



# DH-IPC-HDBW7442H-Z-S2

4MP IR Dome WizMind Network Camera





Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, 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**

With advanced deep learning algorithm, Dahua WizMind 7 Series network camera supports various intelligent functions and satisfies the requirements in different scenes. The camera can accurately recognize person, vehicle, and non-motor vehicle, face, and liveness. This series camera has ultra starlight night version effect, and works with ultra-low stream. It supports dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

#### **Functions**

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

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

#### Starlight+

With advanced image processing technology, optical technology, and image sensor of large target surface, Dahua Starlight+ technology can provide clear colorful video in the environment of ultra-low illuminance. It applies to various environments of low illuminance.

#### Video Metadata

With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@50/60 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- ROI, SMART H.264 +/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Built-in IR LED, and the max. illumination distance is 40 m.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- · With deep learning algorithm, it supports video metadata, face detection, face recognition, people counting, perimeter protection, etc.
- Supports P-Iris, the camera can control the iris more precisely for better image effect.
- · Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485, BNC, supports max. 256 G Micro SD card.
- 12 VDC/24 VAC/PoE power supply (the power ports are different depending on the power supply).
- IP67, IK10 protection grade.
- 12 VDC power output, max. current 165 mA, easy for installation
- Anti-corrosion coating (optional).



















#### **Perimeter Protection**

With deep learning algorithm, Dahua Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

# **People Counting**

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs reports to meet your requirements.

# **Face Detection**

Dahua Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, tracking, capturing and selecting the best face image, and then outputs face snapshot.

#### **Face Recognition**

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database to recognize the person identity.

# **Cyber Security**

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

## **Privacy Protection**

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

#### **PPE Detection**

With the PPE Detection function, the camera can detect attributes including face masks, helmets, glasses, safety vests, and the color of tops and bottoms, and determine whether PPE requirements are met. PPE compliance or non-compliance alarms can be triggered according to the alarm settings.

# **Face and Human Body Association**

With deep learning algorithm, Dahua Face and Human Body Association technology detects face and human body of one person, captures them separatedly, selects the best image, and then associates them.

Technical	Specification

#### Camera

Image Sensor	1/1.8" CMOS
Max. Resolution	2688 (H) × 1520 (V)
ROM	4 GB
RAM	2 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s
Min. Illumination	0.001 lux@F1.2 (Color, 30 IRE) 0.0002 lux@F1.2 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	40 m (131.23 ft)
Illuminator On/Off Control	Auto; Manual; Zoomprio
Illuminator Number	3 (IR LED)

## Lens

Lens Type	Motorized vari-focal
Lens Mount	Module interface
Focal Length	2.7-12 mm
Max. Aperture	F1.2
Field of View	Horizontal: 114° (W)–48° (T) Vertical: 59° (W)–27° (T) Diagonal: 141° (W)–55° (T)

Iris Control Close Focus Distance		Auto; P-iris			
		1 m (3.28 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	W	60.1 m (197.18 ft)	24 m (78.74 ft)	12 m (39.37 ft)	6 m (19.69 ft)
	Т	128.7 m (422.24 ft)	51.5 m (168.96 ft)	25.7 m (84.32 ft)	12.9 m (42.32 ft)

#### Smart Event

Abandoned object; missing object
Abandoned object; missing object

# Professional, intelligent

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
Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); 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.
Face Recognition	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes (gender, age, glasses, expressions, mask, and beard) and 8 expressions (angry, sad, disgusted, scared, surprised, calm, happy, confused); face snapshot set as face or one-inch photo; snapshot strategies (recognition priority and optimization snapshot); face angle filter; optimization time setting. Support 5 face databases; register one by one or in batches; support face recognition similarity settings and face comparison on the basis of 100,000 face databases.
Face and Body Detection	There are two modes: General mode and PPE Detection. General mode: Supports enabling face detection and human detection at the same time, and alarms can be triggered.  PPE Detection: Supports PPE detection, can detect attributes including face mask, safety helmet, glasses, and safety vest, top color and bottom color, and determine whether PPE requirements are met.  Alarms can be triggered according to the alarm settings.
People Counting	Tripwire people counting and people counting in area; generating and exporting report (day/month/year); queue management and exporting report (day/month); 4 rules can be set for tripwire, people counting in area and queue management.
Video Metadata	Motor vehicle, non-motor vehicle, face, human detection; track; snapshot; snapshot optimization; optimal face snapshot upload.  Motor vehicle attributes: license plate, vehicle type, vehicle color, vehicle logo and other attributes: seatbelt, smoking, calling.  Non-motor vehicle attributes: type, color, number of people, top type and color, helmet.  Human body attributes: top/bottom type and color, bag, hat and umbrella.  Face attributes: gender, age, expressions, glasses, face mask and beard.
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos
Video	
Video Compression	H.265; H.264; H.264H; MJPEG (Only supported by the sub stream)

Smart Codec         Smart H.265+; Smart H.264+           Wain Stream: 2688 x 1520@ (1-50/60 fps) Sub stream: 704 x 576@ (1-25/ps); 704 x 480@ (1-30 fps) Fourth stream: 1920 x 1080@ (1-25/30 fps) Fourth stream: 704 x 576@ (1-25/30 fps) Fourth stream: 704 x			
Video Frame Rate    Sub stream: 194 x 576@ (1–25 fps); 704 x 480@ (1–30 fps)     Fourth stream: 1920 x 1080@ (1–25/30 fps)     Fourth stream: 1920 x 1080@ (1–25/30 fps)     Fourth stream: 1920 x 1080@ (1–25/30 fps)     Filth stream: 1920 x 1080@ (1–25/30 fps)     Filth stream: 1920 x 1080@ (1–25/30 fps)     Filth stream: 704 x 576@ (1–25 fps); 704 x 480@ (1–30 fps)     Stream Capability	Smart Codec	Smart H.265+; Smart H.264+	
Resolution  ### (2688 x 1520); 3M (2304 x 1296); 1080p (1920 x 1080); 1.3M (1280 x 960); 720p (1280 x 720); D1 (704 x 576/704 x 480); ViSA (640 x 480); CIF (352 x 288/352 x 240)  Bit Rate Control  ### (CBR/VBR)  Video Bit Rate  ### (1264: 32 kbps—10240 kbps H.265: 12 kbps—9984 kbps  Day/Night  ### Auto(ICR)/Color/B/W  ### (140 dB)  ### Scene Self-adaptation (SSA)  ### White Balance  ### Auto; natural; street lamp; outdoor; manual; regional custom  ### (SSA)  ### White Balance  ### Auto; Manual  ### Notion Detection  ### OFF/ON (4 areas, rectangular)  ### Region of Interest (RoI)  ### Wes  ### Privacy Masking  ### Aurois of Support 90*/270* with 2688 x 1520 resolution and lower)  ### Privacy Masking  ### Audio  ### Audio Compression  ### PCM; G.711A; G.711Mu; G.726; G.723  ### Alarm  ### Alarm Event  ### No SD card; SD card full; SD card error; SD card durability warning, network disconnection; IP conflict; illegal access, security exception; motion detection; video tampering; privping intrusion; fast moving; abandoned object; missing object; loitering detection; geople gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; defocus detection; external alarm; face detection; queue management  **Network**	Video Frame Rate	Sub stream: 704 × 576@ (1–25 fps); 704 × 480@ (1–30 fps)  Third stream: 1920 × 1080@ (1–25/30 fps)  Fourth stream: 1920 × 1080@ (1–25/30 fps)  Fifth stream: 704 × 576@(1–25fps); 704 × 480@ (1–30	
Resolution    1080); 1.3M (1280 × 960); 7200 (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)    Bit Rate Control   CBR/VBR	Stream Capability	5 streams	
Video Bit Rate  H.264: 32 kbps—10240 kbps H.265: 12 kbps—9984 kbps  Day/Night  Auto(ICR)/Color/B/W  BLC  Yes  HLC  Yes  WDR  140 dB  Scene Self-adaptation (SSA)  White Balance  Auto; natural; street lamp; outdoor; manual; regional custom  Gain Control  Auto; Manual  Noise Reduction  3D NR  Motion Detection  OFF/ON (4 areas, rectangular)  Region of Interest (Rol)  Yes (4 areas)  Image Stabilization  Electronic Image Stabilization (EIS)  Smart Illumination  Yes  Defog  Yes  Image Rotation  O"/90"/180"/270" (Support 90"/270" with 2688 × 1520 resolution and lower)  Mirror  Yes  Privacy Masking  4 areas  Audio  Audio Compression  Alarm  No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; olitering detection; people gathering; parking detection; oscene changing; audio detection; video metedata; people counting in area; people counting; queue management  Network	Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352	
Day/Night Auto(ICR)/Color/B/W  BLC Yes  HLC Yes  WDR 140 dB  Scene Self-adaptation (SSA)  White Balance Auto; natural; street lamp; outdoor; manual; regional custom  Gain Control Auto; Manual  Noise Reduction 3D NR  Motion Detection OFF/ON (4 areas, rectangular)  Region of Interest (RoI) Yes (4 areas)  Image Stabilization Electronic Image Stabilization (EIS)  Smart Illumination Yes  Image Rotation O*/90*/180*/270* (Support 90*/270* with 2688 × 1520 resolution and lower)  Mirror Yes  Privacy Masking 4 areas  Audio  Audio Compression PCM; G.711A; G.711Mu; G.726; G.723  Alarm  No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; video metedata; people counting in area; people counting; queue management	Bit Rate Control	CBR/VBR	
BLC  Yes  HLC  Yes  WDR  140 dB  Scene Self-adaptation (SSA)  White Balance  Auto; natural; street lamp; outdoor; manual; regional custom  Gain Control  Auto; Manual  Noise Reduction  OFF/ON (4 areas, rectangular)  Region of Interest (Rol)  Yes (4 areas)  Image Stabilization  Electronic Image Stabilization (EIS)  Smart Illumination  Yes  Image Rotation  O*/90*/180*/270* (Support 90*/270* with 2688 × 1520 resolution and lower)  Mirror  Yes  Privacy Masking  4 areas  Audio  Audio Compression  PCM; G.711A; G.711Mu; G.726; G.723  Alarm  No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; video metedata; people counting in area; people counting; queue management  Network	Video Bit Rate	·	
WDR  140 dB  Scene Self-adaptation (SSA)  White Balance  Auto; natural; street lamp; outdoor; manual; regional custom  Gain Control  Auto; Manual  Noise Reduction  OFF/ON (4 areas, rectangular)  Region of Interest (RoI)  Image Stabilization  Electronic Image Stabilization (EIS)  Smart Illumination  Yes  Image Rotation  O*90*/180*/270* (Support 90*/270* with 2688 × 1520 resolution and lower)  Mirror  Yes  Privacy Masking  4 areas  Audio  Audio Compression  PCM; G.711A; G.711Mu; G.726; G.723  Alarm  No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; oene changing; audio detection; defocus detection; scene changing; audio detection; defocus detection; scene changing; audio detection; defocus detection; scene changing; audio detection; queue management  Network	Day/Night	Auto(ICR)/Color/B/W	
WDR  Scene Self-adaptation (SSA)  White Balance  Auto; natural; street lamp; outdoor; manual; regional custom  Gain Control  Auto; Manual  Noise Reduction  OFF/ON (4 areas, rectangular)  Region of Interest (RoI)  Wes (4 areas)  Image Stabilization  Electronic Image Stabilization (EIS)  Smart Illumination  Yes  Defog  Yes  Image Rotation  O"/90"/180"/270" (Support 90"/270" with 2688 × 1520 resolution and lower)  Mirror  Yes  Privacy Masking  4 areas  Audio  Audio Compression  PCM; G.711A; G.711Mu; G.726; G.723  Alarm  No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; scene changing; audio detection; queue management  Network	BLC	Yes	
Scene Self-adaptation (SSA)  White Balance  Auto; natural; street lamp; outdoor; manual; regional custom  Auto; Manual  Noise Reduction  3D NR  Motion Detection  OFF/ON (4 areas, rectangular)  Region of Interest (RoI)  Yes (4 areas)  Image Stabilization  Electronic Image Stabilization (EIS)  Smart Illumination  Yes  Defog  Yes  Image Rotation  O*/90*/180*/270* (Support 90*/270* with 2688 × 1520 resolution and lower)  Mirror  Yes  Privacy Masking  4 areas  Audio  Audio Compression  PCM; G.711A; G.711Mu; G.726; G.723  Alarm  No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; seene changing; audio detection; defocus detection; external alarm; face detection; video metedata; people counting in area; people counting; queue management  Network	HLC	Yes	
White Balance Auto; natural; street lamp; outdoor; manual; regional custom  Auto; Manual  Noise Reduction Auto; Manual  Noise Reduction OFF/ON (4 areas, rectangular)  Region of Interest (Rol) Image Stabilization Electronic Image Stabilization (EIS)  Smart Illumination Yes  Defog Yes Image Rotation O*/90*/180*/270* (Support 90*/270* with 2688 × 1520 resolution and lower)  Mirror Yes  Privacy Masking 4 areas  Audio  Audio Compression PCM; G.711A; G.711Mu; G.726; G.723  Alarm  No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; video metedata; people counting in area; people counting; queue management  Network	WDR	140 dB	
Gain Control  Auto; Manual  Noise Reduction  3D NR  Motion Detection  OFF/ON (4 areas, rectangular)  Region of Interest (Rol)  Image Stabilization  Electronic Image Stabilization (EIS)  Smart Illumination  Yes  Defog  Yes  Image Rotation  O°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)  Mirror  Yes  Privacy Masking  4 areas  Audio  Audio Compression  PCM; G.711A; G.711Mu; G.726; G.723  Alarm  No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loltering detection; people gathering; parking detection; scene changing, audio detection; defocus detection; escene changing, audio detection; defocus detection; evernal alarm; face detection; video metedata; people counting in area; people counting; queue management  Network		Yes	
Motion Detection  OFF/ON (4 areas, rectangular)  Region of Interest (RoI)  Image Stabilization  Electronic Image Stabilization (EIS)  Smart Illumination  Yes  Defog  Yes  Image Rotation  O*/90*/180*/270* (Support 90*/270* with 2688 × 1520 resolution and lower)  Mirror  Yes  Privacy Masking  4 areas  Audio  Audio Compression  PCM; G.711A; G.711Mu; G.726; G.723  Alarm  No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object, loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; video metedata; people counting in area; people counting; queue management  Network	White Balance		
Motion Detection  OFF/ON (4 areas, rectangular)  Yes (4 areas)  Image Stabilization  Electronic Image Stabilization (EIS)  Smart Illumination  Yes  Defog  Yes  Image Rotation  O°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)  Mirror  Yes  Privacy Masking  4 areas  Audio  Audio Compression  PCM; G.711A; G.711Mu; G.726; G.723  Alarm  No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; video metedata; people counting in area; people counting; queue management  Network	Gain Control	Auto; Manual	
Region of Interest (Rol)  Image Stabilization  Electronic Image Stabilization (EIS)  Smart Illumination  Yes  Defog  Yes  Image Rotation  O°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)  Mirror  Yes  Privacy Masking  4 areas  Audio  Audio Compression  PCM; G.711A; G.711Mu; G.726; G.723  Alarm  No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; video metedata; people counting in area; people counting; queue management  Network	Noise Reduction	3D NR	
Image Stabilization  Electronic Image Stabilization (EIS)  Smart Illumination  Yes  Defog  Yes  Image Rotation  O°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)  Mirror  Yes  Privacy Masking  4 areas  Audio  Audio Compression  PCM; G.711A; G.711Mu; G.726; G.723  Alarm  No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; video metedata; people counting in area; people counting; queue management  Network	Motion Detection	OFF/ON (4 areas, rectangular)	
Smart Illumination  Pefog  Yes  Image Rotation  O°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)  Mirror  Yes  Privacy Masking  4 areas  Audio  Audio Compression  PCM; G.711A; G.711Mu; G.726; G.723  Alarm  No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; video metedata; people counting in area; people counting; queue management  Network	Region of Interest (RoI)		
Defog  Image Rotation  0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)  Mirror  Yes  Privacy Masking  4 areas  Audio  Audio Compression  PCM; G.711A; G.711Mu; G.726; G.723  Alarm  No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; video metedata; people counting in area; people counting; queue management  Network	Image Stabilization		
Image Rotation  O°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)  Mirror  Yes  Privacy Masking  4 areas  Audio  Audio Compression  PCM; G.711A; G.711Mu; G.726; G.723  Alarm  No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; video metedata; people counting in area; people counting; queue management  Network	Smart Illumination	Yes	
resolution and lower)  Mirror  Yes  Privacy Masking  4 areas  Audio  Audio Compression  PCM; G.711A; G.711Mu; G.726; G.723  Alarm  No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; video metedata; people counting in area; people counting; queue management  Network	Defog	Yes	
Privacy Masking  Audio  Audio Compression  PCM; G.711A; G.711Mu; G.726; G.723  Alarm  No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; video metedata; people counting in area; people counting; queue management  Network	Image Rotation		
Audio Compression  PCM; G.711A; G.711Mu; G.726; G.723  Alarm  No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; video metedata; people counting in area; people counting; queue management  Network	Mirror	Yes	
Audio Compression  PCM; G.711A; G.711Mu; G.726; G.723  Alarm  No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; video metedata; people counting in area; people counting; queue management  Network	Privacy Masking	4 areas	
No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; video metedata; people counting in area; people counting; queue management  Network	Audio		
No SD card; SD card full; SD card error; SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; video metedata; people counting in area; people counting; queue management  Network	Audio Compression	PCM; G.711A; G.711Mu; G.726; G.723	
SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; video metedata; people counting in area; people counting; queue management  Network	Alarm		
	Alarm Event	SD card durability warning; network disconnection; IP conflict; illegal access; security exception; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; defocus detection; external alarm; face detection; video metedata; people counting	
Network Port RJ-45 (10/100/1000 Base-T)	Network		
	Network Port	RJ-45 (10/100/1000 Base-T)	
SDK and API Yes	SDK and API	Yes	

	Cyber Security	Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade
	Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP
	Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P
	User/Host	20 (Total bandwidth: 80M)
	Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
	Browser	IE: IE9 and later Chrome: Chrome 42 and later Firefox: Firefox 48.0.2 and later
	Management Software	Smart PSS; DSS; DMSS
	Mobile Client	iOS; Android
	Certification	
	Certifications	CE-LVD:EN62368-1; CE-EMC:Electromagnetic 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; UL 50E NEMA Type 4X (optional)
	Port	
	RS-485	1 (baud rate range:1200 bps–115200 bps)
	Audio Input	1 channel (3-pin terminal with 2.54 mm clearance, with audio cable)
	Audio Output	$1\ \mbox{channel}$ (3-pin terminal with 2.54 mm clearance, with audio cable)
	Alarm Input	3 channels in: 5 mA 3 V–5 VDC
	Alarm Output	2 channels out: 1,000 mA 30 VDC/500 mA 50 VDC
	Power	
	Power Supply	12 VDC/24 VAC/PoE+ (802.3at)
	Power Consumption	Basic power consumption: 7.10 W (12 VDC); 6.71 W (24 VAC); 7.37 W (PoE)  Max. power consumption (Max. stream + intelligent function + IR LED + focus): 22.18 W (12 VDC); 21.17 W (24 VAC); 22.38 W (PoE)  Heat power consumption: 3.3 W (12 VDC); 5.5 W (24 VAC); 5.5 W (PoE)
	Environment	
	Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
	Storage conditions	-40 °C to +70 °C (-40 °F to +158 °F)
	Protection Grade	IP67, IK10, Anti-Corrosion Protection: NEMA 4X(optional)
	Structure	
	Casing	Metal + plastic
	Product Dimensions	129.1 mm × Φ157.9 mm (5.08" × Φ6.22")
	Net Weight	1.5 kg (3.31 lb)
	0 11111	4.61. (2.52.11.)

1.6 kg (3.53 lb)

Gross Weight



Ordering Information			
Туре	Model	Description	
4MP	DH-IPC-HDBW7442H-Z-S2	4MP IR Bullet WizMind Network Camera	
Camera	IPC-HDBW7442H-Z-S2	4MP IR Bullet WizMind Network Camera	
	PFA773	Sun Shade	
	PFB211W	Wall Mount	
	PFA152-E	Pole Mount	
Accessories	PFA101	Mount Adapter	
(Optional)	PFB300C	Ceiling Mount	
	PFM320D	12 VDC 2A Power Adapter	
	PFM900-E	Integrated Mount Tester	
	P100	MicroSD Memory Card	

# Junction Mount Wa**ll** Mount Wall Mount Pole Mount(Vertical) Ceiling Mount

# Accessories

# Optional:



PFA773 Sun Shade



PFB211W Wall Mount



PFA152-E Pole Mount



Mount Adapter



PFB300C Ceiling Mount



PFM320D 12 VDC 2A Power Adapter



Integrated Mount Tester



TF-P100 MicroSD Memory Card

# Dimensions (mm[inch])



