

**LILIN**

**TAA &  
NDAA**  
COMPLIANT



**2022 | 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 40 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.



### Z Series

p.22

#### Motorized lens with Auto Focus

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



### P Series

p.36

#### Outstanding image quality

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



### Paranomic Series

p.50

#### Ultra wide angle fisheye

Cameras with paranomic views. Vision is unlimited



### Door Stations

p.52

#### Inventory of intercom

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



### PTZ Series

p.54

#### Speed Dome

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



### M Series

p.44

#### 1080p Basic Solution

Identify license plates and trigger relevant peripherals by camera without additional host.



### NVR Series

p.64

#### ARM Network Video Recorder

Linux based host to storage and manage video and events.



## NAV Series

### x86 Network Video Recorder

p.68

Windows based host to storage and manage video and events.



## VMS Series

### Video Management Software

p.72

Running video management features in your devices.



## CMS Series

### Central Management Software

p.74

Running central management features in your device.

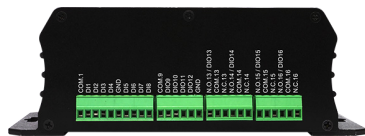


## NCS Series

### x86 Central Management Server

p.76

Windows based host to storage and manage video and events.



## Programmable IO BOX

### Smart IO Hub

p.78

Expands IO capabilities of IP devices.



## Device Management

### Manage all devices on ONE cloud

p.80

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



## Video Decoder

### Retrieve cameras' call and output matrix

p.82

In locations where live video display is required without hosts, the VD022 is a feasible solution.



## TV Wall Server

### Output matrix videos

p.84

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

# Naming Rule

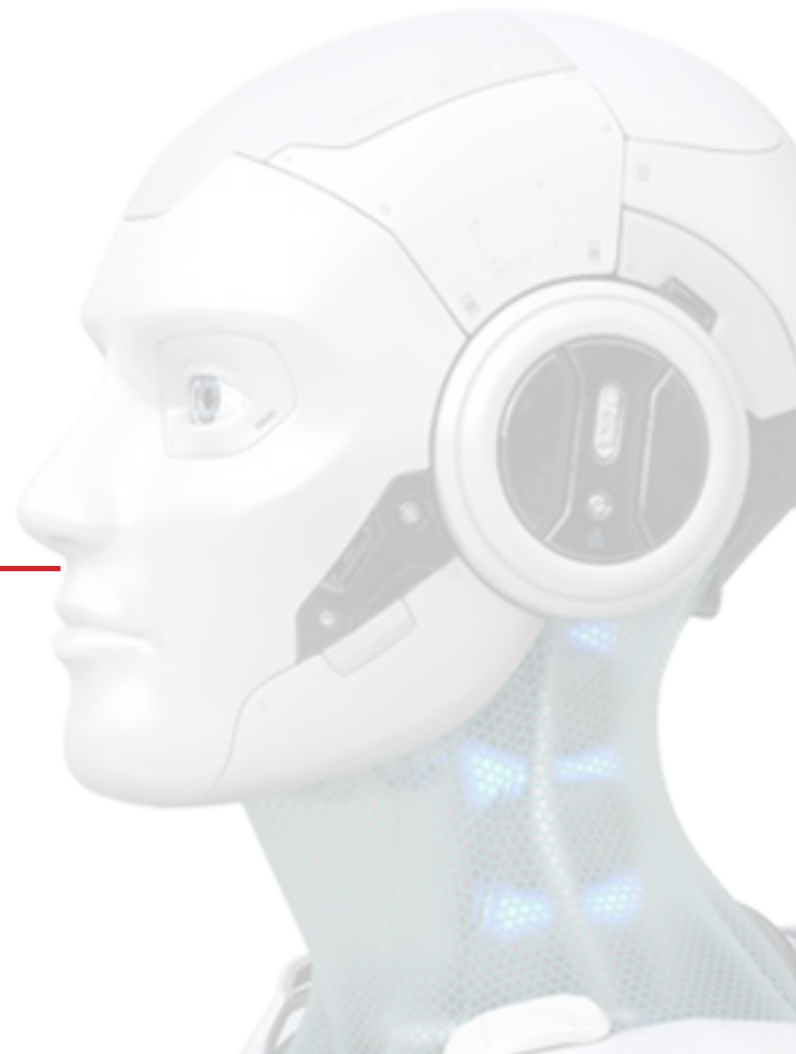
Model Name	Category	Identifier	Description	Identifier	Description	
Z7	P2	Video	<b>IP</b>	H.264 2MP 30fps	<b>Z</b>	H.264 AF 2MP 30fps
			<b>M</b>	H.264 2MP 30fps / 4MP 20fps	<b>ZM</b>	H.264 AF 2MP 30fps / 4MP 20fps
			<b>S</b>	H.264 2MP 60fps	<b>ZS</b>	H.264 AF 2MP 60fps
			<b>UF</b>	H.264 2MP 120fps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

AIDA [*'aida*]

艾達

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

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## 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.



Try now



## Inferencing on Camera

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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.

## Rich behaviors

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

## Use your models

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

## C# & Python Compatible

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

## Amazing SoC Performance

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

## Vulnerability Proof

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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

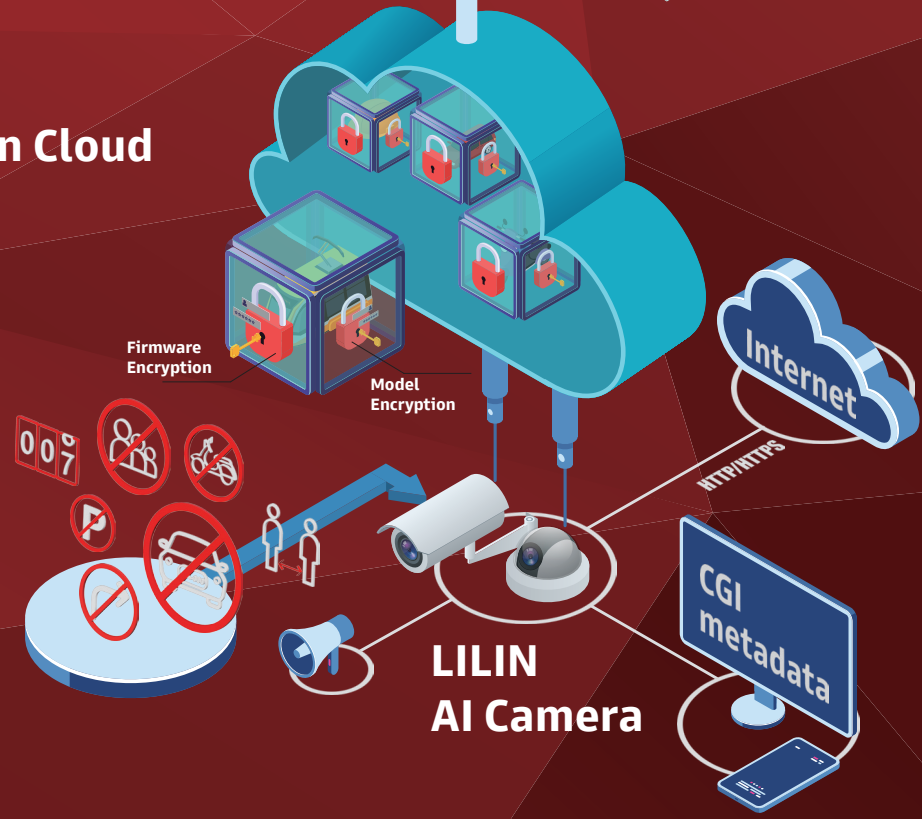
## Fast & Agile

## Easy to deploy



Compatible with  
LILIN AI Cameras

**LILIN  
Self+AI  
Conversion Cloud**



# 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.

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.

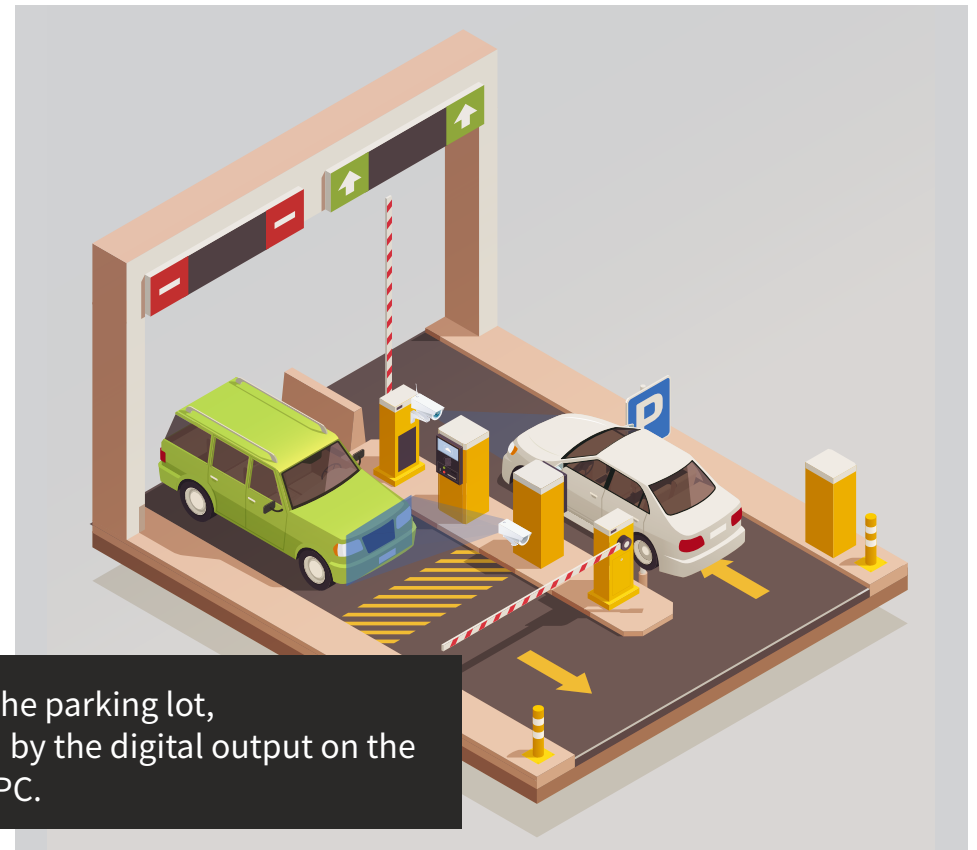


## No more decoding

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

## Scenarios

Limited space  
Limited Bandwidth  
Low-latency applications



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

# AI Cameras



Model	Z7R8182X3-PAI	Z7R8182X2-PAI	Z7R8182X10-PAI	Z7R8082EX25-AI	Z7R8082EX30-AI
Resolution	4K ( D & N )	4K ( D & N )	4K ( D & N )	4K ( D & N )	4K ( D & N )
Focal length	2.8~12mm	6~22mm	5 – 50mm	5.3 (WIDE) – 132.5 (TELE) mm	5.3 (WIDE) – 132.5 (TELE) mm
Aperture	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)	F1.6(Wide) – F4.3(Tele)
Angle of view (H)	108.0° (W) - 31.5° (T)	42.8° (W) - 18.3° (T)	41.8° (W) – 6.4° (T)	60.4°(W) – 2.9°(T)	60.4°(W) – 2.9°(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	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	Color : 0.04 Lux at F1.6 B/W : 0.008 Lux at F1.6	Color : 0.05 Lux at F2.0 B/W : 0.01 Lux at F2.0	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	-	-	-	-	-
Max. IR distance	40M	40M	40M	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
Streams	4	4	4	4	4
Sense up +	Supported	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported	Supported
HDR	Up to 140dB	Up to 140dB	Up to 140dB	Up to 140dB	Up to 140dB
2D WDR	-	-	-	-	-
IVS Basic 1.0	Motion / Tamper	Motion / Tamper	Motion / Tamper	Motion / Tamper	Motion / Tamper
IVS Advanced 2.0	-	-	-	-	-
IVS Advanced 2.1 (Optional)	-	-	-	-	-
Privacy masking	4 zones	4 zones	4 zones	16 zones	16 zones
Digital I/O	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
IP rating / Vandal resistant rating	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)
Power supply	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,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
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
ONVIF	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 •RS-485 supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •RS-485 supported

# Backend AI Server

Don't want to upgrade cameras?

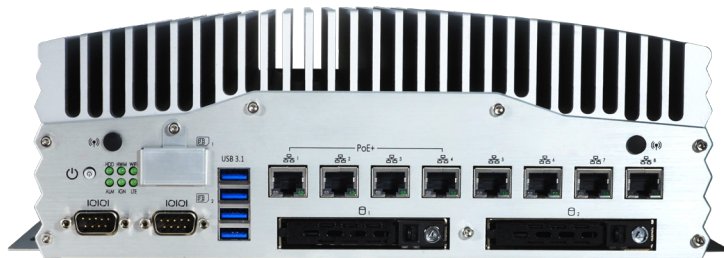
LILIN AIDA Server supports ONVIF cameras to do AI recognition at the backend, also has various features for management.

## 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.



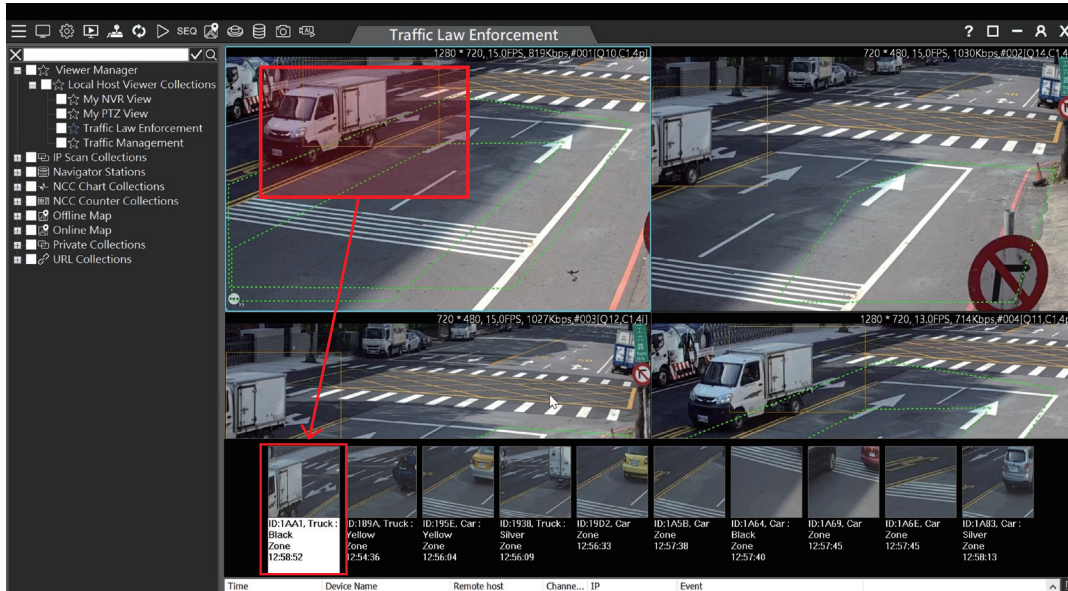
### Low hardware cost

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



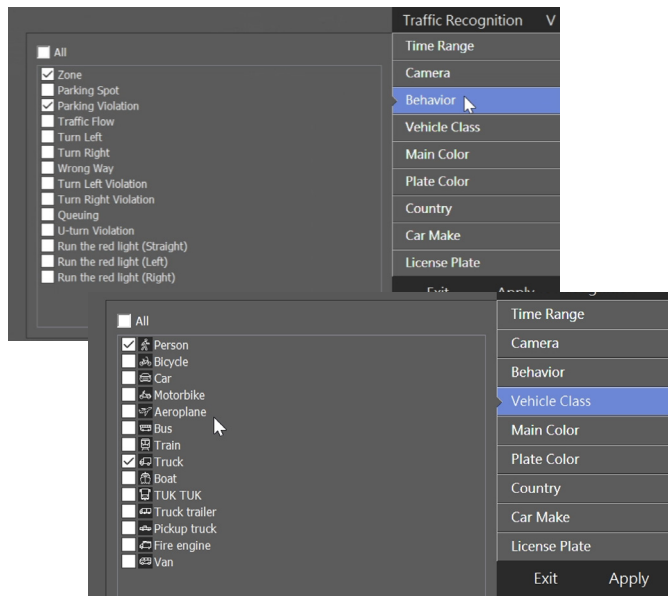
### Larger Storage & Multiple I/Os

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



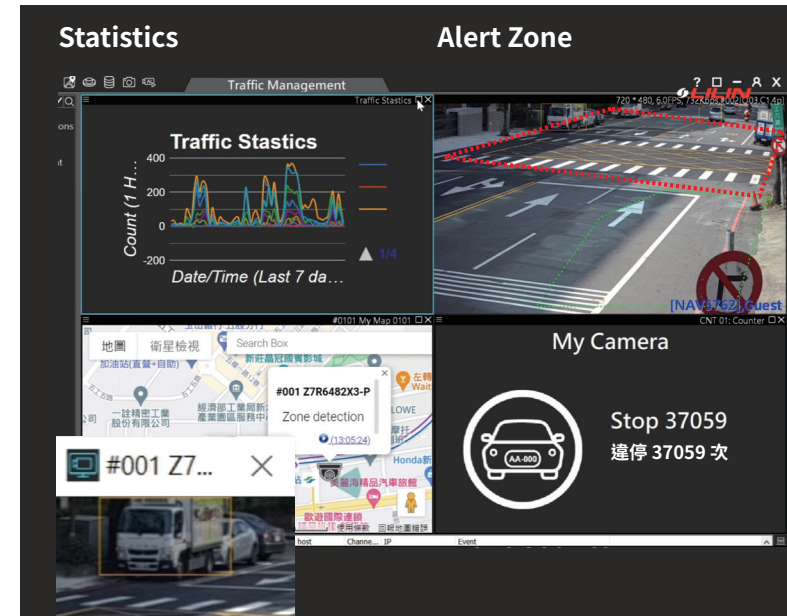
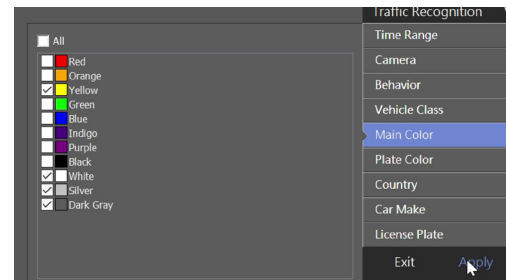
### Snapshots

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



### Search by categories

Filter events by multiple criteria to precisely locate results.



### 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)	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)	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	where x= 2, 4, 6 or 8 the number of recognition cameras	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

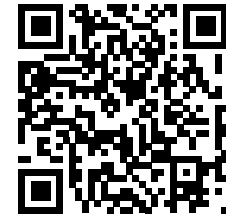
Don't want to upgrade or purchase additional hardware?

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

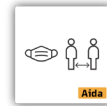
Flexible deploy AI applications in different scenarios.

# Aida Software



Product code	AIANPR	AICarMake
	AIANPRx-AUS: Australia AIANPRx-EUR: Austria, Belgium, Italy, Croatia, France, Turkey, Germany, Spain, Portugal AIANPRx-GBR: UK AIANPR-IDN: Indonesia, AIANPR-IND: India AIANPRx-JPN: Japan AIANPRx-MEA: Saudi Arabia, UAE, Iran, Oman, Dubai AIANPRx-MYS: Malaysia (coming soon) AIANPRx-SEA: Hong-Kong, Macau, Singapore AIANPRx-TWN: Taiwan AIANPRx-USA: 50 states, Guam, and Puerto Rico AIANPRx-VNM: Vietnam (coming soon) AIANPRx-THA: Thailand (coming soon) AIANPRx-BGD: Bangladesh (coming soon) AIANPRx-LKA: Sri Lanka (coming soon) AIANPRx-CAN: Canada (coming soon) x = 1~10 channels	ANPR and Parking Violation with Car Make Recognition of Aston Martin, Audi, Acura, Alfa Romeo, Abarth, Austin Healey, Bentley, BMW, Bugatti, Buick, Borgward, Citroen, Chevrolet, Chrysler, CMC, Cadillac, Corvette, Dodge, Daihatsu, Dennis Eagle, Delorean, DMC, Datsun, Ferrari, Ford, FIAT, Fisker, GMC, Greyhound, Genesis, Gibson, Honda, Hyundai, Holden, Hino, Hummer, Infiniti, ISUZU, IVECO, Jaguar, Jeep, Kia, KenWorth, Lamborghini, Land Rover, Lexus, Lotus, Luxgen, Lincoln, Lotus, Lada, M-Benz, Mahindra, Mustang, Mazda, McLaren, Mini, Mitsubishi, Maserati, Nissan, Mercury, Mopar, Mack, MG, Morgan, Opel, Oldsmobile, Peugeot, Porsche, Pontiac (Firebird), Plymouth, Renault, Rolls-Royce, Rover, Skoda, Smart, Ssangyong, Subaru, Suzuki, SCANIA, Shelby, Saturn, Tesla, Toyota, Tata, Thunderbird, Sunbeam, Spyker, UD, Volkswagen, Volvo, Viper
Camera supported	LILIN cameras (recommended) and ONVIF cameras	LILIN cameras (recommended) and ONVIF cameras
Supported AI engines	Number plate recognition	Car make/brand recognition
Aida processing power capability	Aida power 2 / ch	Aida power 4 / ch
Recognition speed (per server)	6 recogs / sec / ch	4 recogs / sec / ch
Maximum objects recognized in a frame	4 number plates / frame	24 car makes / frame
Zone configuration	4 zones	4 zones
Color recognition	Number plates	Logo
AI recognition resolution requirement	Plate width 100 pixels	Object 120x120 pixels
Object size filter	Yes	Yes
Video resolution	1920 * 1080 or lower	1920 * 1080 or lower
Language supported	English / Traditional Chinese / Japanese / Italian	English / Traditional Chinese / Japanese / Italian
User management with access rights	Three levels	Three levels
Application	Freeway	Traffic management
Recording (optional)	Navigator Corporate	Navigator Corporate

# Aida Software

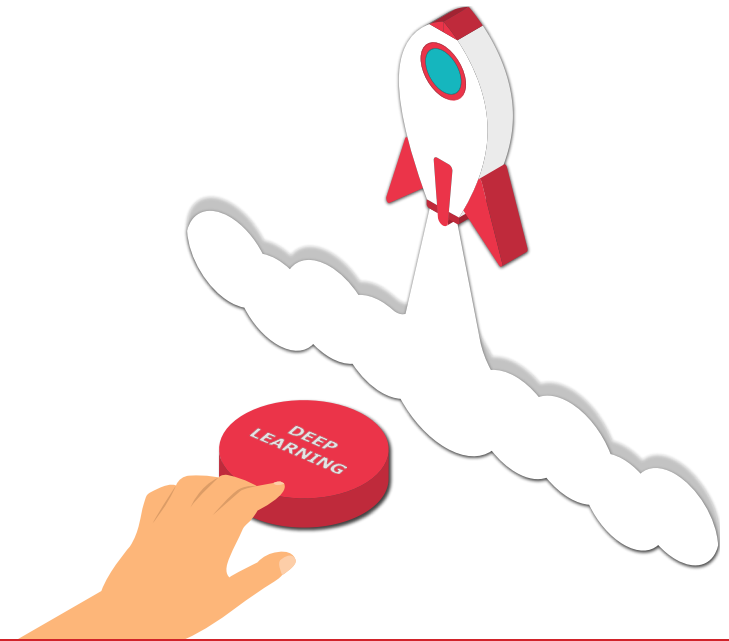


Product code	AICAP	AIMASK	AISAFETY
Features	Person, bicycle, car, motorbike, aeroplane, bus, train, truck, boat, tuktuk, trailer, pickup, fire engine, SUV, van, police car, ambulance	Mask, no mask, improper mask wearing, social distance detection	Person, helmet, no helmet and safety vest
Camera supported	LILIN cameras (recommended) and ONVIF cameras	LILIN cameras (recommended) and ONVIF cameras	LILIN cameras (recommended) and ONVIF cameras
Supported AI engines	Traffic management	Human management	Safety management
Aida processing power capability	Aida power 2 / ch	Aida power 1 / ch	Aida power 1 / ch
Recognition speed (per server)	4 recogs / sec / ch	6 recogs / sec / ch	6 recogs / sec / ch
Maximum objects recognized in a frame	24 objects / frame	24 objects / frame	24 objects / frame
Zone configuration	4 zones	4 zones	4 zones
Color recognition	Traffic objects	Supported	Supported
AI recognition resolution requirement	Traffic object 100x100 pixels	Object 120x120 pixels	Object 120x120 pixels
Object size filter	Yes	Yes	Yes
SDK	Yes	Yes	Yes
Video resolution	1920 * 1080 or lower	1920 * 1080 or lower	1920 * 1080 or lower
Language supported	English / Traditional Chinese / Japanese / Italian	English / Traditional Chinese / Japanese / Italian	English / Traditional Chinese / Japanese / Italian
User management with access rights	Three levels	Three levels	Three levels
Application	Traffic management	Healthcare	Public safety
Recording (optional)	Navigator Corporate	Navigator Corporate	Navigator Corporate

# AI Acceleration Card

Not fast enough? Don't have a powerful PC?

Powered by Intel Movidius Myriad X 2485 processor, LILIN AI VPU Core is a dedicated hardware accelerator for speeding AI deep learning, performing demanding tasks at 2.5W per chip.



## AI VPU

Model	PMH-XM2280
VPU	Intel® Movidius™ Myriad™ X 2485
Amount of VPU	2
Form factor	M.2 2280 B+M key
Supported frameworks	Caffe, TensorFlow
Dimensions	22 x 80 mm
CPU.Memory	4Gb LPDDR4
Thermal	Heatsink with active fan

## VPU

### Video Processing Unit

It is a processor that focuses on image analysis, unlike the CPU, which needs to process programs, and the GPU, which handles image output. It is a new core that separates the CPU from the GPU's mixed processing work.

VPU is born for deep learning purposes, which can effectively reduce the load of CPU and GPU, and more energy-efficient with less physical volume.

# 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

# 27 4K H.265 Camera



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	40M	40M	40M	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 Basic 1.0	Motion / Tamper	Motion / Tamper	Motion / Tamper	Motion / Tamper	Motion / Tamper	Motion / Tamper
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

# Z6 4K H.265 Camera



Model	Z6R6482X3	Z6R8982X3
Resolution	4K ( D & N )	4K ( D & N )
Focal length	2.8~12mm	2.8~12mm
Aperture	F1.6	F1.6
Angle of view (H)	110.8° (W) - 32.8° (T)	110.8° (W) - 32.8° (T)
Pick up element	1/2.8" CMOS	1/2.8" CMOS
Effective pixels	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
FPS at max. resolution	30 FPS	30 FPS
Max. IR distance	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
Streams	3	3
Sense up +	Supported	Supported
3D noise reduction	Supported	Supported
HDR	Up to 120dB	Up to 120dB
2D WDR	Supported	Supported
IVS Basic 1.0	Motion / Tamper	Motion / Tamper
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 / 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
Operating temperature	-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)
Power consumption	DC12V, 9.1W / PoE, 10.3W	DC12V, 8.7W / PoE, 10.1W
Mobile phone	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
ONVIF	ONVIF Profile S	ONVIF Profile S
Others	•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	30M
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 Basic 1.0	-	-	-	-
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	30M	30M	30M	30M
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 Basic 1.0	-	-	-	-
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	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 Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting				
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	40M	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
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 Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting				
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	Z2R8022EX25	Z2R8122X-P
Resolution	5MP (D & N)	5MP (D & N)	5MP (D & N)	1080P (D & N)	1080P (D & N)
Focal length	2.8 – 8 mm	2.8 – 8 mm	2.8 – 12 mm	5.3 – 130 mm	2.8 – 12 mm
Aperture	F1.6	F1.6	F1.4 (W) – F2.8 (T)	F1.6(W) – F4.3(T)	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)	58.5° (W) – 2.8° (T)	98.0° (W) – 33.0° (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	2616 × 1964	2616 × 1964	2616 × 1964	1945 × 1097	1945 × 1097
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	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	25 FPS	25 FPS	25 FPS	60 FPS	60 FPS
Max. IR distance	30M	30M	30M	100M	40M
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 Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting				
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 / 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	IP67 / IK10	IP67 / IK10	IP68 / 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 802.3at)	DC12V ±10% (Terminal connector) / PoE+ (IEEE 802.3at)
Power consumption	DC12V, 7.5W / PoE, 9.8W	DC12V, 7.5W / PoE, 9W	DC12V, 7.5W / PoE, 9W	DC12V, 12W / PoE+, 14W	DC12V, 12.5W / PoE+, 14.5W
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 •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 •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	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	40M	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
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 Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting				
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 802.3at)	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

# ZH/ZM Camera



Model	ZHR6482EX2	ZMR8442X	ZMR8142X-P	ZMR8142X2-P	ZMR7742X
Resolution	4K (D & N)	4MP (D & N)	4MP (D & N)	4MP (D & N)	4MP (D & N)
Focal length	3.6mm – 10mm	2.8 – 8 mm	2.8 – 12 mm	7.0 – 22 mm	2.8 – 8 mm
Aperture	F1.5(W) – F2.8(T)	F1.6	F1.4 (W) – F2.8 (T)	F1.8(W) – F2.8(T)	F1.6
Angle of view (H)	98° (W) – 42° (T)	97.3° (W) – 49.2° (T)	89.3° (W) – 30.4° (T)	42° (W) – 15° (T)	97.6° (W) – 54.0° (T)
Pick up element	1/1.7" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS
Effective pixels	4072 × 3046	2688 × 1520	2688 × 1520	2688 × 1520	2688 × 1520
Min. illumination	Color : 0.5 Lux at F1.5 B/W : 0.05 Lux at F1.5 0 Lux with IR LED ON	Color : 0.4 Lux at F1.6 B/W : 0.08 Lux at F1.6 0 Lux with IR LED ON	Color : 0.2 Lux at F1.4 B/W : 0.04 Lux at F1.4 0 Lux with IR LED ON	Color : 0.3 Lux at F1.8 B/W : 0.06 Lux at F1.8 0 Lux with IR LED ON	Color : 0.4 Lux at F1.6 B/W : 0.08 Lux at F1.6 0 Lux with IR LED ON
FPS at max. resolution / Streams	30 FPS / 4	20 FPS4 / 4	20 FPS / 4	20 FPS / 4	20 FPS / 4
Max. IR distance	30M	30M	40M	40M	40M
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
Sense up + / 3D noise reduction	Supported / Supported	Supported / Supported	Supported / Supported	Supported / Supported	Supported / Supported
HDR / 2D WDR	Up to 100dB / Supported	Up to 100dB / Supported	Up to 100dB / Supported	Up to 100dB / Supported	Up to 100dB / Supported
IVS Basic 1.0	-	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting
IVS Advanced 2.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting	-	-	-	-
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	Motion / Tamper / Network lost detection	Motion / Tamper / Audio / Alarm / Network lost detection	Motion / Tamper / Audio / Alarm / Network lost detection	Motion / Tamper / Audio / Alarm / Network lost detection
IP rating / Vandal resistant rating	IP67 / IK10	IP67 / IK10	IP68 / IK10	IP68 / IK10	IP66 / 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 802.3at)	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC12V, 9.5W / PoE, 10.5W	DC12V, 7.5W / PoE, 8.6W	DC12V, 11.2W / PoE, 12.5W	DC12V, 13W / PoE+, 14W	DC12V, 8.4W / PoE, 10.6W
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
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 •Smart IR control	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card	•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

# ZH/ZM Camera



Model	ZMR7442X-P	ZMR7442X2-P	ZMR6542X	ZMR6442AX-P	ZG1232EX3
Resolution	4MP (D & N)	4MP (D & N)	4MP (D & N)	4MP (D & N)	3MP (D & N)
Focal length	2.8 – 12 mm	7.0 – 22 mm	2.8 – 8 mm	2.8 – 12 mm	3.1 – 9 mm (CS Mount)
Aperture	F1.4(W) – F2.8(T)	F1.8(W) – F2.8(T)	F1.6	F1.4 (W) – F2.8 (T)	F1.3
Angle of view (H)	94.8° (W) – 36.4° (T)	42° (W) – 15° (T)	97.3° (W) – 49.2° (T)	89.3° (W) – 30.4° (T)	99.4° (W) – 34.8° (T)
Pick up element	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/2.8" CMOS
Effective pixels	2688 × 1520	2688 × 1520	2688 × 1520	2688 × 1520	2096 × 1561
Min. illumination	Color : 0.2 Lux at F1.4 B/W : 0.04 Lux at F1.4 0 Lux with IR LED ON	Color : 0.3 Lux at F1.8 B/W : 0.06 Lux at F1.8 0 Lux with IR LED ON	Color : 0.4 Lux at F1.6 B/W : 0.08 Lux at F1.6 0 Lux with IR LED ON	Color : 0.2 Lux at F1.4 B/W : 0.04 Lux at F1.4 0 Lux with IR LED ON	Color : 0.1 Lux at F1.3 BW : 0.01 Lux at F1.3
FPS at max. resolution	20 FPS	20 FPS	20 FPS	20 FPS	15 FPS
Max. IR distance	50M	50M	30M	30M	-
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, 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 100dB	Up to 100dB	Up to 100dB	Up to 100dB	-
2D WDR	Supported	Supported	Supported	Supported	Supported
IVS Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting	Face Detection, Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting
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	Motion / Tamper / Audio / Alarm / Network lost detection	Motion / Tamper / Network lost detection	Motion / Tamper / Audio / Alarm / Network lost detection	Motion / Tamper / Audio / Alarm / Face detection
IP rating / Vandal resistant rating	IP66 / -	IP66 / -	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)	-25°C – +50°C (-13°F – 122°F)
Power supply	DC12V ±10% / PoE+ (IEEE 802.3at)	DC12V ±10% / PoE+ (IEEE 802.3at)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC12V, 13.5W / PoE+, 14.5W	DC12V, 13.5W / PoE+, 14.5W	DC12V, 7.2W / PoE, 8.3W	DC12V, 7.4W / PoE, 9W	DC12V, 7W / PoE, 8W
Mobile phone	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, 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 •P-IRIS supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •P-IRIS supported	•Digital zoom & ePTZ	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •P-IRIS supported	•Digital zoom & ePTZ •Micro SD / SDHC card •Auto Back Focus (One Push) •RS-485 supported



# ZF/ZS Camera



Model	ZFR6422EX3	ZFR8122EX3	ZFR8122EX2	ZSR8122EX3	ZSR8122EX2
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	7.0 – 22 mm	2.8 – 12 mm	7.0 – 22 mm
Aperture	F1.4(W) – F2.8(T)	F1.4(W) – F2.8(T)	F1.8(W) – F2.8(T)	F1.4(W) – F2.8(T)	F1.8(W) – F2.8(T)
Angle of view (H)	90° (W) – 36° (T)	90° (W) – 36° (T)	41° (W) – 14° (T)	90° (W) – 36° (T)	41° (W) – 14° (T)
Pick up element	1/2.86" MOS	1/2.86" MOS	1/2.86" MOS	1/2.86" MOS	1/2.86" MOS
Effective pixels	1944 × 1213	1944 × 1213	1944 × 1213	1944 × 1213	1944 × 1213
Min. illumination	Color : 0.05 Lux at F1.4 B/W : 0.004 Lux at F1.4 0 Lux with IR LED ON	Color : 0.05 Lux at F1.4 B/W : 0.004 Lux at F1.4 0 Lux with IR LED ON	Color : 0.06 Lux at F1.8 B/W : 0.005 Lux at F1.8 0 Lux with IR LED ON	Color : 0.05 Lux at F1.4 B/W : 0.004 Lux at F1.4 0 Lux with IR LED ON	Color : 0.06 Lux at F1.8 B/W : 0.005 Lux at F1.8 0 Lux with IR LED ON
FPS at max. resolution / Streams	Up to 120 FPS / 4	Up to 120 FPS / 4	Up to 120 FPS / 4	60 FPS / 4	60 FPS / 4
Max. IR distance	30M	35M	35M	35M	35M
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
Sense up + / 3D noise reduction	Supported / Supported	Supported / Supported	Supported / Supported	Supported / Supported	Supported / Supported
HDR / 2D WDR	Up to 120dB / Supported	Up to 120dB / Supported	Up to 120dB / Supported	Up to 120dB / Supported	Up to 120dB / Supported
IVS Advanced 2.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting
IVS Advanced 2.1 (Optional)	Unattended Object Detection, Missing Object Detection, Crowd Detection, Loitering Detection, Face Detection	Unattended Object Detection, Missing Object Detection, Crowd Detection, Loitering Detection, Face Detection	Unattended Object Detection, Missing Object Detection, Crowd Detection, Loitering Detection, Face Detection	Unattended Object Detection, Missing Object Detection, Crowd Detection, Loitering Detection, Face Detection	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	Motion / Tamper / Audio / Alarm / Network lost detection	Motion / Tamper / Audio / Alarm / Network lost detection	Motion / Tamper / Audio / Alarm / Network lost detection / IVS	Motion / Tamper / Audio / Alarm / Network lost detection / IVS
IP rating / Vandal resistant rating	IP67 / IK10	IP68 / IK10	IP68 / IK10	IP68 / IK10	IP68 / 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 802.3at)	DC12V ±10% / PoE+ (IEEE 802.3at)	DC12V ±10% / PoE+ (IEEE 802.3at)	DC12V ±10% / PoE+ (IEEE 802.3at)
Power consumption	DC12V, 9.4W / PoE, 11.0W	DC12V, 15.8W / PoE+, 18.8W	DC12V, 15.8W / PoE+, 18.8W	DC12V, 15.2W / PoE+, 16.6W	DC12V, 15.2W / PoE+, 16.6W
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
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S
Others	<ul style="list-style-type: none"> <li>•Digital zoom &amp; ePTZ</li> <li>•Micro SD / SDHC / SDXC card</li> <li>•Defog Function</li> <li>•Smart IR control</li> </ul>	<ul style="list-style-type: none"> <li>•Digital zoom &amp; ePTZ</li> <li>•Micro SD / SDHC / SDXC card</li> <li>•Defog Function</li> <li>•Smart IR control</li> </ul>	<ul style="list-style-type: none"> <li>•Digital zoom &amp; ePTZ</li> <li>•Micro SD / SDHC / SDXC card</li> <li>•Defog Function</li> <li>•Smart IR control</li> </ul>	<ul style="list-style-type: none"> <li>•Digital zoom &amp; ePTZ</li> <li>•Micro SD / SDHC / SDXC card</li> <li>•Defog Function</li> <li>•Smart IR control</li> </ul>	<ul style="list-style-type: none"> <li>•Digital zoom &amp; ePTZ</li> <li>•Micro SD / SDHC / SDXC card</li> <li>•Defog Function</li> <li>•Smart IR control</li> </ul>

# ZM Camera



Model	ZMR8122X-P	ZMR8122X2-P	ZMR8422X	ZMR7722X
Resolution	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)
Focal length	2.8 – 12 mm	7.0 – 22 mm	2.8 – 8 mm	2.8 – 8 mm
Aperture	F1.4 (W) – F2.8 (T)	F1.8(W) – F2.8(T)	F1.6	F1.6
Angle of view (H)	93.1° (W) – 31.4° (T)	41° (W) – 14° (T)	102.3° (W) – 51.6° (T)	94.7° (W) – 57.1° (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	1945 × 1097
Min. illumination	Color : 0.02 Lux at F1.4 B/W : 0.005 Lux at F1.4 0 Lux with IR LED ON	Color : 0.03 Lux at F1.8 B/W : 0.007 Lux at F1.8 0 Lux with IR LED ON	Color : 0.02 Lux at F1.6 B/W : 0.005 Lux at F1.6 0 Lux with IR LED ON	Color : 0.03 Lux at F1.6 B/W : 0.007 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	40M	40M	30M	40M
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
Streams	4	4	4	4
Sense up +	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported
HDR	Up to 100dB	Up to 100dB	Up to 100dB	Up to 100dB
2D WDR	Supported	Supported	Supported	Supported
IVS Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting
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 / Tamper / Audio / Alarm / Network lost detection	Motion / Tamper / Audio / Alarm / Network lost detection	Motion / Tamper / Network lost detection	Motion / Tamper / Audio / Alarm / Network lost detection
IP rating / Vandal resistant rating	IP68 / IK10	IP68 / IK10	IP67 / IK10	IP66 / 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, support 802.3at switch and above)	DC12V ±10% / PoE+ (IEEE 802.3at)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC12V, 11.2W / PoE, 12.5W	DC12V, 13W / PoE+, 14W	DC12V, 7.5W / PoE, 8.6W	DC12V, 8.2W / PoE, 10.1W
Mobile phone	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
ONVIF	ONVIF Profile S	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	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card

# ZM Camera



Model	ZMR7422X-P	ZMR7422X2-P	ZMR6522X	ZMR6422AX-P
Resolution	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)
Focal length	2.8 – 12 mm	7.0 – 22 mm	2.8 – 8 mm	2.8 – 12 mm
Aperture	F1.4(W) – F2.8(T)	F1.8(W) – F2.8(T)	F1.6	F1.4 (W) – F2.8 (T)
Angle of view (H)	90.6° (W) – 36.1° (T)	41° (W) – 14° (T)	102.3° (W) – 51.6° (T)	93.1° (W) – 31.4° (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	1945 × 1097
Min. illumination	Color : 0.02 Lux at F1.4 B/W : 0.005 Lux at F1.4 0 Lux with IR LED ON	Color : 0.03 Lux at F1.8 B/W : 0.007 Lux at F1.8 0 Lux with IR LED ON	Color : 0.02 Lux at F1.6 B/W : 0.005 Lux at F1.6 0 Lux with IR LED ON	Color : 0.02 Lux at F1.4 B/W : 0.005 Lux at F1.4 0 Lux with IR LED ON
FPS at max. resolution	30 FPS	30 FPS	30 FPS	30 FPS
Max. IR distance	50M	50M	30M	30M
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
Streams	4	4	4	4
Sense up +	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported
HDR	Up to 100dB	Up to 100dB	Up to 100dB	Up to 100dB
2D WDR	Supported	Supported	Supported	Supported
IVS Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting			
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 / Tamper / Audio / Alarm / Network lost detection	Motion / Tamper / Audio / Alarm / Network lost detection	Motion / Tamper / Network lost detection	Motion / Tamper / Audio / Alarm / Network lost detection
IP rating / Vandal resistant rating	IP66 / -	IP66 / -	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 802.3at)	DC12V ±10% / PoE+ (IEEE 802.3at)	DC12V ±10% / PoE (IEEE 802.3af)	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC12V, 13.5W / PoE+, 14.5W	DC12V, 13.5W / PoE+, 14.5W	DC12V, 7.2W / PoE, 8.3W	DC12V, 7.4W / PoE, 9W
Mobile phone	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
ONVIF	ONVIF Profile S	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	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •P-IRIS 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



EN50155

Model	P6R6382E2	P6R8882E2	P6R3782E2
Resolution	4K ( D & N )	4K ( D & N )	4K ( D & N )
Focal length	2.8mm	2.8mm	2.8mm
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 : 0.01 Lux at F1.6 0 Lux with IR LED ON
FPS at max. resolution	30 FPS	30 FPS	30 FPS
Max. IR distance	30M	30M	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 120dB	Up to 120dB	Up to 120dB
2D WDR	Supported	Supported	Supported
IVS Basic 1.0	Motion / Tamper	Motion / Tamper	Motion / Tamper
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	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)
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	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

# 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	30M	30M	30M	30M
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 Basic 1.0	-	-	-	-	-	-
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	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 Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Tripwire Detection, Object Counting				
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	30M	30M	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 Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting					
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	-	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 Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting					
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 Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting			
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 Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting				
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

# M Series

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

M - 1080p@30fps, h.264

# M 4MP Camera



Model	MR8442X	MR8342	MR6442X	MR6442AX	MR6342	MR6342A
Resolution	4MP (D & N)	4MP (D & N)	4MP (D & N)	4MP (D & N)	4MP (D & N)	4MP (D & N)
Focal length	2.8 – 12mm	4mm	2.8 – 12mm	2.8 – 12mm	4mm	4mm
Aperture	F1.4	F2.0	F1.4	F1.4	F2.0	F2.0
Angle of view (H)	95° (W) – 33° (T)	84°	95° (W) – 33° (T)	95° (W) – 33° (T)	84°	84°
Pick up element	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/3" CMOS
Effective pixels	2688 × 1520	2688 × 1520	2688 × 1520	2688 × 1520	2688 × 1520	2688 × 1520
Min. illumination	Color : 0.2 Lux at F1.4 B/W : 0.04 Lux at F1.4 0 Lux with IR LED ON	Color : 0.3 Lux at F2.0 B/W : 0.06 Lux at F2.0 0 Lux with IR LED ON	Color : 0.2 Lux at F1.4 B/W : 0.04 Lux at F1.4 0 Lux with IR LED ON	Color : 0.2 Lux at F1.4 B/W : 0.04 Lux at F1.4 0 Lux with IR LED ON	Color : 0.3 Lux at F2.0 B/W : 0.06 Lux at F2.0 0 Lux with IR LED ON	Color : 0.3 Lux at F2.0 B/W : 0.06 Lux at F2.0 0 Lux with IR LED ON
FPS at max. resolution	20 FPS	20 FPS	20 FPS	20 FPS	20 FPS	20 FPS
Max. IR distance	30M	30M	30M	30M	30M	30M
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
Streams	3	3	4	4	4	4
Sense up +	Supported	Supported	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported	Supported	Supported
HDR	Up to 100dB	Up to 100dB	Up to 100dB	Up to 100dB	Up to 100dB	Up to 100dB
2D WDR	Supported	Supported	Supported	Supported	Supported	Supported
IVS Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting					
Privacy masking	4 zones	4 zones	4 zones	4 zones	4 zones	4 zones
Digital I/O	- / -	- / -	- / -	1 / 1	- / -	1 / 1
Event triggers	Motion / Tamper / Network lost detection	Motion / Tamper / Network lost detection	Motion / Tamper / Network lost detection	Motion / Tamper / Audio / Alarm / Network lost detection	Motion / Tamper / Network lost detection	Motion / Tamper / Audio / Alarm / Network lost detection
IP rating / Vandal resistant rating	IP67 / IK10	IP66 / 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)	-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, 8.4W / PoE, 10W	DC12V, 5.2W / PoE, 6.6W	DC12V, 5.4W / PoE, 7W	DC12V, 5.6W / PoE, 7.2W	DC12V, 4.5W / PoE, 5.6W	DC12V, 4.7W / PoE, 5.8W
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
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 •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

# M 4MP&1080P Camera



Model	MR3042	MR3042A	MR6542	MR832B	MR6822
Resolution	4MP ( D & N )	4MP ( D & N )	4MP ( D & N )	1080P ( D & N )	1080P ( D & N )
Focal length	4mm	4mm	4mm	4mm	4mm
Aperture	F2.0	F2.0	F2.0	F2.0	F2.0
Angle of view (H)	84°	84°	80.7°	94°	84.0°
Pick up element	1/3" CMOS	1/3" CMOS	1/3" CMOS	1/2.7" CMOS	1/2.8" CMOS
Effective pixels	2688 × 1520	2688 × 1520	2688 × 1520	1920 × 1080	1945 × 1097
Min. illumination	Color : 0.3 Lux at F2.0 B/W : 0.06 Lux at F2.0 0 Lux with IR LED ON	Color : 0.3 Lux at F2.0 B/W : 0.06 Lux at F2.0 0 Lux with IR LED ON	Color : 0.3 Lux at F2.0 B/W : 0.06 Lux at F2.0 0 Lux with IR LED ON	Color : 0.1 Lux at F2.0 B/W : 0.03 Lux at F2.0 0 Lux with IR LED ON	Color : 0.02 Lux at F2.0 B/W : 0.005 Lux at F2.0 0 Lux with IR LED ON
FPS at max. resolution	20 FPS	20 FPS	20 FPS	30 FPS	30 FPS
Max. IR distance	30M	30M	30M	30M	30M
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
Streams	4	4	4	4	4
Sense up +	Supported	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported	Supported
HDR	Up to 100dB	Up to 100dB	Up to 100dB	-	Up to 100dB
2D WDR	Supported	Supported	Supported	Supported	Supported
IVS Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting				
IVS Advanced 2.0	-	-	-	-	-
IVS Advanced 2.1 (Optional)	-	-	-	-	-
Privacy masking	4 zones	4 zones	4 zones	4 zones	4 zones
Digital I/O	- / -	1 / 1	- / -	- / -	- / -
Event triggers	Motion / Tamper / Network lost detection	Motion / Tamper / Audio / Alarm / Network lost detection	Motion / Tamper / Network lost detection	Motion / Tamper / Network lost detection	Motion / Tamper / Audio detection
IP rating / Vandal resistant rating	- / -	- / -	IP67 / IK10	IP67 / IK10	IP67 / -
Operating temperature	-25°C – +50°C (-13°F – 122°F)	-25°C – +50°C (-13°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, 4.7W / PoE, 5.8W	DC12V, 4.7W / PoE, 5.8W	DC12V, 7.2W / PoE, 8.9W	DC12V, 6W / PoE, 7.5W	DC12V, 4.5W / PoE, 5.5W
Mobile phone	iOS, Android	iOS, Android	iOS, Android	iOS, Android	iOS, Android
Audio capability	-	Two-way Audio, G.711 u-law / PCM / AAC, External Microphone Required	-	-	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
Others	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported	•Digital zoom & ePTZ	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card	•Digital zoom & ePTZ

# M 1080P Camera



EN50155



EN50155



Model	MR6822E2	MR6822AE	MR6822BE	MR6522	MR6522E2
Resolution	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)
Focal length	2.8mm	2.8mm	2.8mm	4mm	2.8mm
Aperture	F1.8	F1.8	F1.8	F2.0	F1.8
Angle of view (H)	109.0°	109.0°	109.0°	84.0°	109.0°
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 : 0.003 Lux at F1.8 0 Lux with IR LED ON	Color : 0.01 Lux at F1.8 B/W : 0.003 Lux at F1.8 0 Lux with IR LED ON	Color : 0.01 Lux at F1.8 B/W : 0.003 Lux at F1.8 0 Lux with IR LED ON	Color : 0.02 Lux at F2.0 B/W : 0.005 Lux at F2.0 0 Lux with IR LED ON	Color : 0.01 Lux at F1.8 B/W : 0.003 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	30M	30M
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
Streams	4	4	4	4	4
Sense up +	Supported	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported	Supported
HDR	Up to 100dB	Up to 100dB	Up to 100dB	Up to 100dB	Up to 100dB
2D WDR	Supported	Supported	Supported	Supported	Supported
IVS Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting				
IVS Advanced 2.0	-	-	-	-	-
IVS Advanced 2.1 (Optional)	-	-	-	-	-
Privacy masking	4 zones	4 zones	4 zones	4 zones	4 zones
Digital I/O	- / -	- / -	- / -	- / -	- / -
Event triggers	Motion / Tamper / Audio detection	Motion / Tamper / Audio detection	Motion / Tamper	Motion / Tamper / Network lost detection	Motion / Tamper / Network lost detection
IP rating / Vandal resistant rating	IP67 / -	IP67 / -	IP6K9K / -	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, 4.5W / PoE, 5.5W	DC12V, 4.5W / PoE, 5.5W	DC12V, 4.3W / PoE, 5.3W	DC12V, 5.7W / PoE, 7.5W	DC12V, 5.7W / PoE, 7.5W
Mobile phone	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
Others	•Digital zoom & ePTZ	•Digital zoom & ePTZ •EN50155 certification	•Digital zoom & ePTZ •EN50155 certification	•Digital zoom & ePTZ	•Digital zoom & ePTZ

# M 1080P Camera



Model	MR6422X	MR6422AX	MR6322A	MR3022A
Resolution	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)
Focal length	2.8 – 12mm	2.8 – 12mm	4mm	4mm
Aperture	F1.4	F1.4	F2.0	F2.0
Angle of view (H)	102° (W) – 34° (T)	102° (W) – 34° (T)	90°	90°
Pick up element	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS	1/2.7" CMOS
Effective pixels	1920 × 1080	1920 × 1080	1920 × 1080	1920 × 1080
Min. illumination	Color : 0.1 Lux at F1.4 B/W : 0.02 Lux at F1.4 0 Lux with IR LED ON	Color : 0.1 Lux at F1.4 B/W : 0.02 Lux at F1.4 0 Lux with IR LED ON	Color : 0.1 Lux at F2.0 B/W : 0.05 Lux at F2.0 0 Lux with IR LED ON	Color : 0.1 Lux at F2.0 B/W : 0.05 Lux at F2.0 0 Lux with IR LED ON
FPS at max. resolution	30 FPS	30 FPS	30 FPS	30 FPS
Max. IR distance	30M	30M	30M	30M
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
Streams	4	4	4	4
Sense up +	Supported	Supported	Supported	Supported
3D noise reduction	Supported	Supported	Supported	Supported
HDR	Up to 100dB	Up to 100dB	Up to 100dB	Up to 100dB
2D WDR	Supported	Supported	Supported	Supported
IVS Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting			
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 / Tamper / Network lost detection	Motion / Tamper / Audio / Alarm / Network lost detection	Motion / Tamper / Audio / Alarm / Network lost detection	Motion / Tamper / Audio / Alarm / Network lost detection
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)	-25°C – +50°C (-13°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, 5.4W / PoE, 7W	DC12V, 5.6W / PoE, 7.2W	DC12V, 4.7W / PoE, 5.8W	DC12V, 4.7W / PoE, 5.8W
Mobile phone	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
ONVIF	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	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card •LDC supported



# M 1080P Camera



Model	MG1022
Resolution	1080P ( D & N )
Focal length	-
Aperture	-
Angle of view (H)	94°
Pick up element	1/2.7" CMOS
Effective pixels	1920 × 1080
Min. illumination	Color : 0.02 Lux at F1.2 B/W : 0.005 Lux at F1.2
FPS at max. resolution	30 FPS
Max. IR distance	-
Compression	H.264 main and high profile, Motion JPEG
Streams	4
Sense up +	Supported
3D noise reduction	Supported
HDR	Up to 100dB
2D WDR	Supported
IVS Basic 1.0	
IVS Advanced 2.0	-
IVS Advanced 2.1 (Optional)	-
Privacy masking	4 zones
Digital I/O	1 / 1
Event triggers	Motion / Tamper / Audio / Alarm / Network lost detection
IP rating / Vandal resistant rating	- / -
Operating temperature	-25°C – +50°C (-13°F – 122°F)
Power supply	DC12V ±10% / PoE (IEEE 802.3af)
Power consumption	DC12V, 3.2W / PoE, 4.4W
Mobile phone	iOS, Android
Audio capability	Two-way Audio, G.711 u-law / PCM / AAC, Built-in Microphone
ONVIF	ONVIF Profile S
Others	•Digital zoom & ePTZ •Micro SD / SDHC / SDXC card

# Paranomic Series

Cameras with paranomic 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 Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting	
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	
IP rating / Vandal resistant rating	IP67 / IK10	IP67 / IK10
Operating temperature	-40°C – +50°C (-40°F – 122°F)	
Power supply	DC12V ±10% / PoE (IEEE 802.3af)	
Power consumption	DC12V, 9.0W / PoE, 10.6W	DC12V, 5.6W / PoE, 6.8W
Mobile phone	iOS, Android	
Audio capability	Two-way Audio, G.711 u-law / PCM / AAC, SIP, Built-in Microphone	
ONVIF	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 Basic 1.0	-	-
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	<ul style="list-style-type: none"> <li>•Digital zoom &amp; ePTZ</li> <li>•Micro SD / SDHC / SDXC card</li> <li>•LDC supported</li> </ul>	<ul style="list-style-type: none"> <li>•Digital zoom &amp; ePTZ</li> <li>•Micro SD / SDHC / SDXC card</li> <li>•LDC supported</li> </ul>

# 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	Supported	Supported	Supported	Supported
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)
IVS Basic 1.0	Motion / Tamper	Motion / Tamper	Motion / Tamper	Motion / Tamper
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)	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)	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	Supported	Supported	Supported	Supported
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)
IVS Basic 1.0	Motion / Tamper	Motion / Tamper	Motion / Tamper	Motion / Tamper
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	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 (Housing)	IP66 / IK10 (Housing)	IP66 / IK10 (Housing)	IP66 / IK10 (Housing)	IP66 / IK10 (Housing)	IP66 / IK10 (Housing)
IVS Basic 1.0	Motion / Tamper	Motion / Tamper	Motion / Tamper	Motion / Tamper	Motion / Tamper	Motion / Tamper
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	PSR5520EX25-C	PSR5520EX30-C	PSR5524X25-C	PSR5524X30-C	PSR5528X25-C	PSR5528X30-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 Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection					
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	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 Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection					
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	IPS4304EA	IPS4308EA	IPS4204EA	IPS4208EA
Resolution	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)	1080P (D & N)
Lens zoom ratio	3X Optical	30X Optical	30X Optical	20X Optical	20X Optical
Focal length	3.35 mm – 10.05 mm	4.3 mm – 129.0 mm	4.3 mm – 129.0 mm	4.7 mm – 117.5 mm	4.7 mm – 117.5 mm
Pick up element	1/2.7" 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	1920 × 1080	1944 × 1224	1944 × 1224	1944 × 1224	1944 × 1224
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)	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)	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	F1.7(W) – F3.0(T)	F1.6 – 32 , Close	F1.6 – 32 , Close	F1.6 – 32 , Close	F1.6 – 32 , Close
FPS at max. resolution	30 FPS	30 FPS	30 FPS	30 FPS	30 FPS
Compression	H.264 Main and High Profile, Motion JPEG	H.264 , Motion JPEG	H.264 , Motion JPEG	H.264 , Motion JPEG	H.264 , Motion JPEG
ePTZ & Digital Zoom	-	16X	16X	16X	16X
Sense Up	Supported	Supported	Supported	Supported	Supported
Electronic shutter speed	Supported	Supported	Supported	Supported	Supported
Digital noise reduction	Supported	Supported	Supported	Supported	Supported
High Dynamic Range	Supported (Up to 100dB)	Supported (Up to 90dB)	Supported (Up to 90dB)	Supported (Up to 90dB)	Supported (Up to 90dB)
Back light compensation	-	Supported	Supported	Supported	Supported
Defog	-	Supported	Supported	Supported	Supported
Electronic Image Stabilization	-	Supported	Supported	Supported	Supported
Privacy masking	-	16 zone	16 zone	16 zone	16 zone
Preset	256	128	128	128	128
Alarm I/O	1 / 1	6 / 1	6 / 1	6 / 1	6 / 1
Schedule setting	Supported	Supported	Supported	Supported	Supported
IP rating / Vandal resistant rating	IP67 / IK10	IP66 / IK10	IP66 / IK10	IP66 / IK10	IP66 / IK10
IVS Basic 1.0	Motion Detection, Tampering Detection, Advanced Motion Detection, Traffic Light Detection, Tripwire Detection, Object Counting	Motion Detection, Audio detection	Motion Detection, Audio detection	Motion Detection, Audio detection	Motion Detection, Audio detection
Operating temperature	-10°C – +45°C (14°F – 113°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 compliant)	PoE+ (IEEE 802.3at compliant) / AC24V ±10%	PoE+ (IEEE 802.3at compliant) / AC100 – 240V ±10%	PoE+ (IEEE 802.3at compliant) / AC24V ±10%	PoE+ (IEEE 802.3at compliant) / AC100 – 240V ±10%
Power consumption	DC12V, 6.0W / PoE, 7.5W	PoE+, 14W (does not support the heater) AC24V, 37W (Heater ON)	PoE+, 14W (does not support the heater) AC100 – 240V, 48W (Heater ON)	PoE+, 14W (does not support the heater) AC24V, 37W (Heater ON)	PoE+, 14W (does not support the heater) AC100 – 240V, 48W (Heater ON)
Mobile phone	iOS, Android	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	Micro SD / SDHC / SDXC card Supported
ONVIF	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S	ONVIF Profile S

# PTZ Camera



Model	IPS5300EA	IPS5304A	IPS5308A
Resolution	1080P (D & N)	1080P (D & N)	1080P (D & N)
Lens zoom ratio	30X Optical	30X Optical	30X Optical
Focal length	4.3 mm – 129.0 mm	4.3 mm – 129.0 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
Effective pixels	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)		0.5 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	F1.6 – Close
FPS at max. resolution	30 FPS	30 FPS	30 FPS
Compression	H.264 , Motion JPEG	H.264 , Motion JPEG	H.264 , Motion JPEG
ePTZ & Digital Zoom	16X	16X	16X
Sense Up	Supported	Supported	Supported
Electronic shutter speed	Supported	Supported	Supported
Digital noise reduction	Supported	Supported	Supported
High Dynamic Range	Supported (Up to 90dB )	Supported (Up to 90dB )	Supported (Up to 90dB )
Back light compensation	Supported	Supported	Supported
Defog	Supported	Supported	Supported
Electronic Image Stabilization	Supported	Supported	Supported
Privacy masking	16 zone	16 zone	16 zone
Preset	128	128	128
Alarm I/O	6 / 1	6 / 1	6 / 1
Schedule setting	Supported	Supported	Supported
IP rating / Vandal resistant rating	- / -	- / -	- / -
IVS Basic 1.0	Motion Detection, Audio detection	Motion Detection, Audio detection	Motion Detection, Audio detection
IVS Advanced 2.0 (Optional 1)	-	-	-
IVS Advanced 2.1 (Optional 2)	-	-	-
Operating temperature	- 10°C – + 50°C ( -14°F – 122°F )	- 10°C – + 50°C ( -14°F – 122°F )	- 10°C – + 50°C ( -14°F – 122°F )
Power supply	PoE+ (IEEE 802.3at compliant)	AC24V ±10%	AC100 – 240V ±10%
Power consumption	PoE+, 14W (does not support the heater)	AC24V, 15.5W	AC100 – 240V, 16W
Mobile phone	iOS, Android	iOS, Android	iOS, Android
Audio capability	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 S	ONVIF Profile S

# PTZ Camera



Model	IPS5200EA	IPS5204A	IPS5208A
Resolution	1080P (D & N)	1080P (D & N)	1080P (D & N)
Lens zoom ratio	20X Optical	20X Optical	20X Optical
Focal length	4.7 mm – 117.5 mm	4.7 mm – 117.5 mm	4.7 mm – 117.5 mm
Pick up element	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
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)	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	F1.6 – 32 , Close
FPS at max. resolution	30 FPS	30 FPS	30 FPS
Compression	H.264 , Motion JPEG	H.264 , Motion JPEG	H.264 , Motion JPEG
ePTZ & Digital Zoom	16X	16X	16X
Sense Up	Supported	Supported	Supported
Electronic shutter speed	Supported	Supported	Supported
Digital noise reduction	Supported	Supported	Supported
High Dynamic Range	Supported (Up to 90dB )	Supported (Up to 90dB )	Supported (Up to 90dB )
Back light compensation	Supported	Supported	Supported
Defog	Supported	Supported	Supported
Electronic Image Stabilization	Supported	Supported	Supported
Privacy masking	16 zone	16 zone	16 zone
Preset	128	128	128
Alarm I/O	6 / 1	6 / 1	6 / 1
Schedule setting	Supported	Supported	Supported
IP rating / Vandal resistant rating	- / -	- / -	- / -
IVS Basic 1.0	Motion Detection, Audio detection	Motion Detection, Audio detection	Motion Detection, Audio detection
IVS Advanced 2.0 (Optional 1)	-	-	-
IVS Advanced 2.1 (Optional 2)	-	-	-
Operating temperature	- 10°C – + 50°C ( -14°F – 122°F )	- 10°C – + 50°C ( -14°F – 122°F )	- 10°C – + 50°C ( -14°F – 122°F )
Power supply	PoE+ (IEEE 802.3at compliant)	AC24V ±10%	AC100 – 240V ±10%
Power consumption	PoE+, 14W (does not support the heater)	AC24V, 15.5W	AC100 – 240V, 16W
Mobile phone	iOS, Android	iOS, Android	iOS, Android
Audio capability	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 S	ONVIF Profile S

# 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 12TB supported)	2 × 3.5" HDD (Up to 12TB supported)	2 × 3.5" HDD (Up to 12TB 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	<ul style="list-style-type: none"> <li>•WS-Discovery</li> <li>•P2P supported</li> <li>•S.M.A.R.T monitoring</li> <li>•External USB GPS time sync</li> <li>•Chrome, Edge, Firefox, IE, Opera, Safari supported</li> <li>•4 Port PoE, automatic network camera plug and play</li> <li>•GPS communications</li> </ul>	<ul style="list-style-type: none"> <li>•WS-Discovery</li> <li>•P2P supported</li> <li>•S.M.A.R.T monitoring</li> <li>•External USB GPS time sync</li> <li>•Chrome, Edge, Firefox, IE, Opera, Safari supported</li> <li>•8 Port PoE, automatic network camera plug and play</li> <li>•GPS communications</li> </ul>	<ul style="list-style-type: none"> <li>•WS-Discovery</li> <li>•P2P supported</li> <li>•S.M.A.R.T monitoring</li> <li>•External USB GPS time sync</li> <li>•Chrome, Edge, Firefox, IE, Opera, Safari supported</li> <li>•16 Port PoE, automatic network camera plug and play</li> <li>•GPS communications</li> </ul>

# NVR Recorders



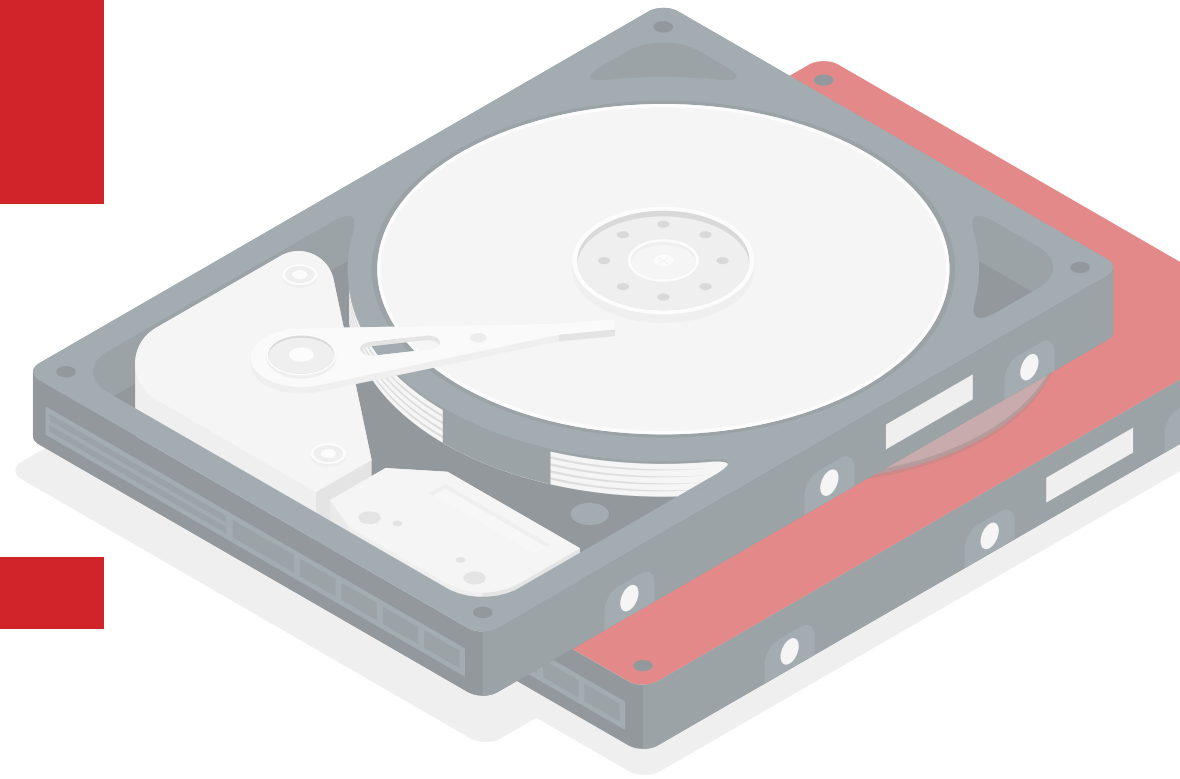
<b>Model</b>	<b>NVR5416</b>
Type	4K
IP video input	16 CH
Max Frame Rate	480 FPS
Max network throughput	96Mbps
HDD disk	4 × 3.5" HDD (Up to 12TB supported)
External storage	-
Resolution	4K / 5M / 4M / 3M / 1080P / 1.3M / 1M / 960H / D1 / VGA / CIF
Backup	USB flash disk / HTTP / FTP
Output	HDMI 2.0 (4K 60P) / VGA 1080P
Alarm/event	DI × 16 and DO × 1 (With programmable condition)
Remote controller	Remote controller addressable up to 255 NVRs (Optional)
Ports	RJ-45 Gigabit Ethernet × 1
Protocol	ARP / TCP/IP / UDP / HTTP / HTTPS / SMTP / SNMP / FTP / DDNS / PPPoE / NTP / RTP / RTSP / DHCP / ONVIF Profile S
Keyboard	PIH-931D (Connector box required)
Audio out	RCA × 1 (0.7Vp-p, 300 Hz to 3KHz)
Web access	Live / playback / backup / menu configuration / event log
Mobile phone	iOS / Android supported
Multi-language	Arabic, Traditional Chinese, Simplified Chinese, English, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Turkish
Operating temperature	0°C ~ 45°C
Dimension (W×L×H)	360 × 316 × 60 mm
Power supply	Adapter DC 12V, 7A, 84W × 1
Others	<ul style="list-style-type: none"> <li>•WS-Discovery</li> <li>•P2P supported</li> <li>•S.M.A.R.T monitoring</li> <li>•External USB GPS time sync</li> <li>•Chrome, Edge, Firefox, IE, Opera, Safari supported</li> <li>•GPS communications</li> </ul>

# Storage Calculator

Wondering how much storage size / bandwidth is enough?



Online Calculator



# 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	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	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 1.2, (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 x DDR4 16GB)
Chipset	Intel® H410
Display card	1 x Nvidia RTX-3060
SSD / HDD	built-in 1 x 500GB 2.5" SATA SSD (OS) built-in 1 x 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) x 482 (W) x 650 (D) mm
Weight	35.27 lbs (16.0kg)

# Mask Recognition Recorder



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	100x100 pixel
Minimum face photo pixel requirement	1080P (30fps)
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 x 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

# VMS

Video Management Software



# Navigator 3.0 VMS



Model	NAV Corporate
OS	Windows 10 64 bit (Version 1809 and above), Windows 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	Schedule recording / Alarm recording / Manual recording
Record Options	No recording, record main stream, record substream, record dual stream, low bitrate recording mode
POS, access	Supported
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	ONVIF PTZ
Digital watermark	DVR/DHD/NVR and NAV backup watermark checker
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
POS, access	Supported
eMap	Supported
Audio capability	2-way
2x2 TV wall & decoder TV wall	Supported
NVR P2P connection	Supported
NAV control center	Supported

# CMS

Central Management Software

# Navigator 3.0 CMS



Model	Control Center 3.0	View Manager 3.0
OS	Windows 10 64 bit (Version 1809 and above), Windows Server 2012R2, 2016	
Channel max	1~144	
Split screen	1~144, User-defined	
Playback Compression	H.265/ H.264 /JPEG	
Support ONVIF IPC	Authorized use	-
LDAP/AD Management	-	-
User Management	Camera access and function access right manageable	
NAV recording Server Management	Manage up to 4096 NAV Corporate servers	-
IP Device Management	Simultaneously controls up to 65000 LILIN IP cameras, IP speed domes, DVR/DHD/NVR and NAV Live servers	-
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	
Groups of Alarm Triggering	Yes, PTZ presets, digital output, and CGI commands	-
Live IP Video Input	Supports up to 12M video stream	
Fisheye Dewarp	Support Immersion 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	DVR/DHD/NVR and NAV backup watermark checker	
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	Yes, Google map tracking for fleet management	-

Alarm Triggering	Full screen alarm, PC alarm sound, DO output for designated IP camera alarm, e-mail snapshot output, PTZ preset position output, acknowledgment to TV wall, blinking mark at e-Map	-
Database Manager	Various alarm event, screen and network failure, login and logout, operational event table	-
	<b>Control Center 3.0</b>	<b>View Manager 3.0</b>
Statistics Report	HTML5 statistics report embedded into view manager up to 64 charts	-
Global Counter	Embedded into view manager up to 64 counters	-
NAV Operation Status	CPU, connection & recording status, HDD status	-
RAID Failure Notification	Supported	-
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	-
Import View From Client to TV Wall	Supported	-
Display One Camera Over Several Monitor	Supported	-
Sequence Mode	Supported	-
Online / Offline maps	Up to 128 online maps and 128 offline maps	-
eMap Online Maps	Google map and Baidu map up to 128 eMap, GPS devices supported, can show real time position of mobile NVR with GPS, support car tracking and focus on car function	-
eMap Offline Map File	JPEG format supported	-
eMap Camera Marks	Up to 5000 camera marks per online map. Up to 500 camera marks per offline map.	-
eMap Live Monitoring	Up to 64 live videos per map. Pop-up live video on alarm in the map.	-
(eMap )Auto Switch to the Map of Alarm Event	Supported	-
eMap Alarm Snapshot	Motion detection / external alarm / audio detection alarm / face detection / face recognition alarm/ LPR alarm	-
GPS Route Tracking	LILIN GPS devices supported to track the routes.	-
Website Connection	Support display website or third party company system use (based on Chrome browser) up to 64 url	-
Sync Server Setting	Can synchronize eMaps, user accounts, ANPR, Face Recognition, NAV and ViewManager data	-

# 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	
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	
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 $\mu$ 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 $\pm$ 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

# Video Decoder

Re-generate cameras' recalls and events to perform a matrix video output.

# Video Decoder



<b>Model</b>	<b>VD022</b>	
<b>Type</b>	1080P	
<b>IP video supports</b>	Video inputs	16CH( IP camera or NVR/DVR )
	Network throughput	36Mbps
	Resolution	1080P/ 1.3M/ 1M/ 960H / D1 / VGA / CIF
<b>Matrix</b>	Video input	IP camera recall / NVR or DVR recall / virtual matrix
	Remote playback	Yes
<b>Alarm</b>	Alarm mode	Remote IP camera's or NVR's external alarm / motion detection
<b>Video output</b>	HDMI output	1920 x 1080P
	Backlight saving	LCD backlight saving mode
	Multi-touch	USB multi-touch screen
<b>Multiplexer</b>	Multiplexer	Freeze
	Split screen	1, 4, 9, 16
	Digital zoom	64x on live and NVR playback
<b>Accessories</b>	Remote controller	Supported
	Ptz protocol	LILIN MLP1/2 over HTTP
	Keyboards	PIH-931D keyboard
	Audio out	RCA x 1
<b>Network</b>	Protocols	ARP / TCP/IP / UDP / HTTP / SMTP / FTP / DDNS / PPPoE / RTSP / RTCP / ONVIF Profile S
	Web	Live / event log
<b>Others</b>	Multilanguage	English / Traditional Chinese / German / Italian / Portuguese / Spanish / French / Turkish / Hungarian / Polish / Russian / Arabic / Simplified Chinese
<b>Power</b>	Power	DC12V/ 1.5A ,18W
	Working environment	Temp: 0°C - +50°C / Humidity: 0% - 80%

# 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 × 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 × Mic-in, 1 × Line-out
Rear panel USB port	2 × USB 3.1 Gen1 Type-A, 2 × USB 2.0 Type-A
Front panel USB port	2 × 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 × 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)		

# Bracket for Camera

To install at various scenarios.



# Brackets for Camera



Model		BCR03W	BTR07W	BTR-08W	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	BTR08W	PIH-Z6W	PIH-510CPM
Installation	Pendant (Ceiling)	-	-	-	Supported	-
	Pole & Corner	Supported	Supported	Supported	-	Supported
	Wall	Supported	Supported	-	-	Supported
	Extension	-	-	-	Supported	-
General	Narrative	Corner / pole mount	Pendant mount with dome mount kit	Pole mount bracket	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-76MMW	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	IPS21 Series	IPS31 Series	IPS41/42/43 Series	IPS51/52/53 Series
BTD01W	-	-	Supported	Supported	-	Supported
BTS03W	Supported	Supported	-	-	Supported	-
BTS06W	Supported	Supported	-	-	Supported	-
PIH-520HBW PIH-5203HBW PIH-5207HBW PIH-5208HBW	Supported	Supported	-	-	Supported	-
PIH-520LBW PIH-5203LB / PIH-5203LBW PIH-5207LBW PIH-5208LBW	Supported	Supported	-	-	Supported	-
PIH-520LW	Supported	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

# LILIN HomeApp

Easy access to all LILIN ip devices.





## Easy access to NVRs

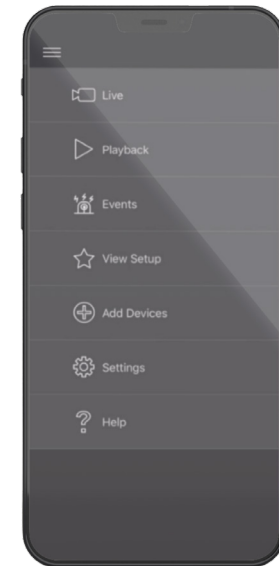
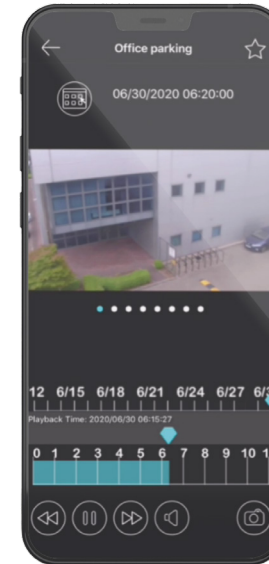
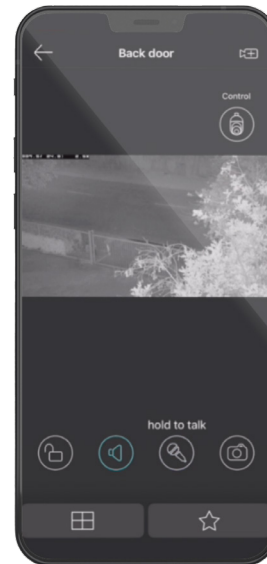
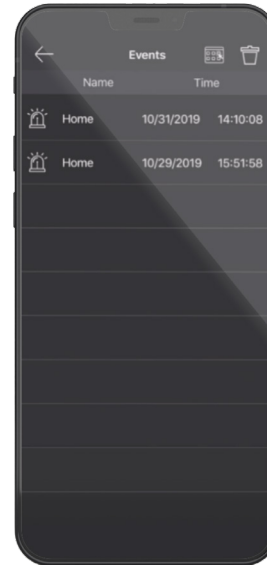
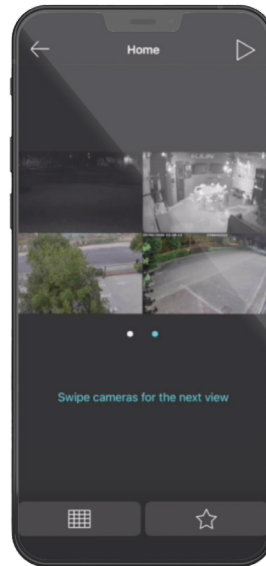
LILINHome App is designed for accessing live video and recording for LILIN NAVs VMS, NVRs, and cameras. Two-way audio, push notification, digital output control, and PTZ control are supported by the App. Easy configuration for LILIN P2P NVR is supported, no complicate camera settings. Secured credentials stored and cloud configurations are also supported.

- No cameras of NVRs configuration needed
- No window division configuration needed
- Designed for end users accessing NVR



### iOS & Android Compatible

To control all the LILIN IP devices, anytime & anywhere.





\*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.

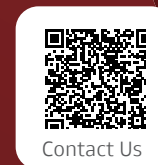
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