### IPC-EB2449TM-ILM-2.8

### 4MP Smart Dual Illumination Fixed-focal Eyeball WizSense Network Camera





Blue | Line Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

### **System Overview**

With advanced deep learning algorithm, WizSense 2 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

#### **Functions**

### **Smart Dual Illuminators**

Smart Dual Illuminators technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

### **SMD Plus**

With intelligent algorithm, Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

#### **Perimeter Protection**

With deep learning algorithm, 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) are largely reduced.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@20 fps, and supports 2560 × 1440 @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light/IR LED, the max. illumination distance is 30 m and the max. warm light distance is 30 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- · Supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- · SMD Plus.













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

With advanced scene-adaptive rate control algorithm, 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.

### **Full-color**

With high-performance sensor and large aperture lens, Full-color technology can display clear colorful image in the environment of ultralow illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

### **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.

### Protection (IP67, Wide 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.

Wide voltage: The camera allows  $\pm 30\%$  (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Camera Image Sensor Max. Resolution ROM RAM Scanning System Electronic Shutter Speed Min. Illumination S/N Ratio Illumination Distance Illuminator On/Off Control Illuminator Number Pan/Tilt/Rotation Range	0.008 lux@F1 0.0008 lux@F 0 lux (Illumina >56 dB 30 m (98.43 f Auto; Manual 1 (IR LED); 1 ( Pan: 0°-360° Tilt: 0°-78°	1/3 s-1/100,0 1.6 (Color, 30 IR 1.6 (B/W, 30 IR ator on) it) (IR), 30 m (9:	tE)	light)	
Max. Resolution  ROM  RAM  Scanning System  Electronic Shutter Speed  Min. Illumination  S/N Ratio  Illumination Distance  Illuminator On/Off Control  Illuminator Number	2688 (H) × 15  128 MB  128 MB  Progressive  Auto/Manual  0.008 lux@F1 0.0008 lux@F0 lux (Illuminal)  >56 dB  30 m (98.43 f)  Auto; Manual  1 (IR LED); 1 ( Pan: 0°-360° Tilt: 0°-78°	1/3 s-1/100,0 1.6 (Color, 30 IR 1.6 (B/W, 30 IR ator on) it) (IR), 30 m (9:	RE)	light)	
ROM RAM Scanning System Electronic Shutter Speed Min. Illumination S/N Ratio Illumination Distance Illuminator On/Off Control Illuminator Number	128 MB  128 MB  Progressive  Auto/Manual  0.008 lux@F1 0.0008 lux@F 0 lux (Illuminal >56 dB  30 m (98.43 f  Auto; Manual  1 (IR LED); 1 (  Pan: 0°-360° Tilt: 0°-78°	1/3 s-1/100,0 1.6 (Color, 30 IF 1.6 (B/W, 30 IF ator on) it) (IR), 30 m (9:1) Warm light)	RE)	light)	
RAM Scanning System Electronic Shutter Speed Min. Illumination S/N Ratio Illumination Distance Illuminator On/Off Control Illuminator Number	128 MB Progressive Auto/Manual 0.008 lux@F1 0.0008 lux@F 0 lux (Illumina >56 dB 30 m (98.43 f Auto; Manual 1 (IR LED); 1 ( Pan: 0°-360° Tilt: 0°-78°	1.6 (Color, 30 IF 1.6 (B/W, 30 IF ator on) t) (IR), 30 m (9: I Warm light)	RE)	light)	
Scanning System  Electronic Shutter Speed  Min. Illumination  S/N Ratio  Illumination Distance  Illuminator On/Off Control  Illuminator Number	Progressive  Auto/Manual  0.008 lux@F1 0.0008 lux@F 0 lux (Illumina  >56 dB  30 m (98.43 f  Auto; Manual  1 (IR LED); 1 (  Pan: 0°-360° Tilt: 0°-78°	1.6 (Color, 30 IF 1.6 (B/W, 30 IF ator on) t) (IR), 30 m (9: I Warm light)	RE)	light)	
Electronic Shutter Speed  Min. Illumination  S/N Ratio  Illumination Distance  Illuminator On/Off Control  Illuminator Number	Auto/Manual  0.008 lux@F1 0.0008 lux@F 0 lux (Illumina >56 dB  30 m (98.43 f  Auto; Manual  1 (IR LED); 1 (  Pan: 0°–360° Tilt: 0°–78°	1.6 (Color, 30 IF 1.6 (B/W, 30 IF ator on) t) (IR), 30 m (9: I Warm light)	RE)	light)	
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S/N Ratio  Illumination Distance  Illuminator On/Off Control  Illuminator Number	0.0008 lux@F 0 lux (Illumina >56 dB 30 m (98.43 f Auto; Manual 1 (IR LED); 1 ( Pan: 0°–360° Tilt: 0°–78°	:1.6 (B/W, 30 If ator on) t) (IR), 30 m (9: I Warm light)	RE)	light)	
Illumination Distance Illuminator On/Off Control Illuminator Number	30 m (98.43 f Auto; Manual 1 (IR LED); 1 ( Pan: 0°–360° Tilt: 0°–78°	l Warm light)	8.43 ft) (Warm	light)	
Illuminator On/Off Control Illuminator Number	Auto; Manual 1 (IR LED); 1 ( Pan: 0°–360° Tilt: 0°–78°	l Warm light)	8.43 ft) (Warm	light)	
Illuminator Number	1 (IR LED); 1 ( Pan: 0°-360° Tilt: 0°-78°	Warm light)			
	Pan: 0°–360° Tilt: 0°–78°				
Pan/Tilt/Rotation Range	Tilt: 0°-78°	360°			
Lens					
Lens Type	Fixed-focal				
Lens Mount	M12				
Focal Length	2.8 mm; 3.6 mm				
Max. Aperture	F1.6				
Field of View		5°; V: 52°; D: 11 8°; V: 41°; D: 94			
Iris Control	Fixed				
Close Focus Distance	2.8 mm: 0.9 r 3.6 mm: 1.6 r				
Lens	Detect	Observe	Recognize	Identify	
DORI 2.8 mm Distance	63.6 m (208.66 ft)	25.4 m (83.33 ft)	12.7 m (41.67 ft)	6.4 m (20.99 ft)	
3.6 mm	85.4 m (280.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)	
Intelligence					
IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)				
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				
Video					
Video Compression	H.264H; H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)				
Smart Codec	Smart H.265+; Smart H.264+				
Video Frame Rate	Main stream: $2688 \times 1520@(1-20 \text{ fps})/2560 \times 1440@(1-25/30 \text{ fps})$ Sub stream: $704 \times 576@(1-25 \text{ fps})/704 \times 480@(1-30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.				

Stream Capability	e Network Camera WIN		
Resolution	4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
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 Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $2688\times1520$ resolution and lower)		
Mirror	Yes		
Privacy Masking	4 areas		
Audio			
Built-in MIC	Yes		
Audio Compression	G.711a; G.711Mu; PCM; G.726		
Alarm			
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; voltage detection; security exception; SMD		
Network			
Network Port	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP		
Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Milestone		
User/Host	6 (Total bandwidth: 36 M)		
Storage	FTP; SFTP; Micro SD card (support max. 256 GB)		
Browser	IE Chrome Firefox		
Management Software	DSS;DMSS		
Mobile Client	iOS;Android		
Cyber Security	Configuration encryption; Trusted execution; Digest; Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Generation and importing of X.509 certification		

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## 4MP Smart Dual Illumination Fixed-focal Eyeball WizSense Network Camera

### Certification

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### Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2.1 W (12 VDC); 2.5 W (PoE) Max. (H.265 + intelligence on + WDR + warm light): 4.4 W (12 VDC); 5.2 W (PoE)

### Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Protection	IP67

### Structure

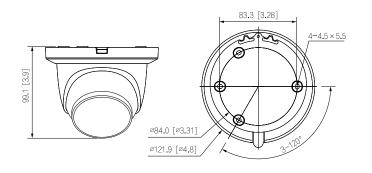
Casing Material	Inner core: Metal; Cover: Metal; Decoration ring: Plastic
Product Dimensions	99.1 mm × Φ121.9 mm (3.90" × Φ4.80")
Net Weight	0.46 kg (1.01 lb)
Gross Weight	0.65 kg (1.43 lb)

#### **Ordering Information** Model Description 4MP Smart Dual Illumination 4MP camera IPC-EB2449TM-ILM-2.8 Fixed-focal Eyeball WizSense Network Camera PFA130-E Junction Box PFB205W-E Wall Mount Bracket Accessories PFA152-E Pole Mount Bracket (Optional) PFA109 Mount Adapter

Ceiling Mount Bracket

### Dimensions (mm[inch])

PFB220C



### **Accessories**

### Optional:







PFA130-E Junction Box PFB205W-E Wall Mount Bracket PFA152-E Pole Mount Bracket



PFA109 Mount Adapter



PFB220C Ceiling Mount Bracket



W-T1000 12V DC 1A Power Adapter

Junction Mount	Ceiling Mount	Wall Mount
Pole Mount(Vertical)		