Main Profile , Motion JPEG	H.265/HEVC Main Profile, H.264 Main Profile , Motion JPEG
Streams	3	3	3	3
Sense up +	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported
2D WDR	Supported	Supported	Supported	Supported
DWDR	Up to 70dB	Up to 70dB	Up to 70dB	Up to 70dB
IVS Advanced 2.0	-	-	-	-
IVS Advanced 2.1 (Optional)	-	-	-	-
Privacy masking	4 zones	4 zones	4 zones	4 zones
Digital I/O	1 / 1	1 / 1	- / -	1 / 1
Event triggers	Motion / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata
IP rating / Vandal resistant rating	IP67 / IK10	IP67 / IK10	IP67 / IK10	IP67 / IK10
Operating temperature	-30°C – +50°C (-22°F – 122°F)	-30°C – +50°C (-22°F – 122°F)	-30°C – +50°C (-22°F – 122°F)	-30°C – +50°C (-22°F – 122°F)
Power supply	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC12V, 7.5W / PoE, 10W	DC12V, 7.5W / PoE, 10W	DC12V, 7.4W / PoE, 10.0W	DC12V, 7.5W / PoE, 10.0W
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	-	-	-	-
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Others	•Micro SD / SDHC / SDXC card	•Micro SD / SDHC / SDXC card		•Micro SD / SDHC / SDXC card

Z5 5MP/1080P H.265 Camera



Model	Z5R8952X3	Z5R6422X3	Z5R6522X	Z5R8922X3
Resolution	5MP (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)
Focal length	2.8 – 12 mm	2.8 – 12 mm	2.8 – 8 mm	2.8 – 12 mm
Aperture	F 1.6(W) - F 3.3(T)	F 1.8(W) - F 3.3(T)	F1.6	F 1.8(W) - F 3.3(T)
Angle of view (H)	90.4° (W) – 29.8° (T)	105.9° (W) – 36.5° (T)	96.0° (W) – 59.0° (T)	104.0° (W) – 36.6° (T)
Pick up element	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS
Effective pixels	2608 X 1960	1932 X 1092	1932 X 1092	1932 X 1092
Min. illumination	Color : 0.05 Lux at F1.6 B/W : 0.01 Lux at F1.6 0 Lux with IR LED ON	Color : 0.01 Lux at F1.8 B/W : 0.001 Lux at F1.8 0 Lux with IR LED ON	Color : 0.01 Lux at F1.6 B/W : 0.002 Lux at F1.6 0 Lux with IR LED ON	Color : 0.01 Lux at F1.8 B/W : 0.001 Lux at F1.8 0 Lux with IR LED ON
FPS at max. resolution	20 FPS	30 FPS	30 FPS	30 FPS
Max. IR distance	35M	30M	30M	35M
Compression	H.265/HEVC Main Profile, H.264 Main Profile , Motion JPEG	H.265/HEVC Main Profile, H.264 Main Profile , Motion JPEG	H.265/HEVC Main Profile, H.264 Main Profile , Motion JPEG	H.265/HEVC Main Profile, H.264 Main Profile , Motion JPEG
Streams	3	3	3	3
Sense up +	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported
2D WDR	Supported	Supported	Supported	Supported
DWDR	Up to 70dB	Up to 70dB	Up to 70dB	Up to 70dB
IVS Advanced 2.0	-	-	-	-
IVS Advanced 2.1 (Optional)	-	-	-	-
Privacy masking	4 zones	4 zones	4 zones	4 zones
Digital I/O	1 / 1	1 / 1	- / -	1 / 1
Event triggers	Motion / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata
IP rating / Vandal resistant rating	IP68 / IK10	IP67 / IK10	IP67 / IK10	IP67 / IK10
Operating temperature	-30°C – +50°C (-22°F – 122°F)	-30°C – +50°C (-22°F – 122°F)	-30°C – +50°C (-22°F – 122°F)	-30°C – +50°C (-22°F – 122°F)
Power supply	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC12V, 7.7W / PoE, 10.0W	DC12V, 7.4W / PoE, 9.6W	DC12V, 6.8W / PoE, 9.1W	DC12V, 7.7W / PoE, 10.0W
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	-	-	-	-
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Others	•Micro SD / SDHC / SDXC card	•Micro SD / SDHC / SDXC card		•Micro SD / SDHC / SDXC card

Z3 1080P H.265 Camera



Model	Z3R6422AX3	Z3R6422X3	Z3R6522X	Z3R8922AX3	Z3R8922X3
Resolution	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)
Focal length	2.8 – 12 mm	2.8 – 12 mm	2.8 – 8 mm	2.8 – 12 mm	2.8 – 12 mm
Aperture	F 1.8(W) - F 3.3(T)	F 1.8(W) - F 3.3(T)	F1.6	F 1.8(W) - F 3.3(T)	F 1.8(W) - F 3.3(T)
Angle of view (H)	101.5° (W) – 39.0° (T)	101.5° (W) – 39.0° (T)	95.1° (W) – 57.9° (T)	104.2° (W) – 39.0° (T)	104.2° (W) – 39.0° (T)
Pick up element	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Effective pixels	1945 × 1097	1945 × 1097	1945 × 1097	1945 × 1097	1945 × 1097
Min. illumination	Color : 0.01 Lux at F1.8 B/W : 0.002 Lux at F1.8 0 Lux with IR LED ON	Color : 0.01 Lux at F1.8 B/W : 0.002 Lux at F1.8 0 Lux with IR LED ON	Color : 0.02 Lux at F1.6 B/W : 0.003 Lux at F1.6 0 Lux with IR LED ON	Color : 0.02 Lux at F1.8 B/W : 0.002 Lux at F1.8 0 Lux with IR LED ON	Color : 0.02 Lux at F1.8 B/W : 0.002 Lux at F1.8 0 Lux with IR LED ON
FPS at max. resolution	30 FPS	30 FPS	30 FPS	30 FPS	30 FPS
Max. IR distance	30M	30M	30M	35M	35M
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG
Streams	4	4	4	4	4
Sense up +	Supported	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported	Supported
HDR	Up to 120dB	Up to 120dB	Up to 120dB	Up to 120dB	Up to 120dB
2D WDR	Supported	Supported	Supported	Supported	Supported
IVS Advanced 2.0	-	-	-	-	-
IVS Advanced 2.1 (Optional)	Unattended Object Detection, Missing Object Detection, Crowd Detection, Loitering Detection, Face Detection				
Privacy masking	4 zones	4 zones	4 zones	4 zones	4 zones
Digital I/O	1 / 1	1 / 1	/	1 / 1	1 / 1
Event triggers	Motion / Tamper / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Network lost detection / SmartEvent	Motion / Tamper / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Alarm / Network lost detection / SmartEvent
IP rating / Vandal resistant rating	IP67 / IK10	IP67 / IK10	IP67 / IK10	IP67 / IK10	IP67 / IK10
Operating temperature	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)
Power supply	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC12V, 6.9W / PoE, 8.0W	DC12V, 6.6W / PoE, 7.7W	DC12V, 6.3W / PoE, 8.1W	DC12V, 6.1W / PoE, 7.4W	DC12V, 5.7W / PoE, 6.8W
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required	-	-	Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required	-
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Others	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported

Z2 5MP/1080P H.265 Camera



Model	Z2R8122X2-P	Z2R8822AX	Z2R6422AX-P	Z2R6422AX	Z2R6522X
Resolution	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)
Focal length	7.0 – 22 mm	2.8 – 8 mm	2.8 – 12 mm	2.8 – 8 mm	2.8 – 8 mm
Aperture	F1.8(W) – F2.8(T)	F1.6	F1.4 (W) – F2.8 (T)	F1.6	F1.6
Angle of view (H)	36.0° (W) – 16.0° (T)	108.1° (W) – 56.7° (T)	93.1° (W) – 31.4° (T)	108.1° (W) – 56.7° (T)	108.1° (W) – 56.7° (T)
Pick up element	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Effective pixels	1945 × 1097	1945 × 1097	1945 × 1097	1945 × 1097	1945 × 1097
Min. illumination	Color : 0.007 Lux at F1.8 B/W : 0.003 Lux at F1.8 0 Lux with IR LED ON	Color : 0.007 Lux at F1.6 B/W : 0.002 Lux at F1.6 0 Lux with IR LED ON	Color : 0.003 Lux at F1.4 B/W : 0.001 Lux at F1.4 0 Lux with IR LED ON	Color : 0.007 Lux at F1.6 B/W : 0.002 Lux at F1.6 0 Lux with IR LED ON	Color : 0.007 Lux at F1.6 B/W : 0.002 Lux at F1.6 0 Lux with IR LED ON
FPS at max. resolution	60 FPS	60 FPS	60 FPS	60 FPS	60 FPS
Max. IR distance	55M	35M	30M	30M	30M
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG
Streams	4	4	4	4	4
Sense up +	Supported	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported	Supported
HDR	Up to 120dB	Up to 120dB	Up to 120dB	Up to 120dB	Up to 120dB
2D WDR	Supported	Supported	Supported	Supported	Supported
IVS Advanced 2.0	-	-	-	-	-
IVS Advanced 2.1 (Optional)	Unattended Object Detection, Missing Object Detection, Crowd Detection, Loitering Detection, Face Detection				
Privacy masking	4 zones	4 zones	4 zones	4 zones	4 zones
Digital I/O	1 / 1	1 / 1	1 / 1	1 / 1	/
Event triggers	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Network lost detection / SmartEvent
IP rating / Vandal resistant rating	IP68 / IK10	IP67 / IK10	IP67 / IK10	IP67 / IK10	IP67 / IK10
Operating temperature	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)
Power supply	DC12V ±10% (Terminal connector) / PoE+ (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC12V, 12.5W / PoE+, 14.5W	DC12V, 6.9W / PoE, 9.2W	DC12V, 7.5W / PoE, 9W	DC12V, 7.5W / PoE, 9W	DC12V, 7.5W / PoE, 9.8W
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required	-
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Others	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •P-IRIS supported •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •P-IRIS supported •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •LDC supported

Z2 5MP/1080P H.265 Camera



Model	Z2R6552X	Z2R6452AX	Z2R6452AX-P
Resolution	5MP (D & N)	5MP (D & N)	5MP (D & N)
Focal length	2.8 – 8 mm	2.8 – 8 mm	2.8 – 12 mm
Aperture	F1.6	F1.6	F1.4 (W) – F2.8 (T)
Angle of view (H)	95.3° (W) – 51.8°(T)	95.3° (W) – 51.8°(T)	87° (W) – 30°(T)
Pick up element	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Effective pixels	2616 × 1964	2616 × 1964	2616 × 1964
Min. illumination	Color : 0.01 Lux at F1.6 B/W : 0.005 Lux at F1.6 0 Lux with IR LED ON	Color : 0.01 Lux at F1.6 B/W : 0.005 Lux at F1.6 0 Lux with IR LED ON	Color : 0.01 Lux at F1.4 B/W : 0.005 Lux at F1.4 0 Lux with IR LED ON
FPS at max. resolution	25 FPS	25 FPS	25 FPS
Max. IR distance	30M	30M	30M
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG
Streams	4	4	4
Sense up +	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported
HDR	Up to 120dB	Up to 120dB	Up to 120dB
2D WDR	Supported	Supported	Supported
IVS Advanced 2.1 (Optional)	Unattended Object Detection, Missing Object Detection, Crowd Detection, Loitering Detection, Face Detection		
Privacy masking	4 zones	4 zones	4 zones
Digital I/O	/	1 / 1	1 / 1
Event triggers	Motion / Tamper / Network lost detection / SmartEvent	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent
IP rating / Vandal resistant rating	IP67 / IK10	IP67 / IK10	IP67 / IK10
Operating temperature	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)
Power supply	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC12V, 7.5W / PoE, 9.8W	DC12V, 7.5W / PoE, 9W	DC12V, 7.5W / PoE, 9W
Mobile phone	iOS, Android	iOS, Android	iOS, Android
Audio capability	-	Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Others	•Digital zoom & ePTZ •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •P-IRIS supported •LDC supported

Z2 5MP/1080P H.265 Camera



Model	Z2R8022EX25	Z2R8122X-P
Resolution	1080P (D & N)	1080P (D & N)
Focal length	5.3 – 130 mm	2.8 – 12 mm
Aperture	F1.6(W) – F4.3(T)	F1.4 (W) – F2.8 (T)
Angle of view (H)	58.5° (W) – 2.8° (T)	98.0° (W) – 33.0° (T)
Pick up element	1/2.8" CMOS	1/2.8" CMOS
Effective pixels	1945 × 1097	1945 × 1097
Min. illumination	Color : 0.02 Lux at F1.5 B/W : 0.005 Lux at F1.5 0 Lux with IR LED ON	Color : 0.003 Lux at F1.4 B/W : 0.001 Lux at F1.4 0 Lux with IR LED ON
FPS at max. resolution	60 FPS	60 FPS
Max. IR distance	100M	55M
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG
Streams	4	4
Sense up +	Supported	Supported
3D noise reduction	Supported	Supported
HDR	Up to 120dB	Up to 120dB
2D WDR	Supported	Supported
IVS Advanced 2.1 (Optional)		
Privacy masking	4 zones	4 zones
Digital I/O	1 / 1	1 / 1
Event triggers	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent
IP rating / Vandal resistant rating	IP67 / IK10	IP68 / IK10
Operating temperature	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)
Power supply	DC12V ±10% / PoE+ (IEEE 802.3at)	DC12V ±10% (Terminal connector) / PoE+ (IEEE 802.3at)
Power consumption	DC12V, 12W / PoE+, 14W	DC12V, 12.5W / PoE+, 14.5W
Mobile phone	iOS, Android	iOS, Android
Audio capability	Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required
ONVIF	ONVIF Profile S	ONVIF Profile S
Others	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •RS-485 supported •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •P-IRIS supported •LDC supported

Z2 5MP/1080P H.265 Camera



Model	Z2R8852AX	Z2R8152X-P	Z2R8152X2-P	Z2R8052EX25
Resolution	1080P (D & N)	1080P (D & N)	1080P (D & N)	5MP (D & N)
Focal length	2.8 – 8 mm	2.8 – 12 mm	7.0 – 22 mm	5.3 – 130 mm
Aperture	F1.6	F1.4 (W) – F2.8 (T)	F1.8(W) – F2.8(T)	F1.6(W) – F4.3(T)
Angle of view (H)	108.1° (W) – 56.7° (T)	98.0° (W) – 33.0° (T)	36.0° (W) – 16.0° (T)	58.5° (W) – 2.8° (T)
Pick up element	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Effective pixels	1945 × 1097	1945 × 1097	1945 × 1097	2616 × 1964
Min. illumination	Color : 0.007 Lux at F1.6 B/W : 0.002 Lux at F1.6 0 Lux with IR LED ON	Color : 0.003 Lux at F1.4 B/W : 0.001 Lux at F1.4 0 Lux with IR LED ON	Color : 0.007 Lux at F1.8 B/W : 0.003 Lux at F1.8 0 Lux with IR LED ON	Color : 0.1 Lux at F1.6 B/W : 0.02 Lux at F1.6 0 Lux with IR LED ON
FPS at max. resolution	60 FPS	60 FPS	60 FPS	25 FPS
Max. IR distance	35M	55M	55M	100M
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG
Streams	4	4	4	4
Sense up +	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported
HDR	Up to 120dB	Up to 120dB	Up to 120dB	Up to 120dB
2D WDR	Supported	Supported	Supported	Supported
	-			
IVS Advanced 2.1 (Optional)	Unattended Object Detection, Missing Object Detection, Crowd Detection, Loitering Detection, Face Detection			
Privacy masking	4 zones	4 zones	4 zones	4 zones
Digital I/O	1 / 1	1 / 1	1 / 1	1 / 1
Event triggers	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent
IP rating / Vandal resistant rating	IP67 / IK10	IP68 / IK10	IP68 / IK10	IP67 / IK10
Operating temperature	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)
Power supply	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% (Terminal connector) / PoE+ (IEEE 802.3at)	DC12V ±10% (Terminal connector) / PoE+ (IEEE 802.3at)	DC12V ±10% / PoE+ (IEEE 802.3at)
Power consumption	DC12V, 6.9W / PoE, 9.2W	DC12V, 12.5W / PoE+, 14.5W	DC12V, 12.5W / PoE+, 14.5W	DC12V, 12W / PoE+, 14W
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required
ONVIF	ONVIF Profile S, T, G	ONVIF Profile S	ONVIF Profile S, T, G	ONVIF Profile S, T, G
Others	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •P-IRIS supported •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •P-IRIS supported •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •RS-485 supported •LDC supported

P Series

Cameras with fixed lens.
Amazing optical quality in every aspect.

P6 - 4K, H.265

P5 - 5MP, H.265, 20/30fps

P3 - 1080P, H.265, 30fps

P2 - 5MP/1080P, H.265, 60fps

P6 4K H.265 Camera (AI Compatible)



Model	P6R6382E2	P6R8882E2	P6R3782E2 / P6R3782E4
Resolution	4K (D & N)	4K (D & N)	4K (D & N)
Focal length	2.8mm	2.8mm	2.8mm / 4mm
Aperture	F1.6	F1.6	F1.6
Angle of view (H)	107.7°	107.7°	105.5°
Pick up element	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Effective pixels	3864 × 2176	3864 × 2176	3864 × 2176
Min. illumination	Color : 0.07 Lux at F1.6 B/W : 0.01 Lux at F1.6 0 Lux with IR LED ON	Color : 0.07 Lux at F1.6 B/W : 0.01 Lux at F1.6 0 Lux with IR LED ON	Color : 0.09 Lux at F1.6 B/W : 0.02 Lux at F1.6 0 Lux with IR LED ON
FPS at max. resolution	30 FPS	30 FPS	30 FPS
Max. IR distance	30M	35M	15M
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG
Streams	3	3	3
Sense up +	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported
HDR	Up to 140dB	Up to 140dB	Up to 140dB
2D WDR	Supported	Supported	Supported
IVS Advanced 2.0	-	-	-
IVS Advanced 2.1 (Optional)	-	-	-
Privacy masking	4 zones	4 zones	4 zones
Digital I/O	1 / 1	1 / 1	1 / 1
Event triggers	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata
IP rating / Vandal resistant rating	IP67 / IK10	IP67 / IK10	IP67 / IK10
Operating temperature	-30°C – +50°C (-22°F – 122°F)	-30°C – +50°C (-22°F – 122°F)	-30°C – +50°C (-22°F – 122°F)
Power supply	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC12V, 7.5W / PoE, 8.5W	DC12V, 8.2W / PoE, 9.1W	PoE, 10W
Mobile phone	iOS, Android	iOS, Android	iOS, Android
Audio capability	Two-way Audio, G.711 u-law / PCM / AAC, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, External Microphone Required	One-way Audio, G.711 u-law / AAC, Built-in Microphone
ONVIF	ONVIF Profile S, T, G	ONVIF Profile S, T, G	ONVIF Profile S, T, G

P6 4K H.265 Camera



EN50155



EN50155



EN50155



EN50155

Model	P6R3782AE2	P6R3782AE4	P6R3782BE2	P6R3782BE4
Resolution	4K (D & N)	4K (D & N)	4K (D & N)	4K (D & N)
Focal length	2.8mm	4mm	2.8mm	4mm
Aperture	F1.6	F1.6	F1.6	F1.6
Angle of view (H)	105.5°	86.1°	105.5°	86.1°
Pick up element	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Effective pixels	3864 × 2176	3864 × 2176	3864 × 2176	3864 × 2176
Min. illumination	Color : 0.09 Lux at F1.6 B/W : 0.02 Lux at F1.6 0 Lux with IR LED ON	Color : 0.09 Lux at F1.6 B/W : 0.02 Lux at F1.6 0 Lux with IR LED ON	Color : 0.09 Lux at F1.6 B/W : 0.02 Lux at F1.6 0 Lux with IR LED ON	Color : 0.09 Lux at F1.6 B/W : 0.02 Lux at F1.6 0 Lux with IR LED ON
FPS at max. resolution	30 FPS	30 FPS	30 FPS	30 FPS
Max. IR distance	15M	15M	15M	15M
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG
Streams	3	3	3	3
Sense up +	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported
HDR	Up to 140dB	Up to 140dB	Up to 140dB	Up to 140dB
2D WDR	Supported	Supported	Supported	Supported
IVS Advanced 2.0	-	-	-	-
IVS Advanced 2.1 (Optional)	-	-	-	-
Privacy masking	4 zones	4 zones	4 zones	4 zones
Digital I/O	1 / 1	1 / 1	1 / 1	1 / 1
Event triggers	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata
IP rating / Vandal resistant rating	IP67 / IK10	IP6K9K / IK10	IP67 / IK10	IP6K9K / IK10
Operating temperature	-30°C ~ +50°C (-22°F ~ 122°F)	-30°C ~ +50°C (-22°F ~ 122°F)	-30°C ~ +50°C (-22°F ~ 122°F)	-30°C ~ +50°C (-22°F ~ 122°F)
Power supply	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC 12V, 7.4W / PoE, 10W	DC 12V, 7.4W / PoE, 10W	DC 12V, 7.4W / PoE, 10W	DC 12V, 7.4W / PoE, 10W
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	One-way Audio, G.711 u-law / AAC, Built-in Microphone	One-way Audio, G.711 u-law / AAC, Built-in Microphone	–	–
ONVIF	ONVIF Profile S, T, G	ONVIF Profile S, T, G	ONVIF Profile S, T, G	ONVIF Profile S, T, G

P6 4K H.265 Camera



EN50155



EN50155



EN50155



EN50155

Model	P6R3780AE2	P6R3780AE4	P6R3780BE2	P6R3780BE4
Resolution	4K (D & N)	4K (D & N)	4K (D & N)	4K (D & N)
Focal length	2.8mm	4mm	2.8mm	4mm
Aperture	F1.6	F1.6	F1.6	F1.6
Angle of view (H)	105.5°	86.1°	105.5°	86.1°
Pick up element	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Effective pixels	3864 × 2176	3864 × 2176	3864 × 2176	3864 × 2176
Min. illumination	Color : 0.09 Lux at F1.6 B/W : 0.02 Lux at F1.6 0 Lux with IR LED ON	Color : 0.09 Lux at F1.6 B/W : 0.02 Lux at F1.6 0 Lux with IR LED ON	Color : 0.09 Lux at F1.6 B/W : 0.02 Lux at F1.6 0 Lux with IR LED ON	Color : 0.09 Lux at F1.6 B/W : 0.02 Lux at F1.6 0 Lux with IR LED ON
FPS at max. resolution	30 FPS	30 FPS	30 FPS	30 FPS
Max. IR distance	15M	15M	15M	15M
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG
Streams	3	3	3	3
Sense up +	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported
HDR	Up to 140dB	Up to 140dB	Up to 140dB	Up to 140dB
2D WDR	Supported	Supported	Supported	Supported
IVS Advanced 2.0	-	-	-	-
IVS Advanced 2.1 (Optional)	-	-	-	-
Privacy masking	4 zones	4 zones	4 zones	4 zones
Digital I/O	1 / 1	1 / 1	1 / 1	1 / 1
Event triggers	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Tamper / Audio / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata
IP rating / Vandal resistant rating	IP67 / IK10	IP6K9K / IK10	IP67 / IK10	IP6K9K / IK10
Operating temperature	-30°C ~ +50°C (-22°F ~ 122°F)	-30°C ~ +50°C (-22°F ~ 122°F)	-30°C ~ +50°C (-22°F ~ 122°F)	-30°C ~ +50°C (-22°F ~ 122°F)
Power supply	PoE (IEEE 802.3af)	PoE (IEEE 802.3af)	PoE (IEEE 802.3af)	PoE (IEEE 802.3af)
Power consumption	PoE, 10W (M12)	PoE, 10W (M12)	PoE, 10W (M12)	PoE, 10W (M12)
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	One-way Audio, G.711 u-law / AAC, Built-in Microphone	One-way Audio, G.711 u-law / AAC, Built-in Microphone	--	--
ONVIF	ONVIF Profile S, T, G	ONVIF Profile S, T, G	ONVIF Profile S, T, G	ONVIF Profile S, T, G

P5 5MP H.265 Camera



Model	P5R6352E2	P5R6552E2	P5R8852E2	P5R6322E2	P5R6522E2	P5R8822E2
Resolution	5MP (D & N)	5MP (D & N)	5MP (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)
Focal length	2.8mm	2.8mm	2.8mm	2.8mm	2.8mm	2.8mm
Aperture	F2.0	F2.0	F2.0	F2.0	F2.0	F2.0
Angle of view (H)	98.0°	100.4°	106.6°	107.4°	112.4°	118.6°
Pick up element	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS
Effective pixels	2608 X 1960	2608 X 1960	2608 X 1960	1932 X 1092	1932 X 1092	1932 X 1092
Min. illumination	Color : 0.04 Lux at F2.0 B/W : 0.006 Lux at F2.0 0 Lux with IR LED ON	Color : 0.04 Lux at F2.0 B/W : 0.006 Lux at F2.0 0 Lux with IR LED ON	Color : 0.04 Lux at F2.0 B/W : 0.005 Lux at F2.0 0 Lux with IR LED ON	Color : 0.01 Lux at F2.0 B/W : 0.002 Lux at F2.0 0 Lux with IR LED ON	Color : 0.01 Lux at F2.0 B/W : 0.002 Lux at F2.0 0 Lux with IR LED ON	Color : 0.01 Lux at F2.0 B/W : 0.002 Lux at F2.0 0 Lux with IR LED ON
FPS at max. resolution	20 FPS	20 FPS	20 FPS	30 FPS	30 FPS	30 FPS
Max. IR distance	30M	30M	35M	30M	30M	35M
Compression	H.265/HEVC Main Profile, H.264 Main Profile, Motion JPEG	H.265/HEVC Main Profile, H.264 Main Profile, Motion JPEG	H.265/HEVC Main Profile, H.264 Main Profile, Motion JPEG	H.265/HEVC Main Profile, H.264 Main Profile, Motion JPEG	H.265/HEVC Main Profile, H.264 Main Profile, Motion JPEG	H.265/HEVC Main Profile, H.264 Main Profile, Motion JPEG
Streams	3	3	3	3	3	3
Sense up +	Supported	Supported	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported	Supported	Supported
DWDR	Up to 70dB	Up to 70dB	Up to 70dB	Up to 70dB	Up to 70dB	Up to 70dB
2D WDR	Supported	Supported	Supported	Supported	Supported	Supported
IVS Advanced 2.0	-	-	-	-	-	-
IVS Advanced 2.1 (Optional)	-	-	-	-	-	-
Privacy masking	4 zones	4 zones	4 zones	4 zones	4 zones	4 zones
Digital I/O	1 / 1	- / -	1 / 1	1 / 1	- / -	1 / 1
Event triggers	Motion / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Network lost detection / Global Counter / Virtual Input / Metadata	Motion / Alarm / Network lost detection / Global Counter / Virtual Input / Metadata
IP rating / Vandal resistant rating	IP67 / IK10	IP67 / IK10	IP67 / IK10	IP67 / IK10	IP67 / IK10	IP67 / IK10
Operating temperature	-30°C – +50°C (-22°F – 122°F)	-30°C – +50°C (-22°F – 122°F)	-30°C – +50°C (-22°F – 122°F)	-30°C – +50°C (-22°F – 122°F)	-30°C – +50°C (-22°F – 122°F)	-30°C – +50°C (-22°F – 122°F)
Power supply	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC12V, 6.7W / PoE, 8.5W	DC12V, 6.7W / PoE, 8.7W	DC12V, 6.8W / PoE, 9.1W	DC12V, 6.4W / PoE, 8.0W	DC12V, 6.6W / PoE, 8.5W	DC12V, 6.8W / PoE, 8.7W
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	-	-	-	-	-	-
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Others	•Micro SD / SDHC / SDXC card		•Micro SD / SDHC / SDXC card	•Micro SD / SDHC / SDXC card		•Micro SD / SDHC / SDXC card

P3 1080P H.265 Camera



Model	P3R6322AE2	P3R6322E2	P3R6522E2	P3R8822AE2	P3R8822E2
Resolution	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)
Focal length	2.8mm	2.8mm	2.8mm	2.8mm	2.8mm
Aperture	F2.0	F2.0	F2.0	F2.0	F2.0
Angle of view (H)	103.7°	103.7°	103.1°	104.1°	104.1°
Pick up element	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Effective pixels	1945 × 1097	1945 × 1097	1945 × 1097	1945 × 1097	1945 × 1097
Min. illumination	Color : 0.02 Lux at F2.0 B/W : 0.003 Lux at F2.0 0 Lux with IR LED ON	Color : 0.02 Lux at F2.0 B/W : 0.003 Lux at F2.0 0 Lux with IR LED ON	Color : 0.01 Lux at F2.0 B/W : 0.002 Lux at F2.0 0 Lux with IR LED ON	Color : 0.02 Lux at F2.0 B/W : 0.004 Lux at F2.0 0 Lux with IR LED ON	Color : 0.02 Lux at F2.0 B/W : 0.003 Lux at F2.0 0 Lux with IR LED ON
FPS at max. resolution	30 FPS	30 FPS	30 FPS	30 FPS	30 FPS
Max. IR distance	30M	30M	30M	35M	35M
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG
Streams	4	4	4	4	4
Sense up +	Supported	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported	Supported
HDR	Up to 120dB	Up to 120dB	Up to 120dB	Up to 120dB	Up to 120dB
2D WDR	Supported	Supported	Supported	Supported	Supported
IVS Advanced 2.0	-	-	-	-	-
IVS Advanced 2.1 (Optional)	Unattended Object Detection, Missing Object Detection, Crowd Detection, Loitering Detection, Face Detection				
Privacy masking	4 zones	4 zones	4 zones	4 zones	4 zones
Digital I/O	1 / 1	1 / 1	- / -	1 / 1	1 / 1
Event triggers	Motion / Tamper / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Network lost detection / SmartEvent	Motion / Tamper / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Alarm / Network lost detection / SmartEvent
IP rating / Vandal resistant rating	IP67 / IK10	IP67 / IK10	IP67 / IK10	IP67 / IK10	IP67 / IK10
Operating temperature	-40°C ~ +50°C (-40°F ~ 122°F)	-40°C ~ +50°C (-40°F ~ 122°F)	-40°C ~ +50°C (-40°F ~ 122°F)	-40°C ~ +50°C (-40°F ~ 122°F)	-40°C ~ +50°C (-40°F ~ 122°F)
Power supply	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC12V, 5.2W / PoE, 6.3W	DC12V, 5W / PoE, 5.8W	DC12V, 6.2W / PoE, 7.6W	DC12V, 5.9W / PoE, 6.9W	DC12V, 5.5W / PoE, 6.8W
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required	-	-	Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required	-
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Others	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported

P2 5MP H.265 Camera



Model	P2R8852E2	P2R8852E4	P2R6852E2	P2R6852E4	P2R6552E2	P2R6552E4
Resolution	5MP (D & N)	5MP (D & N)	5MP (D & N)	5MP (D & N)	5MP (D & N)	5MP (D & N)
Focal length	2.8mm	4mm	2.8mm	4mm	2.8mm	4mm
Aperture	F1.6	F1.6	F1.6	F1.6	F1.6	F1.6
Angle of view (H)	92.8°	76.6°	92.8°	76.6°	92.8°	76.6°
Pick up element	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Effective pixels	2616 × 1964	2616 × 1964	2616 × 1964	2616 × 1964	2616 × 1964	2616 × 1964
Min. illumination	Color : 0.01 Lux at F1.6 B/W : 0.004 Lux at F1.6 0 Lux with IR LED ON	Color : 0.01 Lux at F1.6 B/W : 0.004 Lux at F1.6 0 Lux with IR LED ON	Color : 0.01 Lux at F1.6 B/W : 0.004 Lux at F1.6 0 Lux with IR LED ON	Color : 0.01 Lux at F1.6 B/W : 0.004 Lux at F1.6 0 Lux with IR LED ON	Color : 0.01 Lux at F1.6 B/W : 0.004 Lux at F1.6 0 Lux with IR LED ON	Color : 0.01 Lux at F1.6 B/W : 0.004 Lux at F1.6 0 Lux with IR LED ON
FPS at max. resolution	25 FPS	25 FPS	25 FPS	25 FPS	25 FPS	25 FPS
Max. IR distance	35M	35M	30M	30M	30M	30M
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG
Streams	4	4	4	4	4	4
Sense up +	Supported	Supported	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported	Supported	Supported
HDR	Up to 120dB	Up to 120dB	Up to 120dB	Up to 120dB	Up to 120dB	Up to 120dB
2D WDR	Supported	Supported	Supported	Supported	Supported	Supported
IVS Advanced 2.0	-	-	-	-	-	-
IVS Advanced 2.1 (Optional)	Unattended Object Detection, Missing Object Detection, Crowd Detection, Loitering Detection, Face Detection					
Privacy masking	4 zones	4 zones	4 zones	4 zones	4 zones	4 zones
Digital I/O	/	/	/	/	/	/
Event triggers	Motion / Tamper / Network lost detection / SmartEvent	Motion / Tamper / Network lost detection / SmartEvent	Motion / Tamper / Audio / Network lost detection / SmartEvent	Motion / Tamper / Audio / Network lost detection / SmartEvent	Motion / Tamper / Network lost detection / SmartEvent	Motion / Tamper / Network lost detection / SmartEvent
IP rating / Vandal resistant rating	IP67 / IK10	IP67 / IK10	IP67 / -	IP67 / -	IP67 / IK10	IP67 / IK10
Operating temperature	-40°C ~ +50°C (-40°F ~ 122°F)	-40°C ~ +50°C (-40°F ~ 122°F)	-40°C ~ +50°C (-40°F ~ 122°F)	-40°C ~ +50°C (-40°F ~ 122°F)	-40°C ~ +50°C (-40°F ~ 122°F)	-40°C ~ +50°C (-40°F ~ 122°F)
Power supply	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC12V, 7.9W / PoE, 10.2W	DC12V, 7.9W / PoE, 10.2W	DC12V, 5.6W / PoE, 6.7W	DC12V, 5.6W / PoE, 6.7W	DC12V, 7.2W / PoE, 9.5W	DC12V, 7.2W / PoE, 9.5W
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	-	-	One-way Audio, G.711 u-law / PCM / AAC, Built-in Microphone	One-way Audio, G.711 u-law / PCM / AAC, Built-in Microphone	-	-
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Others	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •LDC supported	•Digital zoom & ePTZ •LDC supported	•Digital zoom & ePTZ •LDC supported	•Digital zoom & ePTZ •LDC supported

P2 5MP&1080P H.265 Camera



Model	P2R6352AE2	P2R6352AE4	P2R3052AE2	P2G1052	P2R8822E2	P2R8822E4
Resolution	5MP (D & N)	5MP (D & N)	5MP (D & N)	5MP (D & N)	1080P (D & N)	1080P (D & N)
Focal length	2.8mm	4mm	2.8mm	-	2.8mm	4mm
Aperture	F1.6	F1.6	F1.6	-	F1.6	F1.6
Angle of view (H)	92.8°	76.6°	92.8°	-	104.4°	91.0°
Pick up element	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Effective pixels	2616 × 1964	2616 × 1964	2616 × 1964	2616 × 1964	1945 × 1097	1945 × 1097
Min. illumination	Color : 0.01 Lux at F1.6 B/W : 0.004 Lux at F1.6 0 Lux with IR LED ON	Color : 0.01 Lux at F1.6 B/W : 0.004 Lux at F1.6 0 Lux with IR LED ON	Color : 0.01 Lux at F1.6 B/W : 0.004 Lux at F1.6 0 Lux with IR LED ON	Color : 0.04 Lux at F1.4 B/W : 0.01 Lux at F1.4	Color : 0.005 Lux at F1.6 B/W : 0.002 Lux at F1.6 0 Lux with IR LED ON	Color : 0.004 Lux at F1.6 B/W : 0.001 Lux at F1.6 0 Lux with IR LED ON
FPS at max. resolution	25 FPS	25 FPS	25 FPS	25 FPS	60 FPS	60 FPS
Max. IR distance	30M	30M	30M	-	35M	35M
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG
Streams	4	4	4	4	4	4
Sense up +	Supported	Supported	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported	Supported	Supported
HDR	Up to 120dB	Up to 120dB	Up to 120dB	Up to 120dB	Up to 120dB	Up to 120dB
2D WDR	Supported	Supported	Supported	Supported	Supported	Supported
IVS Advanced 2.0	-	-	-	-	-	-
IVS Advanced 2.1 (Optional)	Unattended Object Detection, Missing Object Detection, Crowd Detection, Loitering Detection, Face Detection					
Privacy masking	4 zones	4 zones	4 zones	4 zones	4 zones	4 zones
Digital I/O	1 / 1	1 / 1	1 / 1	1 / 1	- / -	- / -
Event triggers	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Network lost detection / SmartEvent	Motion / Tamper / Network lost detection / SmartEvent
IP rating / Vandal resistant rating	IP67 / IK10	IP67 / IK10	- / -	- / -	IP67 / IK10	IP67 / IK10
Operating temperature	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-20°C – +50°C (-4°F – 122°F)	-20°C – +50°C (-4°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)
Power supply	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC12V, 6W / PoE, 7.5W	DC12V, 6W / PoE, 7.5W	DC12V, 6W / PoE, 7.5W	DC12V, 5W / PoE, 6W	DC12V, 7.9W / PoE, 10.2W	DC12V, 7.9W / PoE, 10.2W
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, SIP, Built-in Microphone	Two-way Audio, G.711 u-law / PCM / AAC, SIP, Built-in Microphone	-	-
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Others	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported

P2 1080P H.265 Camera



Model	P2R6822E2	P2R6822E4	P2R6522E2	P2R6522E4
Resolution	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)
Focal length	2.8mm	4mm	2.8mm	4mm
Aperture	F1.6	F1.6	F1.6	F1.6
Angle of view (H)	104.4°	91.0°	104.4°	91.0°
Pick up element	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Effective pixels	1945 × 1097	1945 × 1097	1945 × 1097	1945 × 1097
Min. illumination	Color : 0.005 Lux at F1.6 B/W : 0.002 Lux at F1.6 0 Lux with IR LED ON	Color : 0.004 Lux at F1.6 B/W : 0.001 Lux at F1.6 0 Lux with IR LED ON	Color : 0.005 Lux at F1.6 B/W : 0.002 Lux at F1.6 0 Lux with IR LED ON	Color : 0.004 Lux at F1.6 B/W : 0.001 Lux at F1.6 0 Lux with IR LED ON
FPS at max. resolution	60 FPS	60 FPS	60 FPS	60 FPS
Max. IR distance	30M	30M	30M	30M
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG
Streams	4	4	4	4
Sense up +	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported
HDR	Up to 120dB	Up to 120dB	Up to 120dB	Up to 120dB
2D WDR	Supported	Supported	Supported	Supported
IVS Advanced 2.0	-	-	-	-
IVS Advanced 2.1 (Optional)	Unattended Object Detection, Missing Object Detection, Crowd Detection, Loitering Detection, Face Detection			
Privacy masking	4 zones	4 zones	4 zones	4 zones
Digital I/O	- / -	- / -	- / -	- / -
Event triggers	Motion / Tamper / Audio / Network lost detection / SmartEvent	Motion / Tamper / Audio / Network lost detection / SmartEvent	Motion / Tamper / Network lost detection / SmartEvent	Motion / Tamper / Network lost detection / SmartEvent
IP rating / Vandal resistant rating	IP67 / -	IP67 / -	IP67 / IK10	IP67 / IK10
Operating temperature	-40°C ~ +50°C (-40°F ~ 122°F)	-40°C ~ +50°C (-40°F ~ 122°F)	-40°C ~ +50°C (-40°F ~ 122°F)	-40°C ~ +50°C (-40°F ~ 122°F)
Power supply	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC12V, 6W / PoE, 7.5W	DC12V, 6W / PoE, 7.5W	DC12V, 7.2W / PoE, 9.5W	DC12V, 7.2W / PoE, 9.5W
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	One-way Audio, G.711 u-law / PCM / AAC, Built-in Microphone	One-way Audio, G.711 u-law / PCM / AAC, Built-in Microphone	-	-
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Others	•Digital zoom & ePTZ •LDC supported	•Digital zoom & ePTZ •LDC supported	•Digital zoom & ePTZ •LDC supported	•Digital zoom & ePTZ •LDC supported

P2 1080P H.265 Camera



Model	P2R6322AE2	P2R6322AE4	P2R3022AE2	P2G1022X	P2G1022
Resolution	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)
Focal length	2.8mm	4mm	2.8mm	2.8mm – 12mm	-
Aperture	F1.6	F1.6	F1.6	F1.4	-
Angle of view (H)	104.4°	91.0°	104.4°	102° (W) – 35.5°(T)	-
Pick up element	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS	1/2.8" CMOS
Effective pixels	1945 × 1097	1945 × 1097	1945 × 1097	1945 × 1097	1945 × 1097
Min. illumination	Color : 0.005 Lux at F1.6 B/W : 0.002 Lux at F1.6 0 Lux with IR LED ON	Color : 0.004 Lux at F1.6 B/W : 0.001 Lux at F1.6 0 Lux with IR LED ON	Color : 0.005 Lux at F1.6 B/W : 0.002 Lux at F1.6 0 Lux with IR LED ON	Color : 0.05 Lux at F1.4 B/W : 0.004 Lux at F1.4	Color : 0.05 Lux at F1.4 B/W : 0.004 Lux at F1.4
FPS at max. resolution	60 FPS	60 FPS	60 FPS	60 FPS	60 FPS
Max. IR distance	30M	30M	30M	-	-
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG
Streams	4	4	4	4	4
Sense up +	Supported	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported	Supported
HDR	Up to 120dB	Up to 120dB	Up to 120dB	Up to 120dB	Up to 120dB
2D WDR	Supported	Supported	Supported	Supported	Supported
IVS Advanced 2.0	-	-	-	-	-
IVS Advanced 2.1 (Optional)	Unattended Object Detection, Missing Object Detection, Crowd Detection, Loitering Detection, Face Detection				
Privacy masking	4 zones	4 zones	4 zones	4 zones	4 zones
Digital I/O	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
Event triggers	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent
IP rating / Vandal resistant rating	IP67 / IK10	IP67 / IK10	- / -	- / -	- / -
Operating temperature	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-20°C – +50°C (-4°F – 122°F)	-20°C – +50°C (-4°F – 122°F)	-20°C – +50°C (-4°F – 122°F)
Power supply	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC12V, 6W / PoE, 7.5W	DC12V, 6W / PoE, 7.5W	DC12V, 6W / PoE, 7.5W	DC12V, 5W / PoE, 6W	DC12V, 5W / PoE, 6W
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, SIP, External Microphone Required	Two-way Audio, G.711 u-law / PCM / AAC, SIP, Built-in Microphone	Two-way Audio, G.711 u-law / PCM / AAC, SIP, Built-in Microphone	Two-way Audio, G.711 u-law / PCM / AAC, SIP, Built-in Microphone
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Others	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported

Panoramic Series

Cameras with panoramic views.
Ultra wide angle fisheye.

Panoramic Camera



Model	F2R36C2IM	F2R3682IM
Resolution	9M (D & N)	4.7M (D & N)
Focal length	1.2mm	1.0mm
Aperture	F2.2	F2.8
Angle of view (H)	185°	185°
Pick up element	1/1.7" CMOS	1/1.8" CMOS
Effective pixels	4072 × 3046	3864 × 2180
Min. illumination	Color : 0.3 Lux at F2.2 B/W : 0.09 Lux at F2.2	Color : 0.04 Lux at F2.0 B/W : 0.009 Lux at F2.0
FPS at max. resolution	25 FPS	30 FPS
Max. IR distance	20M	20M
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG
Streams	4	4
Sense up +	Supported	Supported
3D noise reduction	Supported	Supported
2D WDR	Supported	Supported
IVS Advanced 2.0	-	-
IVS Advanced 2.1 (Optional)	-	-
Privacy masking	4 zones	4 zones
Digital I/O	1 / 1	1 / 1
Event triggers	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent	Motion / Tamper / Audio / Alarm / Network lost detection / SmartEvent
IP rating / Vandal resistant rating	IP67 / IK10	IP67 / IK10
Operating temperature	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)
Power supply	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC12V, 9.0W / PoE, 10.6W	DC12V, 5.6W / PoE, 6.8W
Mobile phone	iOS, Android	iOS, Android
Audio capability	Two-way Audio, G.711 u-law / PCM / AAC, SIP, Built-in Microphone	Two-way Audio, G.711 u-law / PCM / AAC, SIP, Built-in Microphone
ONVIF	ONVIF Profile S	ONVIF Profile S
Others	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card

Door Station

Adaptive with access control systems.

Door Station Camera



Model	IPC0522E2	IPC0522E6
Resolution	1080P (D & N)	1080P (D & N)
Focal length	2.1mm	6.0mm
Aperture	F1.8	F2.0
Angle of view (H)	129°	54.4°
Pick up element	1/2.7" CMOS	1/2.7" CMOS
Effective pixels	1920 × 1080	1920 × 1080
Min. illumination	Color : 0.5 Lux at F1.8 B/W: 0.1 Lux at F1.8 ; 0 Lux with IR LED ON	Color : 0.6 Lux at F2.0 B/W : 0.2 Lux at F2.0 ; 0 Lux with IR LED ON
FPS at max. resolution	30 FPS	30 FPS
Max. IR distance	10 M (Infrared LED) , 3 M (White LED)	3 M
Compression	H.264 main and high profile, Motion JPEG	H.264, Motion JPEG
Streams	4	4
Sense up +	Supported	Supported
3D noise reduction	Supported	Supported
HDR	-	-
2D WDR	Supported	Supported
IVS Advanced 2.0	-	-
IVS Advanced 2.1 (Optional)	-	-
Privacy masking	4 zones	4 zones
Digital I/O	2 / 1	2 / 1
Event triggers	Motion / Tamper / Audio / Alarm / Network loss / PIR detection / RING Button detection / QR code	Motion / Tamper / Audio / Alarm / Face detection / Network lost detection / PIR detection / RING Button detection
IP rating / Vandal resistant rating	IP66 / -	IP66 / -
Operating temperature	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)
Power supply	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC12V, 10.5W / PoE, 12W	DC12V, 10.5W / PoE, 12W
Mobile phone	iOS, Android	iOS, Android
Audio capability	Two-way Audio, G.711 u-law/ PCM / AAC with echo cancelation, Built-in Microphone and speaker	Two-way Audio
ONVIF	ONVIF Profile S	ONVIF Profile S
Others	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported

PTZ Series

Cameras with pan, tilt and zoom capability.
Lens zoom ratio from 3x~30x.

S7- 5MP/4K

S8- 1080P@60fps

PS- 1080P@60fps

PZ- 1080P@30fps

IP- 1080P@30fps

PTZ Camera



Model	S7R5584X25	S7R5584X30	S7R5588X25	S7R5588X30
Resolution	4K (D & N)	4K (D & N)	4K (D & N)	4K (D & N)
Lens zoom ratio	25X Optical	30X Optical	25X Optical	30X Optical
Focal length	5.3 mm – 132.5 mm	4.94 mm – 148.2 mm	5.3 mm – 132.5 mm	4.94 mm – 148.2 mm
Pick up element	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor
Effective pixels	3864 × 2192	3864 × 2192	3864 × 2192	3864 × 2192
Min. illumination	0.04 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.009 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.008 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.0009 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.02 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.005 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.004 lux (1/8 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.0005 lux (1/8 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.04 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.009 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.008 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.0009 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.02 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.005 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.004 lux (1/8 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.0005 lux (1/8 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON
Aperture range	F1.6 – 32 , Close	F1.3 – 32 , Close	F1.6 – 32 , Close	F1.3 – 32 , Close
Max. IR distance	200M	200M	200M	200M
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG		H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	
ePTZ & Digital Zoom	- / Yes (X8)	- / Yes (X8)	- / Yes (X8)	- / Yes (X8)
Sense Up	Supported	Supported	Supported	Supported
Electronic shutter speed	Supported	Supported	Supported	Supported
Digital noise reduction	Supported	Supported	Supported	Supported
High Dynamic Range	Supported (Up to 140dB)	Supported (Up to 140dB)	Supported (Up to 140dB)	Supported (Up to 140dB)
Defog	Supported	Supported	Supported	Supported
Electronic Image Stabilization	--	--	--	--
Privacy masking	16 zone	16 zone	16 zone	16 zone
Preset	256	256	256	256
Alarm I/O	4 / 2	4 / 2	4 / 2	4 / 2
Schedule setting	Supported	Supported	Supported	Supported
IP rating / Vandal resistant rating	IP66 / IK10 (Housing)	IP66 / IK10 (Housing)	IP66 / IK10 (Housing)	IP66 / IK10 (Housing)
Operating temperature	- 40°C – + 50°C (-40°F – 122°F)	- 40°C – + 50°C (-40°F – 122°F)	- 40°C – + 50°C (-40°F – 122°F)	- 40°C – + 50°C (-40°F – 122°F)
Power supply	AC24V ±10% / DC24V	AC24V ±10% / DC24V	AC100 – 240V ±10%	AC100 – 240V ±10%
Power consumption	AC24V, 32 W (Heater OFF, IR OFF) / AC24V, 53 W (Heater OFF, IR ON) AC24V, 73 W (Heater ON, IROFF) / AC24V, 90 W (Heater ON, IRON)		AC100 – 240V, 31 W (Heater OFF, IR OFF) / AC100 – 240V, 50 W (Heater OFF, IR ON) AC100 – 240V, 72 W (Heater ON, IR OFF) / AC100 – 240V, 86 W (Heater ON, IR ON)	
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio
Micro SD/SDHC card	Micro SD / SDHC / SDXC card Supported	Micro SD / SDHC / SDXC card Supported	Micro SD / SDHC / SDXC card Supported	Micro SD / SDHC / SDXC card Supported
ONVIF	ONVIF Profile S / ONVIF Profile T / ONVIF Profile G		ONVIF Profile S / ONVIF Profile T / ONVIF Profile G	

PTZ Camera



Model	S7R5554X25	S7R5554X30	S7R5558X25	S7R5558X30
Resolution	5MP (D & N)	5MP (D & N)	5MP (D & N)	5MP (D & N)
Lens zoom ratio	25X Optical	30X Optical	25X Optical	30X Optical
Focal length	5.3 mm – 132.5 mm	4.94 mm – 148.2 mm	5.3 mm – 132.5 mm	4.94 mm – 148.2 mm
Pick up element	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor
Effective pixels	2616 × 1964	2616 × 1964	2616 × 1964	2616 × 1964
Min. illumination	0.07 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.01 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.01 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.001 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.02 lux (1/30 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.008 lux (1/30 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.004 lux (1/8 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.0008 lux (1/8 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.07 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.01 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.01 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.001 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.02 lux (1/30 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.008 lux (1/30 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.004 lux (1/8 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.0008 lux (1/8 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON
Aperture range	F1.6 – 32, Close	F1.3 – 32, Close	F1.6 – 32, Close	F1.3 – 32, Close
Max. IR distance	200M	200M	200M	200M
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG		H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	
ePTZ & Digital Zoom	- / Yes (X8)	- / Yes (X8)	- / Yes (X8)	- / Yes (X8)
Sense Up	Supported	Supported	Supported	Supported
Electronic shutter speed	Supported	Supported	Supported	Supported
Digital noise reduction	Supported	Supported	Supported	Supported
High Dynamic Range	Supported (Up to 140dB)	Supported (Up to 140dB)	Supported (Up to 140dB)	Supported (Up to 140dB)
Defog	Supported	Supported	Supported	Supported
Electronic Image Stabilization	--	--	--	--
Privacy masking	16 zone	16 zone	16 zone	16 zone
Preset	256	256	256	256
Alarm I/O	4 / 2	4 / 2	4 / 2	4 / 2
Schedule setting	Supported	Supported	Supported	Supported
IP rating / Vandal resistant rating	IP66 / IK10 (Housing)	IP66 / IK10 (Housing)	IP66 / IK10 (Housing)	IP66 / IK10 (Housing)
Operating temperature	- 40°C – + 50°C (-40°F – 122°F)	- 40°C – + 50°C (-40°F – 122°F)	- 40°C – + 50°C (-40°F – 122°F)	- 40°C – + 50°C (-40°F – 122°F)
Power supply	AC24V ±10% / DC24V	AC24V ±10% / DC24V	AC100 – 240V ±10%	AC100 – 240V ±10%
Power consumption	AC24V, 32 W (Heater OFF, IR OFF) / AC24V, 53 W (Heater OFF, IR ON) AC24V, 73 W (Heater ON, IR OFF) / AC24V, 90 W (Heater ON, IR ON)		AC100 – 240V, 31 W (Heater OFF, IR OFF) / AC100 – 240V, 50 W (Heater OFF, IR ON) AC100 – 240V, 72 W (Heater ON, IR OFF) / AC100 – 240V, 86 W (Heater ON, IR ON)	
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio
Micro SD/SDHC card	Micro SD / SDHC / SDXC card Supported	Micro SD / SDHC / SDXC card Supported	Micro SD / SDHC / SDXC card Supported	Micro SD / SDHC / SDXC card Supported
ONVIF	ONVIF Profile S / ONVIF Profile T / ONVIF Profile G		ONVIF Profile S / ONVIF Profile T / ONVIF Profile G	

PTZ Camera



Model	S8R5524X25	S8R5524X30	S8R5528X25	S8R5528X30	S8D4624EX25	S8D4624EX30
Resolution	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)
Lens zoom ratio	25X Optical	30X Optical	25X Optical	30X Optical	25X Optical	30X Optical
Focal length	5.3 mm – 132.5 mm	4.94 mm – 148.2 mm	5.3 mm – 132.5 mm	4.94 mm – 148.2 mm	5.3 mm – 132.5 mm	4.94 mm – 148.2 mm
Pick up element	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor
Effective pixels	1945 × 1097	1945 × 1097	1945 × 1097	1945 × 1097	1945 × 1097	1945 × 1097
Min. illumination	0.01 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.001 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.002 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.0002 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.005 lux (1/30 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.001 lux (1/30 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.001 lux (1/8 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.0002 lux (1/8 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.01 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.001 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.002 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.0002 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.005 lux (1/30 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.001 lux (1/30 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.001 lux (1/8 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.0002 lux (1/8 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.01 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.001 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.002 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.0002 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.005 lux (1/30 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.001 lux (1/30 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.001 lux (1/8 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.0002 lux (1/8 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON
Aperture range	F1.6 – 32 , Close	F1.3 – 32 , Close	F1.6 – 32 , Close	F1.3 – 32 , Close	F1.6 – 32 , Close	F1.3 – 32 , Close
FPS at max. resolution	60 FPS	60 FPS	60 FPS	60 FPS	60 FPS	60 FPS
Max. IR distance	200M	200M	200M	200M	-	-
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG		H.265/HEVC main profile, H.264 main and high profile, Motion JPEG		H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	
ePTZ & Digital Zoom	- / Yes (X8)	- / Yes (X8)	- / Yes (X8)	- / Yes (X8)	- / Yes (X8)	- / Yes (X8)
Sense Up	Supported	Supported	Supported	Supported	Supported	Supported
Electronic shutter speed	Supported	Supported	Supported	Supported	Supported	Supported
Digital noise reduction	Supported	Supported	Supported	Supported	Supported	Supported
High Dynamic Range	Supported (Up to 120dB)	Supported (Up to 120dB)	Supported (Up to 120dB)	Supported (Up to 120dB)	Supported (Up to 120dB)	Supported (Up to 120dB)
Defog	Supported	Supported	Supported	Supported	Supported	Supported
Electronic Image Stabilization	--	--	--	--	--	--
Privacy masking	16 zone	16 zone	16 zone	16 zone	16 zone	16 zone
Preset	256	256	256	256	256	256
Alarm I/O	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2
Schedule setting	Supported	Supported	Supported	Supported	Supported	Supported
IP rating / Vandal resistant rating	IP66 / IK10 (Housing)	IP66 / IK10 (Housing)	IP66 / IK10 (Housing)	IP66 / IK10 (Housing)	IP66 / IK10 (Housing)	IP66 / IK10 (Housing)
Operating temperature	- 40°C – + 50°C (-40°F – 122°F)	- 40°C – + 50°C (-40°F – 122°F)	- 40°C – + 50°C (-40°F – 122°F)	- 40°C – + 50°C (-40°F – 122°F)	- 40°C – + 50°C (-40°F – 122°F)	- 40°C – + 50°C (-40°F – 122°F)
Power supply	AC24V ±10% / DC24V		AC100 – 240V ±10%		AC24V ±10% / DC24V / PoE++ (IEEE 802.3bt)	
Power consumption	AC24V, 30 W (Heater OFF, IR OFF) / AC24V, 51 W (Heater OFF, IR ON) AC24V, 70 W (Heater ON, IROFF) / AC24V, 89 W (Heater ON, IRON)		AC100 – 240V, 29 W (Heater OFF, IR OFF) / AC100 – 240V, 48 W (Heater OFF, IR ON) AC100 – 240V, 65 W (Heater ON, IROFF) / AC100 – 240V, 84 W (Heater ON, IRON)		AC24V, 17.2 W / DC24V, 16.2 W / PoE++, 15.7 W (Heater OFF) AC24V, 25.9 W / DC24V, 25.7 W / PoE++, 23.8 W (Heater ON)	
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio
Micro SD/SDHC card	Micro SD / SDHC / SDXC card Supported		Micro SD / SDHC / SDXC card Supported		Micro SD / SDHC / SDXC card Supported	
ONVIF	ONVIF Profile S / ONVIF Profile T		ONVIF Profile S / ONVIF Profile T		ONVIF Profile S / ONVIF Profile T	

PTZ Camera



Model	S8R5554X25	S8R5554X30	S8R5558X25	S8R5558X30	S8D4654EX25	S8D4654EX30
Resolution	5MP (D & N)	5MP (D & N)	5MP (D & N)	5MP (D & N)	5MP (D & N)	5MP (D & N)
Lens zoom ratio	25X Optical	30X Optical	25X Optical	30X Optical	25X Optical	30X Optical
Focal length	5.3 mm – 132.5 mm	4.94 mm – 148.2 mm	5.3 mm – 132.5 mm	4.94 mm – 148.2 mm	5.3 mm – 132.5 mm	4.94 mm – 148.2 mm
Pick up element	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor
Effective pixels	2592 × 1944	2592 × 1944	2592 × 1944	2592 × 1944	2592 × 1944	2592 × 1944
Min. illumination	0.04 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.008 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.008 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.001 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.02 lux (1/30 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.004 lux (1/30 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.004 lux (1/8 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.0008 lux (1/8 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.04 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.008 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.008 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.001 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.02 lux (1/30 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.004 lux (1/30 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.004 lux (1/8 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.0008 lux (1/8 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.04 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.008 lux (1/30 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.008 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.001 lux (1/8 sec, F1.6(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.02 lux (1/30 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.004 lux (1/30 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0.004 lux (1/8 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-OFF Color mode) 0.0008 lux (1/8 sec, F1.3(Wide), 30IRE, AGC-Gain: 60dB ICR-ON B/W mode) 0 Lux with IR LED ON
Aperture range	F1.6 – 32, Close	F1.3 – 32, Close	F1.6 – 32, Close	F1.3 – 32, Close	F1.6 – 32, Close	F1.3 – 32, Close
FPS at max. resolution	30 FPS	60 FPS	60 FPS	60 FPS	60 FPS	60 FPS
Max. IR distance	200M	200M	200M	200M	-	-
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG		H.265/HEVC main profile, H.264 main and high profile, Motion JPEG		H.265/HEVC main profile, H.264 main and high profile, Motion JPEG	
ePTZ & Digital Zoom	- / Yes (X8)	- / Yes (X8)	- / Yes (X8)	- / Yes (X8)	- / Yes (X8)	- / Yes (X8)
Sense Up	Supported	Supported	Supported	Supported	Supported	Supported
Electronic shutter speed	Supported	Supported	Supported	Supported	Supported	Supported
Digital noise reduction	Supported	Supported	Supported	Supported	Supported	Supported
High Dynamic Range	Supported (Up to 120dB)	Supported (Up to 120dB)	Supported (Up to 120dB)	Supported (Up to 120dB)	Supported (Up to 120dB)	Supported (Up to 120dB)
Defog	Supported	Supported	Supported	Supported	Supported	Supported
Electronic Image Stabilization	--	--	--	--	--	--
Privacy masking	16 zone	16 zone	16 zone	16 zone	16 zone	16 zone
Preset	256	256	256	256	256	256
Alarm I/O	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2
Schedule setting	Supported	Supported	Supported	Supported	Supported	Supported
IP rating / Vandal resistant rating	IP66 / IK10 (Housing)	IP66 / IK10 (Housing)	IP66 / IK10 (Housing)	IP66 / IK10 (Housing)	IP66 / IK10 (Housing)	IP66 / IK10 (Housing)
Operating temperature	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)
Power supply	AC24V ±10% / DC24V		AC100 – 240V ±10%		AC24V ±10% / DC24V / PoE++ (IEEE 802.3bt)	
Power consumption	AC24V, 30 W (Heater OFF, IR OFF) / AC24V, 51 W (Heater OFF, IR ON) AC24V, 70 W (Heater ON, IROFF) / AC24V, 89 W (Heater ON, IRON)		AC100 – 240V, 29 W (Heater OFF, IR OFF) / AC100 – 240V, 48 W (Heater OFF, IR ON) AC100 – 240V, 65 W (Heater ON, IROFF) / AC100 – 240V, 84 W (Heater ON, IRON)		AC24V, 17.2 W / DC24V, 16.2 W / PoE++, 15.7 W (Heater OFF) AC24V, 25.9 W / DC24V, 25.7 W / PoE++, 23.8 W (Heater ON)	
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio
Micro SD/SDHC card	Micro SD / SDHC / SDXC card Supported		Micro SD / SDHC / SDXC card Supported		Micro SD / SDHC / SDXC card Supported	
ONVIF	ONVIF Profile S / ONVIF Profile T		ONVIF Profile S / ONVIF Profile T		ONVIF Profile S / ONVIF Profile T	

PTZ Camera

NEMA



Model	PPSR5520EX25-C	PPSR5520EX30-C	PPSR5524X25-C	PPSR5524X30-C	PPSR5528X25-C	PPSR5528X30-C
Resolution	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)
Lens zoom ratio	25X Optical	30X Optical	25X Optical	30X Optical	25X Optical	30X Optical
Focal length	4.7 mm – 117.5 mm	4.3 mm – 129.0 mm	4.7 mm – 117.5 mm	4.3 mm – 129.0 mm	4.7 mm – 117.5 mm	4.3 mm – 129.0 mm
Pick up element	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor
Effective pixels	1944 × 1224	1944 × 1224	1944 × 1224	1944 × 1224	1944 × 1224	1944 × 1224
Min. illumination	0.5 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.2 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0.1 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.01 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.5 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.2 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0.1 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.01 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.5 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.2 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0.1 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.01 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.5 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.2 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0.1 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.01 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.5 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.2 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0.1 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.01 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.5 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.2 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0.1 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.01 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0 Lux with IR LED ON
Aperture range	F1.6 – 16, Close	F1.6 – 32, Close	F1.6 – 16, Close	F1.6 – 32, Close	F1.6 – 16, Close	F1.6 – 32, Close
FPS at max. resolution	60 FPS	60 FPS	60 FPS	60 FPS	60 FPS	60 FPS
Max. IR distance	200M	200M	200M	200M	200M	200M
Compression	H.264 Main and High Profile, Motion JPEG	H.264 Main and High Profile, Motion JPEG	H.264 Main and High Profile, Motion JPEG	H.264 Main and High Profile, Motion JPEG	H.264 Main and High Profile, Motion JPEG	H.264 Main and High Profile, Motion JPEG
ePTZ & Digital Zoom	16X	16X	16X	16X	16X	16X
Sense Up / Digital noise reduction	Supported	Supported	Supported	Supported	Supported	Supported
Electronic shutter speed	Supported	Supported	Supported	Supported	Supported	Supported
High Dynamic Range	Supported (Up to 90dB)	Supported (Up to 90dB)	Supported (Up to 90dB)	Supported (Up to 90dB)	Supported (Up to 90dB)	Supported (Up to 90dB)
Back light compensation	Supported	Supported	Supported	Supported	Supported	Supported
Defog	Supported	Supported	Supported	Supported	Supported	Supported
Electronic Image Stabilization	Supported	Supported	Supported	Supported	Supported	Supported
Privacy masking	16 zone	16 zone	16 zone	16 zone	16 zone	16 zone
Preset	256	256	256	256	256	256
Alarm I/O	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2
Schedule setting	Supported	Supported	Supported	Supported	Supported	Supported
IP rating / Vandal resistant rating	IP66 / IK10	IP66 / IK10	IP66 / IK10	IP66 / IK10	IP66 / IK10	IP66 / IK10
IVS Advanced 2.0 (Optional 1)	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting					
IVS Advanced 2.1 (Optional 2)	Unattended Object Detection, Missing Object Detection, Crowd Detection, Loitering Detection, Face Detection					
Operating temperature	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)
Power supply	PoE++ (IEEE 802.3bt) / DC48V	PoE++ (IEEE 802.3bt) / DC48V	AC24V ±10%	AC24V ±10%	AC100 – 240V ±10%	AC100 – 240V ±10%
Power consumption	PoE++, 47.5 W / DC48V, 46 W (Heater OFF) PoE++, 82.5 W / DC48V, 81 W (Heater ON)		AC24V, 43.5W (Heater OFF) AC24V, 87.5W (Heater ON)		AC100 – 240V, 46.8W (Heater OFF) AC100 – 240V, 85W (Heater ON)	
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio
Micro SD/SDHC card	Micro SD / SDHC / SDXC card Supported		Micro SD / SDHC / SDXC card Supported		Micro SD / SDHC / SDXC card Supported	
ONVIF	ONVIF Profile S, ONVIF Profile T, ONVIF Profile G		ONVIF Profile S, ONVIF Profile T, ONVIF Profile G		ONVIF Profile S, ONVIF Profile T, ONVIF Profile G	

PTZ Camera

NEMA



Model	PSR5520EX25	PSR5520EX30	PSR5524X25	PSR5524X30	PSR5528X25	PSR5528X30
Resolution	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)
Lens zoom ratio	25X Optical	30X Optical	25X Optical	30X Optical	25X Optical	30X Optical
Focal length	4.7 mm – 117.5 mm	4.3 mm – 129.0 mm	4.7 mm – 117.5 mm	4.3 mm – 129.0 mm	4.7 mm – 117.5 mm	4.3 mm – 129.0 mm
Pick up element	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor
Effective pixels	1944 × 1224	1944 × 1224	1944 × 1224	1944 × 1224	1944 × 1224	1944 × 1224
Min. illumination	0.5 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.2 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0.1 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.01 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.5 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.2 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0.1 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.01 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.5 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.2 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0.1 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.01 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.5 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.2 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0.1 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.01 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.5 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.2 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0.1 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.01 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0 Lux with IR LED ON	0.5 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.2 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0.1 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.01 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0 Lux with IR LED ON
Aperture range	F1.6 – 16, Close	F1.6 – 32, Close	F1.6 – 16, Close	F1.6 – 32, Close	F1.6 – 16, Close	F1.6 – 32, Close
FPS at max. resolution	60 FPS	60 FPS	60 FPS	60 FPS	60 FPS	60 FPS
Max. IR distance	200M	200M	200M	200M	200M	200M
Compression	H.264 Main and High Profile, Motion JPEG		H.264 Main and High Profile, Motion JPEG		H.264 Main and High Profile, Motion JPEG	
ePTZ & Digital Zoom	16X	16X	16X	16X	16X	16X
Sense Up / Digital noise reduction	Supported	Supported	Supported	Supported	Supported	Supported
Electronic shutter speed	Supported	Supported	Supported	Supported	Supported	Supported
High Dynamic Range	Supported (Up to 90dB)	Supported (Up to 90dB)	Supported (Up to 90dB)	Supported (Up to 90dB)	Supported (Up to 90dB)	Supported (Up to 90dB)
Back light compensation	Supported	Supported	Supported	Supported	Supported	Supported
Defog	Supported	Supported	Supported	Supported	Supported	Supported
Electronic Image Stabilization	Supported	Supported	Supported	Supported	Supported	Supported
Privacy masking	16 zone	16 zone	16 zone	16 zone	16 zone	16 zone
Preset	256	256	256	256	256	256
Alarm I/O	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2
Schedule setting	Supported	Supported	Supported	Supported	Supported	Supported
IP rating / Vandal resistant rating	IP66 / IK10	IP66 / IK10	IP66 / IK10	IP66 / IK10	IP66 / IK10	IP66 / IK10
IVS Advanced 2.0 (Optional 1)	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting					
IVS Advanced 2.1 (Optional 2)	Unattended Object Detection, Missing Object Detection, Crowd Detection, Loitering Detection, Face Detection					
Operating temperature	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)	-40°C – +50°C (-40°F – 122°F)
Power supply	PoE++ (IEEE 802.3bt) / DC48V	PoE++ (IEEE 802.3bt) / DC48V	AC24V ±10%	AC24V ±10%	AC100 – 240V ±10%	AC100 – 240V ±10%
Power consumption	PoE++, 47.5 W / DC48V, 46 W (Heater OFF) PoE++, 82.5 W / DC48V, 81 W (Heater ON)		AC24V, 43.5W (Heater OFF) AC24V, 87.5W (Heater ON)		AC100 – 240V, 46.8W (Heater OFF) AC100 – 240V, 85W (Heater ON)	
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio	Two-way Audio
Micro SD/SDHC card	Micro SD / SDHC / SDXC card Supported		Micro SD / SDHC / SDXC card Supported		Micro SD / SDHC / SDXC card Supported	
ONVIF	ONVIF Profile S, ONVIF Profile T, ONVIF Profile G		ONVIF Profile S, ONVIF Profile T, ONVIF Profile G		ONVIF Profile S, ONVIF Profile T, ONVIF Profile G	

PTZ Camera



Model	PSD4624EX20	PSD4624EX30
Resolution	1080P (D & N)	1080P (D & N)
Lens zoom ratio	20X Optical	30X Optical
Focal length	4.7 mm – 117.5 mm	4.3 mm – 129.0 mm
Pick up element	1/2.8" CMOS image sensor	1/2.8" CMOS image sensor
Effective pixels	1944 × 1224	1944 × 1224
Min. illumination	0.5 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.2 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0.1 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.01 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode)	0.5 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.2 lux (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode) 0.1 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF Color mode) 0.01 lux (1/8 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-ON B/W mode)
Aperture range	F1.6 – 32 , Close	F1.6 – 32 , Close
FPS at max. resolution	60 FPS	60 FPS
Max. IR distance	-	-
Compression	H.264 Main and High Profile, Motion JPEG	H.264 Main and High Profile, Motion JPEG
ePTZ & Digital Zoom	16X	16X
Sense Up	Supported	Supported
Electronic shutter speed	Supported	Supported
Digital noise reduction	Supported	Supported
High Dynamic Range	Supported (Up to 90dB)	Supported (Up to 90dB)
Back light compensation	Supported	Supported
Defog	Supported	Supported
Electronic Image Stabilization	Supported	Supported
Privacy masking	16 zone	16 zone
Preset	256	256
Alarm I/O	4 / 2	4 / 2
Schedule setting	Supported	Supported
IP rating / Vandal resistant rating	IP66 / IK10	IP66 / IK10
Operating temperature	- 40°C – + 50°C (-40°F – 122°F)	- 40°C – + 50°C (-40°F – 122°F)
Power supply	AC24V ±10% / DC24V / PoE++ (IEEE 802.3bt)	AC24V ±10% / DC24V / PoE++ (IEEE 802.3bt)
Power consumption	AC24V, 20W / DC24V, 32W / PoE++, 31.2W (Heater OFF) AC24V, 48W / DC24V, 51W / PoE++, 52.1W (Heater ON)	AC24V, 20W / DC24V, 32W / PoE++, 31.2W (Heater OFF) AC24V, 48W / DC24V, 51W / PoE++, 52.1W (Heater ON)
Mobile phone	iOS, Android	iOS, Android
Audio capability	Two-way Audio	Two-way Audio
Micro SD/SDHC card	Micro SD / SDHC / SDXC card Supported	Micro SD / SDHC / SDXC card Supported
ONVIF	ONVIF Profile S, ONVIF Profile T, ONVIF Profile G,	ONVIF Profile S, ONVIF Profile T, ONVIF Profile G

PTZ Camera



Model	PZD6422EX3
Resolution	1080P (D & N)
Lens zoom ratio	3X Optical
Focal length	3.35 mm – 10.05 mm
Pick up element	1/2.7" CMOS image sensor
Effective pixels	1920 × 1080
Min. illumination	0.1 lux, (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF) 0.05 lux, (1/30 sec, F1.6(Wide), 50IRE, AGC-Gain: 30dB ICR-OFF)
Aperture range	F1.7(W) – F3.0(T)
FPS at max. resolution	30 FPS
Compression	H.264 Main and High Profile, Motion JPEG
ePTZ & Digital Zoom	-
Sense Up	Supported
Electronic shutter speed	Supported
Digital noise reduction	Supported
High Dynamic Range	Supported (Up to 100dB)
Back light compensation	-
Defog	-
Electronic Image Stabilization	-
Privacy masking	-
Preset	256
Alarm I/O	1 / 1
Schedule setting	Supported
IP rating / Vandal resistant rating	IP67 / IK10
Operating temperature	-10°C – +45°C (14°F – 113°F)
Power supply	DC12V ±10% / PoE (IEEE 802.3af compliant)
Power consumption	DC12V, 6.0W / PoE, 7.5W
Mobile phone	iOS, Android
Audio capability	-
Micro SD/SDHC card	Micro SD / SDHC / SDXC card Supported
ONVIF	ONVIF Profile S

Covert Series

Covert cameras with network feature.

Covert Camera



Model	P3C0122P3
Resolution	1080p
Focal length	3.7mm
Aperture	F 2.8
Angle of view (H)	88.5° (W) 45.8° (H) 106.4° (D)
Pick up element	1/2.9" CMOS
Effective pixels	1920 (H) × 1080 (V) = 2,073,600 (Pixels)
Min. illumination	Color : 0.1 Lux at F2.8 B/W : 0.02 Lux at F2.8
FPS at max. resolution	30 FPS
Compression	H.265/HEVC main profile, H.264 main and high profile, Motion JPEG
Streams	4
Sense up +	Supported
3D noise reduction	Off / 1 – 32 Selectable
HDR	Up to 120dB
2D WDR	Off / Auto / x2 / x4 (by normal mode)
Privacy masking	4 zones
Digital I/O	2 in, 1 out
Event triggers	Motion / Tamper / Alarm / Network lost detection / SmartEvent
Operating temperature	0°C – +50°C (32°F – 122°F)
Power supply	DC12V ±10% (Terminal connector) / PoE (IEEE 802.3af)
Power consumption	DC12V, 5W / PoE, 6W
Audio capability	Two-way Audio, G.711 u-law / PCM / AAC, External Microphone Required
ONVIF	ONVIF Profile S&T&G

NVR Series

High Performance Network Video Recorders.
Based on Linux system.

NVR Recorders



Model	NVR6104E	NVR6208E	NVR6216E
Type	4K	4K	4K
IP video input	4 CH	8 CH	16 CH
Max Frame Rate	120 FPS	240 FPS	480 FPS
Max network throughput	32Mbps	64Mbps	96Mbps
HDD disk	1 × 3.5" HDD (Up to 16TB supported)	2 × 3.5" HDD (Up to 16TB supported)	2 × 3.5" HDD (Up to 16TB supported)
External storage	-	-	-
Resolution	4K / 5M / 4M / 3M / 1080P / 1.3M / 1M / 960H / D1 / VGA / CIF	4K / 5M / 4M / 3M / 1080P / 1.3M / 1M / 960H / D1 / VGA / CIF	4K / 5M / 4M / 3M / 1080P / 1.3M / 1M / 960H / D1 / VGA / CIF
Backup	USB flash disk / HTTP / FTP	USB flash disk / HTTP / FTP	USB flash disk / HTTP / FTP
Output	HDMI 1.4 (4K 30P) / VGA 1080P	HDMI 1.4 (4K 30P) / VGA 1080P	HDMI 1.4 (4K 30P) / VGA 1080P
Alarm/event	DI × 4 and DO × 1 (With programmable condition)	DI × 8 and DO × 1 (With programmable condition)	DI × 8 and DO × 1 (With programmable condition)
Remote controller	Remote controller addressable up to 255 NVRs (Optional)	Remote controller addressable up to 255 NVRs (Optional)	Remote controller addressable up to 255 NVRs (Optional)
Ports	RJ-45 Gigabit Ethernet × 1, RJ-45 100Mbps PoE × 4 (802.3af)	RJ-45 Gigabit Ethernet × 1, RJ-45 100Mbps PoE × 8 (802.3af)	RJ-45 Gigabit Ethernet × 1, RJ-45 100Mbps PoE × 16 (802.3af)
Protocol	ARP / TCP/IP / UDP / HTTP / HTTPS / SMTP / SNMP / FTP / DDNS / PPPoE / NTP / RTP / RTSP / DHCP / ONVIF Profile S	ARP / TCP/IP / UDP / HTTP / HTTPS / SMTP / SNMP / FTP / DDNS / PPPoE / NTP / RTP / RTSP / DHCP / ONVIF Profile S	ARP / TCP/IP / UDP / HTTP / HTTPS / SMTP / SNMP / FTP / DDNS / PPPoE / NTP / RTP / RTSP / DHCP / ONVIF Profile S
Keyboard	Support PIH-931D (Connector box required)	Support PIH-931D (Connector box required)	Support PIH-931D (Connector box required)
Audio out	RCA × 1 (0.7Vp-p, 300 Hz to 3KHz)	RCA × 1 (0.7Vp-p, 300 Hz to 3KHz)	RCA × 1 (0.7Vp-p, 300 Hz to 3KHz)
Web access	Live / playback / backup / menu configuration / event log	Live / playback / backup / menu configuration / event log	Live / playback / backup / menu configuration / event log
Mobile phone	iOS / Android supported	iOS / Android supported	iOS / Android supported
Multi-language	Arabic, Traditional Chinese, Simplified Chinese, English, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Turkish	Arabic, Traditional Chinese, Simplified Chinese, English, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Turkish	Arabic, Traditional Chinese, Simplified Chinese, English, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Turkish
Operating temperature	0°C ~ 45°C	0°C ~ 45°C	0°C ~ 45°C
Dimension (W×L×H)	360 × 316 × 60 mm	360 × 316 × 60 mm	360 × 316 × 60 mm
Power supply	DC 48V 1.35A 65W (Max) for HDDs and cameras	DC 48V 2A 120W (Max) for HDDs and cameras	DC 48V 5A 240W (Max) for HDDs and cameras
Others	•WS-Discovery •P2P supported •S.M.A.R.T monitoring •External USB GPS time sync •Chrome, Edge, Firefox, IE, Opera, Safari supported •4 Port PoE, automatic network camera plug and play •GPS communications	•WS-Discovery •P2P supported •S.M.A.R.T monitoring •External USB GPS time sync •Chrome, Edge, Firefox, IE, Opera, Safari supported •8 Port PoE, automatic network camera plug and play •GPS communications	•WS-Discovery •P2P supported •S.M.A.R.T monitoring •External USB GPS time sync •Chrome, Edge, Firefox, IE, Opera, Safari supported •16 Port PoE, automatic network camera plug and play •GPS communications

NAV Series

High Performance Network Video Recorders.
Based on Windows system with advanced video features.

NAV Recorders



Model	NAV2036A	NAV08036A	NAV08072A	NAV08108A
Network video support	LILIN IP camera, LILIN IP camera over HTTPS, LILIN Fisheye camera, LILIN IP speed dome, LILIN DVR/NVR, LILIN DHD recorder, NAV live streaming, P2P live streaming, ONVIF camera, manual RTSP, screen capture, USB video input, picture capture			
CPU	Intel® Core™ i5-10500	Intel® Core™ i5-10500	Intel® Core™ i5-10500	Intel® Core™ i7-10700
Network video input	Up to 36 channels 1080P / 3M / 4M / 5M / 8M / 12M	Up to 36 channels 1080P / 3M / 4M / 5M / 8M / 12M	Up to 72 channels 1080P / 3M / 4M / 5M / 8M / 12M	Up to 72 channels 1080P / 3M / 4M / 5M / 8M / 12M
Network video format	H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG
Max network throughput	Upload: up to 500Mbps, Download: up to 500Mbps	Upload: up to 500Mbps, Download: up to 500Mbps	Upload: up to 500Mbps, Download: up to 500Mbps	Upload: up to 500Mbps, Download: up to 500Mbps
Internal HDD / Swap drive bay	built-in 1 × 500GB 2.5 Inch SATA SSD (OS) Support up to 3 × 3.5 Inch SATA HDD (recording)	built-in 1 × 500GB 2.5 Inch SATA SSD (OS) Support up to 8 × Hot-swap 3.5 Inch SATA HDD (recording)	built-in 1 × 500GB 2.5 Inch SATA SSD (OS) Support up to 8 × Hot-swap 3.5 Inch SATA HDD (recording)	built-in 1 × 500GB 2.5 Inch SATA SSD (OS) Support up to 8 × Hot-swap 3.5 Inch SATA HDD (recording)
Recording schedule	7 days × 24 hrs time table, recording mode configurable	7 days × 24 hrs time table, recording mode configurable	7 days × 24 hrs time table, recording mode configurable	7 days × 24 hrs time table, recording mode configurable
Recording mode	Alarm, motion, schedule, and manual	Alarm, motion, schedule, and manual	Alarm, motion, schedule, and manual	Alarm, motion, schedule, and manual
Recording speed	Max 12MP@20fps, 8MP@30fps, 5MP@30fps, 4MP@30fps, 3MP@30fps, 1080p@120fps, and ROI recording supported			
Alarm recording	Remote digital input, remote IVS detection, remote face detection, remote tamper detection, remote audio detection, external IO, motion detection, NAV CGI Triggering, video loss detection, speed measurement detection, ANPR detection, facial recognition, remote LPR detection, QR code detection, aida behavior detection			
Playback search	Date, time, Smart search, Alarm search, POS, ANPR search, Face search, Face trace search (in FR server only), Tagging search			
Video speed	Max 12MP@20fps, 8MP@30fps, 5MP@30fps, 4MP@30fps, 3MP@30fps, 1080p@120fps			
Playback speed	Fast Rewind: 1/8, 1/4, 1/2, 1X, 2X, 4X, 8X, 16X, 32X Fast Forward: 1/8, 1/4, 1/2, 1X, 2X, 4X, 8X, 16X, 32X			
Digital zoom	Yes, ePTZ supported	Yes, ePTZ supported	Yes, ePTZ supported	Yes, ePTZ supported
Output	1 × HDMI port 1.4b, (4096 × 2160@24Hz) 1 × DisplayPort 1.2 (4096 × 2160@60Hz)	1 × HDMI port 1.4b, (4096 × 2160@24Hz) 1 × DisplayPort 1.2 (4096 × 2160@60Hz)	1 × HDMI port 1.4b, (4096 × 2160@24Hz) 1 × DisplayPort 1.2 (4096 × 2160@60Hz)	1 × HDMI port 1.4b, (4096 × 2160@24Hz) 1 × DisplayPort 1.2 (4096 × 2160@60Hz)
Mosaic TV wall	-	-	-	-
Dual stream technology	Multi-channel displays D1 and full screen displays 1080P / 3M / 4M / 5M / 8M / 12M resolution			
Split screen	4, 9, 16, 25, 36	4, 9, 16, 25, 36	4, 9, 16, 25, 36	4, 9, 16, 25, 36
Video archiving & sync	Individual camera configurable, scheduling and instant archiving, sync recording data with NAV server / NVR / DVR / IP camera SD card.			
Alarm management	Play audio file, send email notification, PTZ preset, digital output triggering, full screen, post alarm record, pre-alarm record, advanced alarm digital output, send customizable HTTP POST CGI URL to third party device, alarm ACK, alarm snapshot, text overlay, App cloud push notification, NCC TV wall ACK, NCC eMap Center Alarm, NCC play sound, NCC global alarm setting, all these action can be automatic or scheduled			
Alarm recording	Pre-alarm:1 ~ 10 seconds and post-alarm: 1 sec ~ 59 minutes			
Event	Various alarm log including video loss, stop recording, schedule, logon, operation log			
Keyboard	PIH-931D keyboard controllable via rs-485 to usb converter for PTZ, ePTZ, and ROI features			
Audio	PCM/G.711/AAC, two-way audio, audio recording	PCM/G.711/AAC, two-way audio, audio recording	PCM/G.711/AAC, two-way audio, audio recording	PCM/G.711/AAC, two-way audio, audio recording
POS	Third party TCP/IP/ RS-232 / Bluetooth supported / HID USB Barcode scanner			
Protocols	ARP / TCP/IP / RTSP / ONVIF / HTTP / HTTPS / SMTP / DNS / PPPoE / SDDP			
Mobile support	iOS, Android	iOS, Android	iOS, Android	iOS, Android
RAID	-	RAID 0, 1, 5, 6, 10, 50	RAID 0, 1, 5, 6, 10, 50	RAID 0, 1, 5, 6, 10, 50
Language	English, Traditional Chinese, Spanish, German, French, Russian, Japanese, Portuguese, Italian, Simplified Chinese, Slovenian, Czech, Hungarian, Turkish, Arabic, Persian, Bengali, Vietnamese			
Power consumption / Power supply	500W, 110V ~ 240V	500W, 110V ~ 240V	500W, 110V ~ 240V	500W, 110V ~ 240V
Dimension (H×W×D)	88 (H) × 438 (W) × 452 (D) mm	88 (H) × 438 (W) × 452 (D) mm	88 (H) × 438 (W) × 452 (D) mm	88 (H) × 438 (W) × 452 (D) mm

NAV Recorders



Model	NAV24108C	NAV1108C
Network video support	LILIN IP camera, LILIN IP camera over HTTPS, LILIN Fisheye camera, LILIN IP speed dome, LILIN DVR/NVR, LILIN DHD recorder, NAV live streaming, P2P live streaming, ONVIF camera, manual RTSP, screen capture, USB video input, picture capture	
CPU	Intel® Core™ i9-10900	Intel® Xeon® Silver 4208
Network video input	Up to 108 channels 1080P / 3M / 4M / 5M / 8M / 12M	Up to 108 channels 1080P / 3M / 4M / 5M / 8M / 12M
Network video format	H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG
Max network throughput	Upload: up to 5000Mbps, Download: up to 5000Mbps	Upload: up to 5000Mbps, Download: up to 5000Mbps
Internal HDD / Swap drive bay	built-in 1 × 500GB 2.5 Inch SATA SSD (OS) Support up to 24 x 3.5 Inch SATA HDD (recording)	built-in 1 × 500GB 2.5 Inch SATA SSD (OS) Support up to 24 x 3.5 Inch SATA HDD (recording)
Recording schedule	7 days × 24 hrs time table, recording mode configurable	7 days × 24 hrs time table, recording mode configurable
Recording mode	Alarm, motion, schedule, and manual	Alarm, motion, schedule, and manual
Recording speed	Max 12MP@20fps, 8MP@30fps, 5MP@30fps, 4MP@30fps, 3MP@30fps, 1080p@120fps, and ROI recording supported	
Alarm recording	Remote digital input, remote IVS detection, remote face detection, remote tamper detection, remote audio detection, external IO, motion detection, NAV CGI Triggering, video loss detection, speed measurement detection, ANPR detection, facial recognition, remote LPR detection, QR code detection, aida behavior detection	
Playback search	Date, time, Smart search, Alarm search, POS, ANPR search, Face search, Face trace search (in FR server only), Tagging search	
Playback speed	Fast Rewind: 1/8, 1/4, 1/2, 1X, 2X, 4X, 8X, 16X, 32X Fast Forward: 1/8, 1/4, 1/2, 1X, 2X, 4X, 8X, 16X, 32X	
Digital zoom	Yes, ePTZ supported	Yes, ePTZ supported
Output	1 × HDMI port 2.0b, (4096 × 2160@60Hz) 3 × DisplayPort 1.4 (4096 × 2304@60Hz)	1 × HDMI port 2.0b, (4096 × 2160@60Hz) 3 × DisplayPort 1.4 (4096 × 2304@60Hz)
Mosaic TV wall	-	-
Dual stream technology	Multi-channel displays D1 and full screen displays 1080P / 3M / 4M / 5M / 8M / 12M resolution	
Split screen	4, 9, 16, 25, 36	4, 9, 16, 25, 36
Video archiving & sync	Individual camera configurable, scheduling and instant archiving, sync recording data with NAV server / NVR / DVR / IP camera SD card.	
Alarm management	Play audio file, send email notification, PTZ preset, digital output triggering, full screen, post alarm record, pre-alarm record, advanced alarm digital output, send customizable HTTP POST CGI URL to third party device, alarm ACK, alarm snapshot, text overlay, App cloud push notification, NCC TV wall ACK, NCC eMap Center Alarm, NCC play sound, NCC global alarm setting, all these action can be automatic or scheduled	
Alarm recording	Pre-alarm: 1 ~ 10 seconds and post-alarm: 1 sec ~ 59 minutes	
Event	Various alarm log including video loss, stop recording, schedule, logon, operation log	
Keyboard	PIH-931D keyboard controllable via rs-485 to usb converter for PTZ, ePTZ, and ROI features	
Audio	PCM/G.711/AAC, two-way audio, audio recording	PCM/G.711/AAC, two-way audio, audio recording
POS	Third party TCP/IP/ RS-232 / Bluetooth supported / HID USB Barcode scanner	
Protocols	ARP / TCP/IP / RTSP / ONVIF / HTTP / HTTPS / SMTP / DNS / PPPoE / SDDP	
Mobile support	iOS, Android	iOS, Android
RAID	RAID 0, 1, 5, 6, 10, 50	RAID 0, 1, 5, 6, 10, 50
Language	English, Traditional Chinese, Spanish, German, French, Russian, Japanese, Portuguese, Italian, Simplified Chinese, Slovenian, Czech, Hungarian, Turkish, Arabic, Persian, Bengali, Vietnamese	
Power consumption / Power supply	1200W, 110V ~ 240V	1200W, 110V ~ 240V
Dimension (H×W×D)	177 (H) × 430 (W) × 68s0 (D) mm	177 (H) × 430 (W) × 68s0 (D) mm

NAV Recorders



Model	NAV16072B	NAV16108B	NAV24072B	NAV24108B
Network video support	LILIN IP camera, LILIN IP camera over HTTPS, LILIN Fisheye camera, LILIN IP speed dome, LILIN DVR/NVR, LILIN DHD recorder, NAV live streaming, P2P live streaming, ONVIF camera, manual RTSP, screen capture, USB video input, picture capture			
CPU	Intel® Core™ i7-8700	Intel® Core™ i7-8700	Intel® Core™ i7-8700	Intel® Core™ i7-8700
Network video input	Up to 72 channels 1080P / 3M / 4M / 5M / 8M / 12M	Up to 108 channels 1080P / 3M / 4M / 5M / 8M / 12M	Up to 72 channels 1080P / 3M / 4M / 5M / 8M / 12M	Up to 108 channels 1080P / 3M / 4M / 5M / 8M / 12M
Network video format	H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG
Max network throughput	Upload: up to 500Mbps, Download: up to 500Mbps	Upload: up to 500Mbps, Download: up to 500Mbps	Upload: up to 500Mbps, Download: up to 500Mbps	Upload: up to 500Mbps, Download: up to 500Mbps
Internal HDD / Swap drive bay	built-in 1 × 500GB 2.5 Inch SATA SSD (OS) Support up to 16 × Hot-swap 3.5 Inch SATA HDD (recording)	built-in 1 × 500GB 2.5 Inch SATA SSD (OS) Support up to 16 × Hot-swap 3.5 Inch SATA HDD (recording)	built-in 1 × 500GB 2.5 Inch SATA SSD (OS) Support up to 24 × Hot-swap 3.5 Inch SATA HDD (recording)	built-in 1 × 500GB 2.5 Inch SATA SSD (OS) Support up to 24 × Hot-swap 3.5 Inch SATA HDD (recording)
Recording schedule	7 days × 24 hrs time table, recording mode configurable	7 days × 24 hrs time table, recording mode configurable	7 days × 24 hrs time table, recording mode configurable	7 days × 24 hrs time table, recording mode configurable
Recording mode	Alarm, motion, schedule, and manual			
Recording speed	Max 12MP@20fps, 8MP@30fps, 5MP@30fps, 4MP@30fps, 3MP@30fps, 1080p@120fps, and ROI recording supported			
Alarm recording	Remote digital input, remote IVS detection, remote face detection, remote tamper detection, remote audio detection, external IO, motion detection, NAV CGI Triggering, video loss detection, speed measurement detection, ANPR detection, facial recognition, remote LPR detection, QR code detection, aida behavior detection			
Playback search	Date, time, Smart search, Alarm search, POS, ANPR search, Face search, Face trace search (in FR server only), Tagging search			
Video speed	Max 12MP@20fps, 8MP@30fps, 5MP@30fps, 4MP@30fps, 3MP@30fps, 1080p@120fps			
Playback speed	Fast Rewind: 1/8, 1/4, 1/2, 1X, 2X, 4X, 8X, 16X, 32X Fast Forward: 1/8, 1/4, 1/2, 1X, 2X, 4X, 8X, 16X, 32X			
Digital zoom	Yes, ePTZ supported	Yes, ePTZ supported	Yes, ePTZ supported	Yes, ePTZ supported
Output	1 × HDMI Port 1.2, (4096 × 2160@24Hz) 1 × DVI-D Port, (1920 × 1080@60Hz) 1 × DisplayPort 1.4, (4096 × 2304@60Hz)	2 × HDMI Port 2.0b, (4096 × 2160@60Hz) 2 × DVI-D Port, (1920 × 1080@60Hz) 2 × DisplayPort 1.4, (4096 × 2304@60Hz)	1 × HDMI Port 1.2, (4096 × 2160@24Hz) 1 × DVI-D Port, (1920 × 1080@60Hz) 1 × DisplayPort 1.4, (4096 × 2304@60Hz)	2 × HDMI Port 2.0b, (4096 × 2160@60Hz) 2 × DVI-D Port, (1920 × 1080@60Hz) 2 × DisplayPort 1.4, (4096 × 2304@60Hz)
Dual stream technology	Multi-channel displays D1 and full screen displays 1080P / 3M / 4M / 5M / 8M / 12M resolution			
Split screen	4, 9, 16, 25, 36	4, 9, 16, 25, 36	4, 9, 16, 25, 36	4, 9, 16, 25, 36
Video archiving & sync	Individual camera configurable, scheduling and instant archiving, sync recording data with NAV server / NVR / DVR / IP camera SD card.			
Alarm management	Play audio file, send email notification, PTZ preset, digital output triggering, full screen, post alarm record, pre-alarm record, advanced alarm digital output, send customizable HTTP POST CGI URL to third party device, alarm ACK, alarm snapshot, text overlay, App cloud push notification, NCC TV wall ACK, NCC eMap Center Alarm, NCC play sound, NCC global alarm setting, all these action can be automatic or scheduled			
Alarm recording	Pre-alarm: 1 ~ 10 seconds and post-alarm: 1 sec ~ 59 minutes			
Event	Various alarm log including video loss, stop recording, schedule, logon, operation log			
Keyboard	PIH-931D keyboard controllable via rs-485 to usb converter for PTZ, ePTZ, and ROI features			
Audio	PCM/G.711/AAC, two-way audio, audio recording	PCM/G.711/AAC, two-way audio, audio recording	PCM/G.711/AAC, two-way audio, audio recording	PCM/G.711/AAC, two-way audio, audio recording
POS	Third party TCP/IP/ RS-232 / Bluetooth supported / HID USB Barcode scanner			
Protocols	ARP / TCP/IP / RTSP / ONVIF / HTTP / HTTPS / SMTP / DNS / PPPoE / SDDP			
Mobile support	iOS, Android	iOS, Android	iOS, Android	iOS, Android
RAID	RAID 0, 1, 5, 6, 10, 50	RAID 0, 1, 5, 6, 10, 50	RAID 0, 1, 5, 6, 10, 50	RAID 0, 1, 5, 6, 10, 50
Language	English, Traditional Chinese, Spanish, German, French, Russian, Japanese, Portuguese, Italian, Simplified Chinese, Slovenian, Czech, Hungarian, Turkish, Arabic, Persian, Bengali, Vietnamese			
Power consumption / Power supply	800W, 110V ~ 240V Redundant Power Supply	800W, 110V ~ 240V Redundant Power Supply	1200W, 110V ~ 240V Redundant Power Supply	1200W, 110V ~ 240V Redundant Power Supply
Dimension (H×W×D)	133 (H) × 430 (W) × 680 (D) mm	133 (H) × 430 (W) × 680 (D) mm	177 (H) × 430 (W) × 680 (D) mm	177 (H) × 430 (W) × 680 (D) mm

Facial Recognition Recorder



Model	NAV5004F
Input (Facial Recognition)	Up to 4 channels 720P/1080P, 15fps to 30fps
Network video format	H.264 / H.265 / MJPEG
Recognition speed	10~11 recognitions per second for a camera
Number of channels	4 cameras up to 40 recognitions / sec
Number of faces	Up to 4 people faces per channel
Minimum face photo pixel requirement	80x80 pixel: 70% confidence rate, 300x300: 80% confidence rate, 450x450 pixel: 90% confidence rate
Detection distance	0.5 ~ 6m, face photo with 80x80 ~ 450x450 pixel
Video resolution supported	720P, 1080P
Maximum people detection allowed	10000 people
Face training database	up to 10 pictures per person
Recognition rate	96.2% at 2000 people DB, recognition rate might drop and recognition rate might increase for big face db.
Detectable face angle	Up and down +/-15 degree, left and right +/-15 degree
Environment minimum Lux	450Lux~1000Lux
Face photo db	Batch photos import
Face detected for alarm triggering	Full screen, OSD text, digital output triggering, buzzer, PTZ preset
Face lists	VIP list, unauthorized list, guest list
Guest list	Guest list allows added into face database
Age and gender detection	Supported age and gender detection for SDK integration
Schedule	4 scheduling tables for alarm outputs and DO triggering
CPU	Intel® Core™ i7-10700
RAM	32GB (2 × DDR4 16GB)
Chipset	Intel® H410
Display card	1 x NVidia RTX-3060
SSD / HDD	built-in 1 × 500GB 2.5" SATA SSD (OS) built-in 1 × 1TB 3.5" SATA HDD (recording) Support up to 2 x 3.5" SATA HDD Note: Do not use WD Purple HDDs for NAV HDD installation. Please use 7200RPM WD Red Pro for non-RAID installation, WD (Gold) Enterprise HDDs for RAID installation, or other Enterprise HDDs
Dimension (mm)	177 (H) × 482 (W) × 650 (D) mm
Weight	35.27 lbs (16.0kg)

VMS

Video Management Software

Navigator 5.0 VMS



Model	NAV Corporate
OS	Windows 10&11 Embedded SAC 64bit (Professional 20H2 above), Server 2012R2, 2016
Record channel max	Up to 108 channels
Split screen	4, 9, 16, 25, 36
Resolution	Max 12MP@20fps, 8MP@30fps, 5MP@30fps, 4MP@30fps, 3MP@30fps, 1080p@120fps, and ROI recording supported
Playback Compression	H.265/ H.264 /JPEG
Support ONVIF IPC	Authorized use
Recording Mode	No recording, record main stream, record substream, record dual stream, low bitrate recording mode
HDD Circular Recording customizable	Supported
Video Reserved days	1 to 365 days
Snapshot Reserved days	1 to 365 days
Raid System Monitor	Supported
RAID Hard disk failure notification	Support LSI RAID
Daily System Reboot time adjustable	Supported
Low Bandwidth Mode	JPEG snapshot input and record (1 FPS, 0.5 FPS, 0.333 FPS, 0.25 FPS, 0.2 FPS, 0.167 FPS)
Recording Schedule	7 days × 24 hrs time table, recording mode configurable
Assign Recording Disk	Supported
Recording Calculator	Yes, dynamically calculating available recording days
External Storage Recording	Support NAS (SMB/CIFS), iSCSI
Failover	Supported / can rescue 36 channels of each server
Archiving	Supported
Video Input	LILIN IP camera, LILIN IP camera over HTTPS, LILIN Fisheye camera, LILIN IP speed dome, LILIN DVR/NVR, LILIN DHD recorder, NAV live streaming, P2P live streaming, ONVIF camera, manual RTSP screen capture, USB video input, picture capture
Alarm Input	Remote digital input, remote IVS detection, remote tamper detection, remote audio detection, external IO, motion detection, NAV CGI Triggering, video loss detection, speed measurement detection, ANPR detection, facial recognition, remote ANPR detection, QR code detection, AIDA behavior detection
Alarm Output	Play audio file, send email notification, PTZ preset, digital output triggering, full screen, post alarm record, pre-alarm record, advanced alarm digital output, send customizable HTTP POST CGI URL to third party device, alarm ACK, alarm snapshot, text overlay, App cloud push notification, NCC TV wall ACK, NCC eMap Center Alarm, NCC play sound, NCC global alarm setting, all these action can be automatic or scheduled

Digital Output	LILIN NVR digital output, LILIN DHD recorder digital output, LILIN IP camera digital output, LILIN IOBOX digital output, third party TCP/IP digital output supported.
Alarm Scheduling	Up to four alarm tables with AND logic
Event Thumbnails bar length customizable	Auto, 3 to 13 snapshots in a bar
Grouping setting	User can create up to 20 group, maximum number of channel up to 720
Digital Zoom	Yes, ePTZ supported for live and playback
PTZ control	Mouse control, zoom in/out, , Moving direction
Digital watermark	Support digital watermark feature to ensure the backup footage is not got forged and modified
Privacy Mask	Supported
Sequence display	Supported
Fisheye Dewarp Mode	Support Immervision lens
Fisheye Dewarp Mode	Ceiling and ground mounted 1R One Region, 3R10 Three Regions One Fisheye, 4R Four Regions, 2R1P Two Regions One Panoramic 360 , 2P Two Panoramics 180, 8R10 Eight Regions One Fisheye Wall mounted 1R One Region, 3R10 Three Regions One Fisheye, 4R Four Regions, 2R1P Two Regions One Panoramic 180 , 1WP One Wall Panoramic 180 , 8R10 Eight Regions One Fisheye
eMap	Supported
Audio capability	2-way
2x2 TV wall & decoder TV wall	Supported
NVR P2P connection	Supported

CMS

Central Management Software

Navigator 5.0 CMS



Model	NAV Control Center 5.0	Navigator Clinet 5.0
OS	Windows 10&11 Embedded SAC 64bit (Professional Edition 20H2 or above), Server 2012R2, 2016	Windows 10&11 Embedded SAC 64bit (Pro 20H2 or above), Server 2012R2, 2016
Channel max	1~144	
Split screen	1~144, User-defined	
Playback Compression	H.265/ H.264 /JPEG	
LDAP/AD Management	Supported	Supported
User Management	Camera access and function access right manageable	
User Group Management	Centralized user management database up to 512 user groups and 1000 users per group	
Camera Status Management	Camera connection, authentication, view set up, and recording statuses	
Camera Preview	Yes	Yes
Camera View Group	Drag-n-drop, DVR/DHD/NVR channels import, and channel switching	
Live IP Video Input	Supports up to 12M video stream	
Fisheye Dewarp	Support Immervision lens	
Fisheye Dewarp Mode	Ceiling and ground mounted 1R One Region, 3R10 Three Regions One Fisheye, 4R Four Regions, 2R1P Two Regions One Panoramic 360 , 2P Two Panoramics 180, 8R10 Eight Regions One Fisheye Wall mounted 1R One Region, 3R10 Three Regions One Fisheye, 4R Four Regions, 2R1P Two Regions One Panoramic 180 , 1WP One Wall Panoramic 180 , 8R10 Eight Regions One Fisheye	
Spot Monitor	Yes, live sequence display	
Digital Zoom	Live and recorded videos (PTZ/ePTZ)	
PTZ control	Yes, on-screen PTZ control and button control	
Digital watermark	support digital watermark feature to ensure the backup footage is not got forged and modified	
Backup / Playback	Up to 36 channels, exportable to AVI or MP4 file	
Multiple Channel Playback	Up to 144 channels	
Asynchronous Time Playback for Same Camera	Asynchronous time playback	
Timebar Playback	Yes	
Instant Playback	5 minutes instant playback	
Remote DVR/DHD/NVR Video	Supports NAV recorder/Navigator/DVR/DHD/NVR/IP camera/SD card for remote video playback; up to 36-channel playback and 36-channel backup	
GPS Track	Support, GPS fleet movement track and map tracking, map live traffic conditions and playback	-
Alarm Triggering	PC alarm sound, designated IP camera alarm DO output, eMail photo output, PTZ preset point output, notification TV wall projection, emap marker display	-
Database Manager	Various alarm events, screen/network disconnection, login and logout, operation event table	-

	NAV Control Center 5.0	Navigator Clinet 5.0
NAV host maintenance status	NAV host maintenance status	-
Video Decoder	LILIN VD022 for video wall	-
Physical Monitors	Up to 1440 physical remote monitors supported by network (based on number of video output available on external graphic card from dedicated server)	-
Video Wall Monitor	Each room can allocate up to 144 monitors to be combined freely	-
Rooms of the Wall	199 rooms supported for various monitor layouts	-
Import View From Client to TV Wall	Support, View Manager canvas template	-
Display One Camera Over Several Monitor	Supported	-
Sequence Mode	Supported	-
Online / Offline maps	Up to 128 online maps and 128 offline maps	-
eMap Offline Map File	JPEG format supported	-
eMap Camera Marks	Up to 1024 camera marks per online map. Up to 36 camera marks per offline map.	-
eMap Live Monitoring	Up to 64 live videos per map.	-
eMap Alarm Snapshot	Motion detection / external alarm / sound detection / face detection / face recognition / license plate recognition	-
Sync Server Setting	User account DB, NAV camera configuration, Facial recognition allowed and denial DB, ANPR allowed and denial DB, NCC camera configuration, eMaps configuration, Remote Group Name	-

NCS

Network Recorders Control Server

NAV Control Server



Model	NCS1200A	NCS3600
Network video support	LILIN IP camera, LILIN IP camera over HTTPS, LILIN Fisheye camera, LILIN IP speed dome, LILIN DVR/NVR, LILIN DHD recorder, NAV live streaming, P2P live streaming, ONVIF camera, manual RTSP, screen capture, USB video input, picture capture	
CPU	Intel® Core™ i3-10100	Intel® Core™ i5-10500
Network video input	Up to 12 channels 1080P / 3M / 4M / 5M / 8M/12M	Up to 36 channels 1080P / 3M / 4M / 5M / 8M/12M
Network video format	H.264 / H.265 / MJPEG	H.264 / H.265 / MJPEG
Max network throughput	Upload: up to 500Mbps, Download: up to 500Mbps	Upload: up to 500Mbps, Download: up to 500Mbps
Internal HDD / Swap drive bay	built-in 1 × 128GB M.2 2280 SSD (OS) built-in 1 × 1TB 2.5 Inch SATA HDD (recording)	built-in 1 × 500GB 2.5 Inch SATA SSD (OS) Support up to 3 × 3.5 Inch SATA HDD (recording)
Recording schedule	7 days × 24 hrs time table, recording mode configurable	7 days × 24 hrs time table, recording mode configurable
Recording mode	Alarm, motion, schedule, and manual	Alarm, motion, schedule, and manual
Recording speed	Max 12MP@20fps, 8MP@30fps, 5MP@30fps, 4MP@30fps, 3MP@30fps, 1080p@120fps, and ROI recording supported	Max 12MP@20fps, 8MP@30fps, 5MP@30fps, 4MP@30fps, 3MP@30fps, 1080p@120fps, and ROI recording supported
Alarm recording	Remote digital input, remote IVS detection, remote face detection, remote tamper detection, remote audio detection, external IO, motion detection, NAV CGI Triggering, video loss detection, speed measurement detection, ANPR detection, facial recognition, remote LPR detection, QR code detection, aida behavior detection	
Playback search	Date, time, Smart search, Alarm search, POS, ANPR search, Face search, Face trace search (in FR server only), Tagging search	
Video speed	Max 12MP@20fps, 8MP@30fps, 5MP@30fps, 4MP@30fps, 3MP@30fps, 1080p@120fps	Max 12MP@20fps, 8MP@30fps, 5MP@30fps, 4MP@30fps, 3MP@30fps, 1080p@120fps
Playback speed	Fast Rewind: 1/8, 1/4, 1/2, 1X, 2X, 4X, 8X, 16X, 32X Fast Forward: 1/8, 1/4, 1/2, 1X, 2X, 4X, 8X, 16X, 32X	
Digital zoom	Yes, ePTZ supported	Yes, ePTZ supported
Output	1 × VGA Port, (1920 × 1080@60Hz) 1 × DisplayPort 1.2, (4096 × 2304@60Hz)	1 × HDMI Port 1.4b (4096 × 2160@24Hz) 1 × DisplayPort 1.2 (4096 × 2160@60Hz)
Dual stream technology	Multi-channel displays D1 and full screen displays 1080P / 3M / 4M / 5M / 8M / 12M resolution	
Split screen	4, 9, 16	4, 9, 16, 25, 36
Video archiving & sync	Individual camera configurable, scheduling and instant archiving, sync recording data with NAV server / NVR / DVR / IP camera SD card.	
Alarm management	Play audio file, send email notification, PTZ preset, digital output triggering, full screen, post alarm record, pre-alarm record, advanced alarm digital output, send customizable HTTP POST CGI URL to third party device, alarm ACK, alarm snapshot, text overlay, App cloud push notification, NCC TV wall ACK, NCC eMap Center Alarm, NCC play sound, NCC global alarm setting, all these action can be automatic or scheduled	
Alarm recording	Pre-alarm:1 ~ 10 seconds and post-alarm: 1 sec ~ 59 minutes	Pre-alarm:1 ~ 10 seconds and post-alarm: 1 sec ~ 59 minutes
Event	Various alarm log including video loss, stop recording, schedule, logon, operation log	
Keyboard	PIH-931D keyboard controllable via rs-485 to usb converter for PTZ, ePTZ, and ROI features	
Audio	PCM/G.711/AAC, two-way audio, audio recording	
POS	Third party TCP/IP/ RS-232 / Bluetooth supported / HID USB Barcode scanner	
Protocols	ARP / TCP/IP / RTSP / ONVIF / HTTP / HTTPS / SMTP / DNS / PPPoE / SDDP	
Mobile support	iOS, Android	iOS, Android
Language	English, Traditional Chinese, Spanish, German, French, Russian, Japanese, Portuguese, Italian, Simplified Chinese, Slovenian, Czech, Hungarian, Turkish, Arabic, Persian, Bengali, Vietnamese	
Power consumption / Power supply	120W, 110V ~ 240V	500W, 110V ~ 240V
Dimension (H×W×D)	155 (H) × 155 (W) × 80 (D) mm	88 (H) × 438 (W) × 451 (D) mm

Smart I/O Box

Programmable DI/DO Hub

Programmable Smart I/O BOX



Model	DB052E
Digital Inputs	8
Digital Outputs-MOSFET	4
Digital Outputs-DC-Relay	4
Configurable DIOs	8 (Via jump switch DI/O mode)
COM	1
Ground	1
Isolation	3k VDC or 2k Vrms
Sensor Type	Dry contact / wet contact (NPN or PNP)
Input Mode	DI / event counter / frequency
Dry Contact	Off : Open / On : Short to GND
Wet Contact (DI to COM)	Off : 0 – 3VDC / On : 10 – 30VDC
Counter Frequency	Up to 250Hz
Minimum Pulse Width	500 μ sec
Digital Filtering Time Interval	Web GUI configurable
DO Mode	MOSFET Digital , N.O. / COM.
Over-Voltage Protection	45 VDC max.
Rated current	200 mA per channel
Relay Output DO Mode	DC-Relay , N.O. / N.C. / COM.
Operation Voltage	24 VDC
Current Rating	1A per channel
Network Interface/Ethernet	10Base-T / 100Base-TX , RJ-45
Protocols	ARP / TCP/IP / UDP / HTTP / HTTPS / SMTP / FTP / DDNS / NTP / DHCP / LILIN CGI
Security	User Account , HTTPS
IR Control-Sender	1 (3.5mm Phone Jack), NEC protocol compatible
IR Control-Receiver	1 (3.5mm Phone Jack), NEC protocol compatible
Mount Type	TS35
Wiring	I/O cable max. 14 AWG
Operating temperature	-25°C – +50°C (-13°F – 122°F)
Storage temperature	-25°C – +60°C (-13°F – 140°F)
Relative Humidity	0% – 80%
Dimensions	170mm (W) x 60mm (H) x 98mm (D)
Weight	600g
Power Supply	DC12V ±10% / PoE (IEEE 802.3af compliant)
Power Consumption	DC12V, 2.2W / PoE, 2.7W
I/O Status	Web GUI , Get trigger information
Visual Series Connection	Support
Languages	English, Traditional Chinese, Simplified Chinese, Russian, Italian, Hungarian, Korean, French, Turkish, Arabic, Spanish, Japanese

Device Management

Manage edge devices on ONE cloud.

Device Management



Model	DH032	
Device hub	Camera supported	ONVIF IP camera and LILIN IP camera
	NVR & DVR	LILIN NVR and DVR supported
	Number of devices supported	128 devices
	Voice control	Alexa controls for door, gate, NVR, and PTZ
	Remote reboot	IP cameras via LILIN WebSmart PoE switch
	Protocols	ARP / TCP/IP / UDP / HTTP / DDNS / PPPoE / ONVIF Profile S
	Web	Device status
Device cloud	Storage checking	NAV, NVR, IP camera
	Device reboot	NVR, IP camera
	Device portal	Remote device status report
App management	Mobile phone	iOS, and Android Mobile phone supported
	Notification	Device status alarm notification
	CPU	ARM Cortex A9 Processor @ 600 MHz CPU
	Network ports	Gigabit LAN: RJ45 x1
	HDMI output	1920 x 1080P
	Operating temperature	0°C - +45°C
	Power supply	DC 12V, 1.5A / 18W

TV Wall Server

Combined with Navigator Software to manage and output matrix videos. (Used with control center)

NTS1004A: up to 4 monitors output simultaneously.

TV Wall Display Server



Model	NTS1004A
Network video support	LILIN IP camera, LILIN IP camera over HTTPS, LILIN Fisheye camera, LILIN IP speed dome, LILIN DVR/NVR, LILIN DHD recorder, NAV live streaming, P2P live streaming, ONVIF camera, manual RTSP, screen capture, USB video input, picture capture
Chassis	4U Chassis
Network video Format	H.264 / H.265 / MJPEG
Maximum Network Throughput	Upload: up to 500Mbps, Download: up to 500Mbps
Internal HDD / Swap Drive Bay	built-in 1 × 500GB 2.5 Inch SATA SSD (OS), Support up to 3 x 3.5 Inch SATA HDD
Camera name	20 characters
Channel editing	Mouse drag-n-drop
Digital zoom	Yes, ePTZ supported
Privacy Mask	Supported
Remote Live Video	Yes, web and NAV Client
Video output	2 × HDMI port 2.0b (4096 × 2160@60Hz) / 1 × DVI-D / 1 × DisplayPort 1.4, (4096 × 2160@60Hz)
Mosaic TV Wall	4 monitors support up to 96 channels video display in total (480P 15fps)
Split Screen	4, 9, 16, 25, 36
Dual stream technology (Video output)	Multi-channel displays D1 and full screen displays 1080P / 3M / 4M / 5M / 8M / 12M resolution
Multi-screen (Video output)	4 monitors support up to 96 channels in total (480P 15fps)
CPU	Intel® Core™ i9-10900
RAM	32GB (2 × DDR4 16GB)
Chipset	Intel® H410
Display card	1 × GTX 1650 4GB
Ethernet Ports	LAN1: Intel® I225-V with 2.5Gb
Audio (Hardware)	1 x Mic-in, 1 x Line-out
Rear panel USB port	2 x USB 3.1 Gen1 Type-A, 2 x USB 2.0 Type-A
Front panel USB port	2 x USB 3.0
Cooler	2 × 10mm front exhaust fans 2× 80 mm rear exhaust fans
SSD HDD	built-in 1 × 500GB 2.5 Inch SATA SSD (OS) Support up to 3 x 3.5 Inch SATA HDD Note: Do not use WD Purple HDDs for NAV HDD installation. Please use 7200RPM WD Red Pro for non-RAID installation, WD (Gold) Enterprise HDDs for RAID installation, or other Enterprise HDD
Languages	English, Traditional Chinese, Spanish, German, French, Russian, Japanese, Portuguese, Italian, Simplified Chinese, Slovenian, Czech, Hungarian, Turkish, Arabic, Persian, Bengali, Vietnamese
OS	Windows 11 embedded SAC 21H2
Time sync	Daylight saving time by Windows OS
Power Consumption	700W
Power Supply	110V ~ 240V
Operating Temperature	10°C ~ 40°C(50°F ~ 104°F)
Storage Temperature	0°C ~ 70°C(32°F ~ 158°F)
Relative Humidity	10% ~ 90% (non-condensing)
Dimensions	177 (H) × 482 (W) × 650 (D) mm
Color	Black
Weight	35.71 lbs (16.2kg) - Net

Housing for Camera

Extra protection with LED and Vair control.

Housing for Camera



Model	PMH-P2900IW	PMH-P2900I	PMH-P6000124WE
Max Output Power Budget	72 ~ 95W PoE PSE		
Camera Power Input	12VDC or 24VAC		
Power Consumption	Window Heater: 10W Blower: 6W Camera: 6 ~ 8W Wiper: 6 W 24W VAIR LED: 24W		
VAIR Control	RS485 or DIP Switch		
VAIR Beam Angle (Horizontal)	10° ~ 30°		
VAIR LED Array	18 pcs High Power LED		
VAIR Wavelength	850nm		
Power Box / Junction Box	24VAC/144W Power Box/Junction Box		
Body & Sunshield Weight	5.1 kg (11.24 lb)		
Cable Grants	PF 3/4"x2 + M25x1		
Operating Temperature	Working: -20°C ~ 50°C (-4°F ~ 122°F)		

Housing for Camera



Model	PIH-5063	PIH-5040S
Window / Glass Thickness	Φ110 Heat Resistant Glass / 5mm	74(W) x 64 (H) / 5mm
Mounting	Botton	Botton
Material/ Construction	Aluminum	Aluminum
Dimensions	Housing: Φ134 x 318mm (L) Bracket: 211.5mm (L)	140mm(W) x 115mm(H) x 373mm(D)
Weight	2.0kg	1.3kg
Ext. Model	PIH-5063: AC230V (Heater & Blower) , PIH-5064: AC24V (Heater & Blower) , PIH-5067: AC117V (Heater & Blower)	—

Bracket for Camera

To install at various scenarios.

Brackets for Camera



Model		BCR03W	BTR07W	BTR08W	PIH-76WM / PIH-76MMW	BTD04W
Installation	Pendant (Ceiling)	Supported	Supported	-	-	-
	Pole & Corner	-	-	Supported	-	-
	Wall	Supported	Supported (Junction box)	-	Supported	Supported
	Extension	-	-	-	-	-
General	Narrative	Ceiling mounting bracket	Junction box plate	Pole mount bracket for BTD02,BCR02,BTD04	Wall mount for dome & indoor PTZ cameras	Wall mount for dome cameras



Model		BCR02W	BCR04W	BCR05W	BCR06W	BTD02W
Installation	Pendant (Ceiling)	Supported	-	Supported	Supported	Supported
	Pole & Corner	-	-	-	-	-
	Wall	Supported	Supported	Supported	Supported	Supported
	Extension	-	-	-	-	-
General	Narrative	Wall & ceiling mounting bracket for bullet cameras	Wall mount for 22,29,30,36,37,62,63,64,65 SERIES	Wall & ceiling mounting bracket for 68,83,84,88,89 SERIES	Wall & ceiling mounting bracket for 22,29,30,36,37,62,63,64,65 SERIES	Wall & ceiling mounting bracket for bullet cameras



Model		BTR03S	BTR06S	BCD01S	BTE02S	BTE07K
Installation	Pendant (Ceiling)	Supported	Supported	Supported	-	-
	Pole & Corner	-	-	-	-	-
	Wall	-	-	Supported	-	-
	Extension	-	-	-	Supported	Supported

Brackets for Camera



Model		PIH-CPM	BTS02S	PIH-Z6W	PIH-510CPM
Installation	Pendant (Ceiling)	-	-	Supported	-
	Pole & Corner	Supported	Supported	-	Supported
	Wall	Supported	Supported	-	Supported
	Extension	-	-	Supported	-
General	Narrative	Corner / pole mount	Pendant mount with dome mount kit	Extension tube	Pole mount with wall mount



Model		BTD01W	BTS03W	BTS06W
Installation	Pendant (Ceiling)	Supported	-	Supported
	Pole & Corner	-	-	-
	Wall	-	Supported	-
	Extension	-	-	-
General	Narrative	Wall mount for dome cameras	PTZ wall mount	Pendant mount



Model		PIH-520HBW / PIH-5203HBW / PIH-5207HBW / PIH-5208HBW	PIH-520LBW / PIH-5203LB / PIH-5203LBW / PIH-5207LBW / PIH-5208LBW	PIH-520LW
Installation	Pendant (Ceiling)	Supported	-	-
	Pole & Corner	-	-	-
	Wall	-	Supported	Supported
	Extension	-	-	-
General	Narrative	Ceiling mount	PTZ wall mount	Pole mount with wall mount

Applicable Model



Model	21 Series	22/62 Series	25 Series	36 Series	60/32 Series	61/23 Series	63/30 Series	64/29 Series	65 Series	PZD64 Series
BCR03W	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported	Supported
BTR07W	-	Supported	-	Supported	-	-	Supported	Supported	Supported	Supported
PIH-76WM / PIH-76MMW	-	-	-	-	Supported	Supported	-	-	-	-
BTD04W	-	-	-	-	-	-	Supported	Supported	Supported	-



Model	42 Series	70/72 Series	72/42 Series	74/77 Series	81 Series	82 Series	83 Series	84 Series	88/89 Series
BCR02W	-	-	-	-	Supported	Supported	-	-	-
BTD02W	-	-	-	-	-	-	Supported	Supported	Supported
BTR01S	Supported	-	-	-	-	-	-	-	-
BTR03S	-	Supported	-	-	-	-	-	-	-
BTR04S	-	-	-	Supported	-	-	-	-	-
BTR06S	-	Supported	Supported	Supported	-	-	-	-	-
PIH-CPM	-	Supported	-	Supported	-	-	-	-	-

Applicable Model



Model	BCR02W	BTD02W	PIH-76WM PIH-76WMW	BTD04W	PIH-520LW
PIH-CPM	-	-	-	-	Supported
BTS02S	Supported	Supported	Supported	Supported	-
BTR08W	Supported	Supported	Supported	Supported	-
PIH-Z6W	-	-	-	-	-
PIH-510CPM	-	-	-	-	-



Model	PIH-520HBW PIH-5203HBW PIH-5207HBW PIH-5208HBW	BTD01W	BTS03W	BTS06W	PIH-520LBW PIH-5203LB PIH-5203LBW PIH-5207LBW PIH-5208LBW
PIH-CPM	-	-	Supported	-	-
BTS02S	-	-	-	-	-
BTR08W	-	-	-	-	-
PIH-Z6W	Supported	Supported	Supported	Supported	-
PIH-510CPM	-	-	-	-	Supported

Applicable Model



Model	PSD46 Series	PSR55 / PSR50 Series
BTD01W	-	-
BTS03W	Supported	Supported
BTS06W	Supported	Supported
PIH-520HBW PIH-5203HBW PIH-5207HBW PIH-5208HBW	Supported	Supported
PIH-520LBW PIH-5203LB / PIH-5203LBW PIH-5207LBW PIH-5208LBW	Supported	Supported
PIH-520LW	Supported	Supported

Accessories

Infrared Illuminator



Model	IM05108	IM05308	IM05608
Power input	AC100 – 240V		
Power consumption	42W		
Radiant distance	250m	200m	150m
Infrared LED wave length	850nm		
Infrared LED	10°	30°	60°
Infrared LED quantity	24 Units		
Infrared LED power on	Sensor suto control, adjustable control point		
IP rating / Vandal resistant rating	IP67 / -		
Mounting	Ceiling & wall		
Material	Aluminum & polycarbonate		
Dimensions	172(W)×242(H)×102.5(D) / Bracket: 165(W) ×192.5(H)×132(D)mm		
Operating temperature	-40°C – +50°C (-40°F – +122°F)		

USB Microphone



Model		MIC01	MIC02
Function	Power input	5V	-
	Connector	-	Ø 3.5mm straight plug
	Frequency response	30Hz-16kHz	-
	S/N Ratio	> 67 dB	> 58dB
	Operating temperature	-10 – 45°C	-20 – 80°C
General	Dimensions	Base size : Ø80 × 13(H) mm Microphone size : Ø16 × 85(H) mm Max height : 25cm , Cable length : 110cm	Body : 15.5(L) × 25(W) × 19(H) mm Wire : 5M±5%
	Operating temperature	-10 – 45°C	-20 – 80°C
	Applicable	For NVR and NAV recorder (USB2.0)	For IP cameras with Line out



*Specifications are subject to change without notice.
Please contact our regional sales for latest information

Merit LILIN Ent. Co., Ltd.

With over 40 years of experience in the surveillance industry, LILIN is the first ONVIF-compliant camera manufacturer and expert with leading achievements in video transmission and analysis technology. LILIN integrates AIoT applications, edge computing, and security equipment into a total solution for cross-industry applications in industrial and commercial environments such as construction, transportation, shipping, ports, military, retail, office premises, schools, banks, entertainment venues, and factories, as well as adapting product capabilities to meet public facility needs in line with government strategies.

LILIN is committed to providing highly reliable products and services in the field of video integration and event analysis, such as license plate recognition, face recognition, advanced electronic fencing, vehicle, and pedestrian flow detection, social distance detection, mask detection, lost and found, and site safety applications.

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