

IPC-HDBW7842E1-Z-X

8MP IR Dome WizMind Network CAMERA





WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS,NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

Driven by deep learning algorithms WizMind X Series network camera supports various intelligent functions, meeting the requirements of a wide variety of scenes. The camera can accurately recognize people, motor vehicles and non-motor vehicles. It also supports face recognition, PPE detection, smart sound detection, privacy protection, ANPR, and parking space management. 2 intelligent functions can be enabled at the same time. The camera adopts advanced image processing AI-Powered Image technology, has a high frame rate and the Deeplight night vision effect, and works with ultra-low streams. It is also dustproof, waterproof and vandal-proof, and is certified as IP67 and IK10 (the type of protection varies depending on

Functions

the model).

AI-Powered Image

With AI ISP technology, the camera is able to easily adapt to scenes, producing high quality images that reveal the fine details of targets.

Video Metadata

With deep learning algorithm, Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes. The camera can count targets by directions (A>B, B>A, or A<>B), and export the report.

Cyber Security

Network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

- 8-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 × 2160)@50/60 fps.
- Built-in IR LED, and the max. illumination distance is 40 m.
- ROI, flexible coding, applicable to various bandwidth and storage environments.
- Two intelligent functions can be enabled at the same time, such as face recognition+people counting, face detection+people counting and PPE Detection+IVS.
- With deep learning algorithm, it supports: face recognition, face detection, IVS, people counting, video metadata, PPE Detection, parking space management and ANPR, etc.
- Privacy Protection: Mosaics can be automatically placed over the face or body of a person to protect their privacy.
- Built-in Hi-Fi large-diameter speaker covers an auditory range of 20 meters
- Sound Management: With its built-in dual MICs and noise reduction algorithms, the camera supports the sound management function, using it to collect vocals, adaptively reduce noise, and filter non-human voices
- Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485; BNC; supports max. 512 G
 Micro SD card.
- Built-in dual MICs; 1-ch speaker; support two-way talk.
- 12 VDC/24VAC/PoE+ (802.3at)/ePoE power supply, 12 VDC power output, max. current 165 mA and peak current is 700 mA, easy for installation.
- IP67 and IK10 protection, Anti-Corrosion coating (optional).



Parking Space Management

With Parking Space Management, the camera can count the number of parked vehicles and parking spaces available in open parking lots and planned parking lots. It can extract and display the status of parking spaces, so as to facilitate the management of parking spaces and improve parking efficiency.

Privacy Protection

Privacy Protection technology can mask the detected face and human body to protect the privacy of some special targets.

ANPR

With high-performance GPU chip, deep learning algorithm, and lots of sample training learning, ANPR technology can automatically collect and recognize the vehicle information, including license plate, logo, vehicle type, and vehicle color.

PPE Detection

With the PPE Detection function, the camera can detect attributes including workwear, hat,face mask,apron,gloves,shoe covers, boots, seatbelt, safety vest, and determine whether PPE requirements are met. Match attributes alarm or mismatch attributes alarm can be triggered according to the alarm settings.

Protection (IP67, IK10, Wide Voltage)

outdoor environment with instable voltage.

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to

Technical Specification

Camera

Image Sensor	1/1.8" CMOS
Max. Resolution	3840 (H) × 2160 (V)
ROM	8 GB
RAM	4 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s
Min. Illumination	0.0006 lux@F1.2 (Color, 30 IRE) 0.0003 lux@F1.2 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	Up to 40 m (131.23 ft) (IR)
Illuminator On/Off Control	Auto
Illuminator Number	3 (IR LED)
Angle Adjustment	Pan: 0-355° Tilt: 0-90° Rotation: 0-355°

Lens

Lens Type	Motorized vari-focal
Lens Mount	ф16
Focal Length	2.7 mm-12 mm
Max. Aperture	F1.2
Field of View	H: 105°–48°; V: 55°–27°; D: 124°–55°
Iris Control	Auto
Iris Control Type	P-Iris
Close Focus Distance	1.8 m (5.91 ft)

Lens	Detect	Observe	Recognize	Identify
W	87.6 m	35 m	17.5 m	8.8 m
	(287.40 ft)	(114.93 ft)	(57.41 ft)	(28.87 ft)
Т	186.6 m	74.6 m	37.3 m	18.7 m
	(612.20 ft)	(244.20 ft)	(122.38 ft)	(61.35 ft)

*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.

Smart Event

DORI Distance

Smart Event	
IVS	Abandoned object; missing object
Intelligence	
EPTZ	Yes
IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection; privacy protection
Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face or one inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting; privacy protection
Face Recognition	There are two modes: General mode and counting mode. General mode: Face detection; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face or one inch photo; snapshot strategies (recognition priority and optimization snapshot); face angle filter; optimization time setting; privacy protection. Supports adding 5 group face databases; registering person one by one or in batches; setting face similarity; and supports face comparison with the face database containing up to 200,000 face pictures. Counting mode: Offers advanced customer counter, filters out specified faces from the face database, and exports reports both before and after removing duplicate faces.
PPE Detection	Triggers alarms when the detected object matches or does not match all of the configured attributes (workwear,hat,face mask,apron,gloves,shoe covers,boots,seatbelt,safety vest); privacy protection
People Counting	Tripwire people counting, generating and exporting report (day/week/month/year); people counting in area and queue management, generating and exporting report (day/week/month); 4 rules can be set for tripwire people counting, people counting in area and queue management; privacy protection
Heat Map	Yes
ANPR	ANPR: ANPR, track, priority, snapshot. Vehicle attributes: License plate, vehicle type, vehicle color. Other attributes: Seat belt, smoking, calling. Suppor up to 10,000 blocklist records and 10,000 allowlist records. The camera can recognize plate numbers of vehicles moving at speeds of up to 60km/h.
Parking Space Management	Parking Space Management: Manage outdoor and planned parking lots; manage parking spaces in multiple areas; display the total number of parking spaces and parking spaces that are available; trigger alarms based

on a predefined number of vehicles.

March M					
Valen Metalata			LDC	Yes	
Mate	op Lid se Video Metadata fo or	optimal face snapshot upload.Motor vehicle attributes:	Audio		
Part		seatbelt, smoking, and calling.Generates flow statistics	Built-in MIC	Dual MICs	
Suburi year and color, bugs hat year and more last privary protection Survey prote		on the direction, and exports reports.Non-motor vehicle	Built-in Speaker	Yes	
Modify and \$50 and \$		bottom type and color, bag, hat, gender and umbrella.	Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723	
Video Compression			Alarm		
Video Video Compression IL 265.1 A26.1 A26.4 A26.4 B26.9 MPEG (Only supported by the sub stream) Alarm Event. Secretary with a stream problem, goal stream problem, goal stream problem, goal stream problem, goal stream, goal goal goal goal goal goal goal goal	Smart Search				
Maint Codec	Video		Alarm Event	detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; parking space management; scene changing; audio detection;	
Defail:	Video Compression				
Wides Frame Rate Main Stream: 380 At 1260@L-25/30 fbp Schotzmin 1920 L1880@Cl-25/30 fbp Firth of stream: 1920 At 1880@Cl-25/30 fbp Firth of stream: 1920 At 1880@Cl-25/30 fbp Fifth of stream: 1920 At 1880@Cl-25/30 fbp Fifth of stream: 2020 At 1880@Cl-25/30 fbp Schotzmin 1920 At 1880@C	Smart Codec	Smart H.265+; Smart H.264+			
Third stream: 190 × 10818e(1-25/36 fpc) Fifth stream: 1904 × 1808e(1-25 fpc)/704 × 480e(1-3 fpc) Fifth stream: 1904 × 180e(1-35 fpc)/704 × 480e(1-3 fpc) Fifth stream: 1904 × 190e(1-35 fpc)/704 × 480e(1-3 fpc) Fifth stream: 1904 × 190e(1-35 fpc) SOK and API SOK API		Main Stream: 3840 × 2160@(1–25/30 fps)			
Fifth stream: 704 x 576@(1-25 fos)/704 x 480@(1-30 fos) Fifth farem Rate: Main Stream: 3404 x 2160@(1-50/60 fos) Fifth farem Rate: Main Stream: 3404 x 2160@(1-50/60 fos) Sub stream: 1970±1000@(1-75/30 fos) Stream: 1970±1000@		Third stream: 1920 × 1080@(1–25/30 fps)	Network		
High Frame Rate Ministream 3840 x 21608(1-50/60 fox) Sub stream: 1920x1080@(1-25/30 fox) Network Protocol Network Pro	Video Frame Rate	Fifth stream: 704 × 576@(1–25 fps)/704 × 480@(1–30	Network Port	RJ-45 (10/100/1000 Base-T)	
Sub stream: 1920x1080@(1-25/30 fps)		High Frame Rate:	SDK and API	Yes	
Milesperatury Milesperatur	Stream Capability	Sub stream: 1920×1080@(1–25/30 fps)	Network Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP;	
Resolution 33M (2304 x 1296) 1080p (1302 x 1080p); 1.3M (1308 x 200 (701a) bandwidth: 340 M) 5torage FTP;SFTP; Micro SD card (support max. 512 GB); NAS			Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P	
Storage FFP,5FP, Micro SD card (support max. 512 GB), NAS Bit Rate Control CBR/VBR Video Bit Rate H.264: 32 kbps-16384 kbps; H.264: 12 kbps-12800 kbps Day/Night Auto(iCR)/Color/B/W BLC Yes Management Software SmartPSS Lite; DSS; DMSS BLC Yes Mobile Client iOS, Android Configuration encryption, Trusted execution; Digest/Security logs; MSSSE, Account lockout; sysiog; Video encryption, BDC, 1; iP/MAC WDR 120 dB Configuration encryption, Trusted execution; Digest/Security logs; MSSSE, Account lockout; sysiog; Video encryption, BDC, 1; iP/MAC (SSA) Yes White Balance Auto, natural; street lamp; outdoor; manual; regional custom Value Certification Certification Certification Certification Certification Certification Certification Certification Certification OFF/ON (4 areas, rectangular) Port Region of Interest (Rol) Yes (4 areas) Image Stabilization Electronic Image Stabilization (EIS) Audio Input 1 channel (RCA port) Audio Output 1 channel (RCA port) Alarm Input 3 channels in: wet contact, 5mA 3V–5V DC Alarm Output 1 channel (CVBs output; max. current 165 mA, peak Privacy Masking 8 areas Storage PFP,5FP; Micro SD card (support max. 512 GB), NAS BIC (Arrow Fife (Arrow Exchanged Stabilization (EIS) Analog Output 1 channel (CVBs output; max. current 165 mA, peak	Resolution	3M (2304 × 1296) 1080p (1920 × 1080); 1.3M (1280 ×	User/Host	20 (Total bandwidth: 340 M)	
Nideo Bit Rate H.264:32 kbps-16384 kbps; H.264:12 kbps-12800 kbps Browser Chrome: Chrome: 88.0.4324.190 and later; Firefox: Firefox 47.0.2 and later Firefox: Firefox: Firefox 47.0.2 and later Firefox: Firefo		(352 × 288/352 × 240)	Storage	FTP;SFTP; Micro SD card (support max. 512 GB); NAS	
Day/Night Auto(ICR)/Color/B/W BLC Yes Mobile Client IOS; Android HLC Yes Configuration encryption; Trusted execution; Digest, Security logs; WSSE; Account lockout; sysige; Video encryption; Best, Security logs; WSSE; Account lockout; sysige; Video encryption; Boz. 1x; IPN/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Firmware encryption; Generation and importing of X.509 certification White Balance Auto; natural; street lamp; outdoor; manual; regional custom White Balance Auto Auto Auto Auto Other Certification Certification Certification Certification Certification Certification Certification OFF/ON (4 areas, rectangular) Port Region of Interest (Rol) Yes (4 areas) Image Stabilization Electronic Image Stabilization (EIS) Audio Input 1 channel (RCA port) Audio Output 1 channel (RCA port) Alarm Input 3 channels in: wet contact, 5mA 3V–5V DC Image Rotation O'/90'/180'/270' (Support 90'/270' with 2688 × 1520 resolution and lower) Privacy Masking 8 areas Management Software Mobile Client IOS; Android Configuration encryption; Trusted execution; Digest, Security (Despet Security logs; WSSE; Account lockout; private execution; Digest, Security logs; WSSE; Account lockout; private decention; private execution; Digest, Security logs; WSSE; Account lockout; private decenting execution; Digest, Security logs; WSSE; Account lockout; private decenting execution; Digest, Security logs; WSSE; Account lockout; private loot; private execution; Digest, Security logs; WSSE; Account lockout; private loot; private loot; private loot; private lo	Bit Rate Control	CBR/VBR	Browser		
BLC Yes Mobile Client iOS; Android HLC Yes Configuration encryption; Trusted execution; Digest, Security logs; WSSE; Account lockout; Syslog; Video encryption; Best, Security logs; WSSE; Account lockout; Syslog; Video encryption; Best, Security logs; WSSE; Account lockout; Syslog; Video encryption; Best, Security logs; WSSE; Account lockout; Syslog; Video encryption; Best, Security logs; WSSE; Account lockout; Syslog; Video encryption; Best, Security logs; WSSE; Account lockout; Syslog; Video encryption; Best, Security logs; WSSE; Account lockout; Syslog; Video encryption; Best, Security logs; WSSE; Account lockout; Syslog; Video encryption; Best, Security logs; WSSE; Account lockout; Syslog; Video encryption; Best, Security logs; WSSE; Account lockout; Syslog; Video encryption; Best, Security logs; WSSE; Account lockout; Syslog; Video encryption; Best, Security logs; WSSE; Account lockout; Syslog; Video encryption; Best, Security logs; WSSE; Account lockout; Syslog; Video encryption; Best, Security logs; WSSE; Account lockout; Syslog; Video encryption; Best, Security logs; WSSE; Account lockout; Syslog; Video encryption; Best, Security logs; WSSE; Account lockout; Syslog; Video encryption; Best, Security logs; WSSE; Account lockout; Security logs; WSSE; Account lo	Video Bit Rate	H.264: 32 kbps–16384 kbps; H.264: 12 kbps–12800 kbps			
HLC Yes Configuration encryption; Trusted execution; Digest; Security logs; WSSE; Account lock out; syslog; Video encryption; Bo2. 1x; IP/MAC filtering; HTTPS; Trusted upon of interest (Roll) Yes Region of Interest (Roll) Yes (4 areas) Image Stabilization Figure 1 Yes (Sarrt Illumination Yes (1904) Smart Illumination Yes (1904) Defog Yes Alarm Input 3 channels out: dry contact, 1,000mA 30V DC/500mA for Mirror Yes Analog Output 1 channel (CVBS output; BNC) Privacy Masking 8 areas Power Output (1904) Configuration encryption; Trusted execution; Digest; Security logs; WSSE; Account lock out; and the execution; Digest; Security logs; WSSE; Account lock out; and the execution; Digest; Security logs; WSSE; Account lock out; and the execution; Digest; Security logs; WSSE; Account lock out; and the execution; Digest; Security logs; WSSE; Account lock out; and the execution; Digest; Security logs; WSSE; Account lock out; and the execution; Digest; Security logs; WSSE; Account lock out; and the execution; Digest; Security logs; WSSE; Account lock out; Digest; Di	Day/Night	Auto(ICR)/Color/B/W		· · ·	
WDR 120 dB Cyber Security logs, WJSS;Account locks, Sylogy, Video encryption, SQ2_1x;IP/MAC filtering;HTTPS, Trusted upgrade; Trusted boot, Firmware encryption, Generation and importing of X.509 certification White Balance Auto; natural; street lamp; outdoor; manual; regional custom CE-LVD: EN62368-1; Gain Control Auto Certification CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; Noise Reduction 3D NR CE-LVD: EN62368-1; CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; PCC: 47 CRF FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14 Motion Detection OFF/ON (4 areas, rectangular) Port Region of Interest (Rol) Yes (4 areas) RS-485 1 (baud rate range:1200 bps-115200 bps) Image Stabilization Electronic Image Stabilization (EIS) Audio Input 1 channel (RCA port) Smart Illumination Yes Audio Output 1 channel (RCA port) Defog Yes Alarm Input 3 channels in: wet contact, 5mA 3V-5V DC Image Rotation O'/90'/180*/270* (Support 90*/270* with 2688 × 1520 resolution and lower) Alarm Output 1 channel (CVBS output: BNC) Privacy Masking 8 areas	BLC	Yes	Mobile Client		
Scene Self-adaptation (SSA) Yes Certification White Balance Auto; natural; street lamp; outdoor; manual; regional custom Gain Control Auto	HLC	Yes	Cyber Security	execution;Digest;Security logs;WSSE;Account lockout;syslog;Video encryption;802.1x;IP/MAC filtering;HTTPS;Trusted upgrade;Trusted boot;Firmware	
White Balance Auto; natural; street lamp; outdoor; manual; regional custom Gain Control Auto Noise Reduction Auto OFF/ON (4 areas, rectangular) Region of Interest (Rol) Image Stabilization Electronic Image Stabilization Electronic Image Stabilization Fort Smart Illumination Yes Audio Output Defog Yes Alarm Input Alarm Output Privacy Masking 8 areas CE-LVD: EN62368-1; CE-EMC: Electronagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14 Port Region of Interest (Rol) Yes (4 areas) RS-485 1 (baud rate range:1200 bps-115200 bps) Audio Input 1 channel (RCA port) Alarm Input 3 channels in: wet contact, 5mA 3V-5V DC Alarm Output 2 channels out: dry contact, 1,000mA 30V DC/500mA 50V AC Privacy Masking 8 areas		120 dB			
White Balance Auto, Natural, street ramp; outdoor; manual; regional custom Gain Control Auto Certifications Port Cute Cute Certification Certifications Port Cute Cute Certification Certifications C	•	Yes	C 1.t. 1.	certification	
Gain ControlAutoCertificationsCE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUI: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14Motion DetectionOFF/ON (4 areas, rectangular)PortRegion of Interest (Rol)Yes (4 areas)RS-4851 (baud rate range:1200 bps-115200 bps)Image StabilizationElectronic Image Stabilization (EIS)Audio Input1 channel (RCA port)Smart IlluminationYesAudio Output1 channel (RCA port)DefogYesAlarm Input3 channels in: wet contact, 5mA 3V-5V DCImage Rotation0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)Alarm Output2 channels out: dry contact, 1,000mA 30V DC/500mA 50V ACMirrorYesAnalog Output1 channel (CVBS output: BNC)Privacy Masking8 areasPower Output12 VDC power output, max. current 165 mA, peak	White Balance	, , , , , , , , ,	Certification	CF IVD FNC23C0 4	
Noise Reduction 3D NR Motion Detection OFF/ON (4 areas, rectangular) Port Region of Interest (Rol) Yes (4 areas) Electronic Image Stabilization (EIS) Smart Illumination Yes Audio Output Alarm Input Defog Yes Image Rotation O*90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower) Mirror Yes Analog Output Privacy Masking ECC. 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14 Port FCC. 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14 Port FCC. 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14 Port FCC. 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14 Port FCC. 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14 Port FCC. 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14 Port FCC. 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14 Port FCC. 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14 Port FCC. 47 CFR FCC Part 15, Subpart B; UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14 Port FCC. 47 CFR FCC Part 15, Subpart B; UL/CDL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14 Port FCC. 47 CFR FCC Part 15, Subpart B; UL/CDL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14 Port FCC. 47 CFR FCC Part 15, Subpart B; UL/CDL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14 Port FCC. 47 CFR FCC Part 15, Subpart B; UL/CDL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14 Port FCC. 47 CFR FCC Part 15, Subpart B; UL/CDL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14 Port FCC. 47 CFR FCC Part 15, Subpart B; UL/CDL Part 15	Gain Control	Auto	Certifications	CE-EMC: Electromagnetic Compatibility Directive	
Region of Interest (RoI) Yes (4 areas) Image Stabilization Electronic Image Stabilization (EIS) Audio Input 1 channel (RCA port) Audio Output 1 channel (RCA port) Defog Yes Alarm Input 3 channels in: wet contact, 5mA 3V–5V DC Image Rotation O°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower) Alarm Output 2 channels out: dry contact, 1,000mA 30V DC/500mA 50V AC Mirror Yes Analog Output 1 channel (CVBS output: BNC) Privacy Masking 8 areas	Noise Reduction	3D NR	certifications	FCC: 47 CFR FCC Part 15, Subpart B;	
Image Stabilization Electronic Image Stabilization (EIS) Audio Input 1 channel (RCA port) Audio Output 1 channel (RCA port) Audio Output 1 channel (RCA port) Alarm Input 3 channels in: wet contact, 5mA 3V–5V DC Image Rotation O°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower) Alarm Output Alarm Output 2 channels out: dry contact, 1,000mA 30V DC/500mA 50V AC Mirror Yes Analog Output 1 channel (CVBS output: BNC) Privacy Masking 8 areas	Motion Detection	OFF/ON (4 areas, rectangular)	Port		
Smart Illumination Yes Audio Output 1 channel (RCA port) Defog Yes Alarm Input 3 channels in: wet contact, 5mA 3V–5V DC Image Rotation O°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower) Alarm Output 2 channels out: dry contact, 1,000mA 30V DC/500mA 50V AC Mirror Yes Analog Output 1 channel (RCA port) 2 channels in: wet contact, 5mA 3V–5V DC Alarm Output 2 channels out: dry contact, 1,000mA 30V DC/500mA 50V AC Mirror Yes Analog Output 1 channel (RCA port) 2 channels in: wet contact, 5mA 3V–5V DC 2 channels out: dry contact, 1,000mA 30V DC/500mA 50V AC Mirror Yes Analog Output 1 channel (RCA port) 2 channels in: wet contact, 5mA 3V–5V DC 2 channels out: dry contact, 1,000mA 30V DC/500mA 50V AC Mirror Yes Analog Output 1 channel (RCA port)	Region of Interest (RoI)	Yes (4 areas)	RS-485	1 (baud rate range:1200 bps–115200 bps)	
Defog Yes Alarm Input 3 channels in: wet contact, 5mA 3V–5V DC Image Rotation O°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower) Alarm Output 2 channels out: dry contact, 1,000mA 30V DC/500mA 50V AC Mirror Yes Analog Output 1 channel (CVBS output: BNC) Privacy Masking 8 areas Power Output 12 VDC power output, max. current 165 mA, peak	Image Stabilization	Electronic Image Stabilization (EIS)	Audio Input	1 channel (RCA port)	
Image Rotation O°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower) Alarm Output 2 channels out: dry contact, 1,000mA 30V DC/500mA 50V AC Mirror Yes Analog Output 1 channel (CVBS output: BNC) Privacy Masking 8 areas Power Output 12 VDC power output, max. current 165 mA, peak	Smart Illumination	Yes	Audio Output	1 channel (RCA port)	
Mirror Yes Alarm Output 2 channels out: dry contact, 1,000mA 30V DC/500mA 50V AC Mirror Yes Analog Output 1 channel (CVBS output: BNC) Privacy Masking 8 areas Power Output 12 VDC power output, max. current 165 mA, peak	Defog	Yes	Alarm Input	3 channels in: wet contact, 5mA 3V–5V DC	
Privacy Masking 8 areas 12 VDC power output, max. current 165 mA, peak	Image Rotation		Alarm Output		
Power Output	Mirror	Yes	Analog Output	1 channel (CVBS output: BNC)	
	Privacy Masking	8 areas	Power Output		

Power

Power Supply	12 VDC/24 VAC/PoE+ (802.3at)/ePoE
Power Consumption	Basic: 6.6 W (12 VDC); 9.3 W (24 VAC); 9.8 W (PoE) Max. (ICR switch + IR intensity): 18.7 W (12 VDC); 24.8 W (24 VAC); 25.2 W (PoE) Heating: 3 W (12 VDC): 4.6 W (24 VAC); 5.47 W (PoE)

Environment

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Storage Humidity	10-95%
Protection	IP67, IK10, Anti-Corrosion Protection (optional)

Structure

Casing Material	Metal + plastic
Product Dimensions	118.0 mm × Φ159.0 mm (4.65" × Φ6.26")
Net Weight	1.16 kg (2.56 lb)
Gross Weight	1.36 kg (3.00 lb)

Accessories

Optional:







PFB211W Wall Mount Bracket

PFA156 Pole Mount Bracket

PFA101 Mount Adapter



Ceiling Mount Bracket





PFB5201C In-ceiling Mount Bracket



PFA138 Junction Box



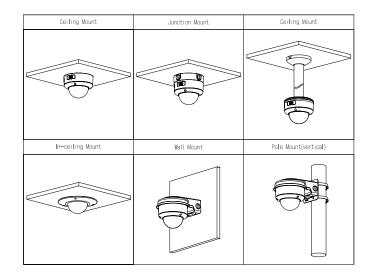
PFM320D 12 VDC 2A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

