Technical Specification

Camera

Image Sensor	Dual 1/2.7" CMOS
Max. Resolution	4096 (H) × 1860 (V)
ROM	128 MB
RAM	1 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	Up to 25 m (82.02 ft) (IR LED) Up to 20 m (65.62 ft) (Warm light)
Illuminator On/Off Control	Auto; Manual
Illuminator Number	2 (IR LED); 2 (Warm light)
Angle Adjustment	Pan: 0°–360° Tilt: 0°–77° Rotation: 0°–360°

Lens

Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.8 mm			
Field of View		Horizontal: 180°; Vertical: 86°			
Max. Aperture		F1.4			
Iris Control		Fixed			
Close Focus Distance		0.8 m (2.62 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	50.6 m (166.01 ft)	20.2 m (66.27 ft)	10.1 m (33.14 ft)	5.1 m (16.73 ft)

Intelligence

IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)
SMD	SMD 4.0
Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events.
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.
EPTZ	Enlarge and track the targets of intelligent alarms

Video

Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+
AI Coding	AI H.265; AI H.264
Video Frame Rate	Main stream: 4096 × 1860@(1–20 fps) Sub stream: 1200 × 530@(1–20 fps) Third stream: 1920 × 860@(1–20 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	3 streams
Resolution	4096 × 1860; 3632 × 1632; 3040 × 1368; 1200 × 530; 1920 × 860; 960 × 432
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 6 kbps –16384 kbps H.265: 6 kbps –16384 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120 dB
Scene Self-adaptation (SSA)	Yes
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Privacy Masking	4 areas
Defog	Yes

Audio

Built-in MIC	Yes, built-in dual Mic
Built-in Speaker	Yes, built-in speaker
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723

Alarm

Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene chaging; audio detection; voltage detection; external alrm; SMD; security exception

Network

Network Port	RJ-45 (10/100 Base-T)
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; P2P
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI
User/Host	20 (Total bandwidth: 64 M)
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS

Browser	IE: IE 8 and later Chrome Firefox
Management Software	Smart PSS Lite; DSS; DMSS
Mobile Client	iOS; Android

Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU

Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: wet contact, 5 mA 3 V–5 VDC
Alarm Output	1 channel out: wet contact, 300 mA 12 VDC

Power

Power Supply	12 VDC (±30%); PoE (802.3af)
Power Consumption	Basic: 3.4 W (12 VDC); 3.8 W (PoE) Max. (H.265+WDR+ warm light+siren and light active deterrence + intelligence on): 9 W (12 VDC); 10.3 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	Metal
Product Dimensions	183.1 mm × 99.0 mm × 78.0 mm (7.20" × 3.90" × 3.07") (L × W × H)
Net Weight	695 g (1.53 lb)
Gross Weight	870 g (1.92 lb)

Ordering Information

Type	Model	Description
8MP Camera	DH-IPC-PFW3849S-A180-AS-PV	2x4MP TiOC Duo Splicing Fixed-focal Bullet WizSense Network Camera
	IPC-PFW3849S-A180-AS-PV	2x4MP TiOC Duo Splicing Fixed-focal Bullet WizSense Network Camera
Accessories (Optional)	PFA130-E	Junction Box
	PFA157	Pole Mount Bracket
	PFM900-E	Integrated Mount Tester
	TF-P100	MicroSD Memory Card
	PFM-321D	12 VDC 1A Power Adapter

Accessories

Optional:



PFA130-E
Junction Box



PFA157
Pole Mount Bracket



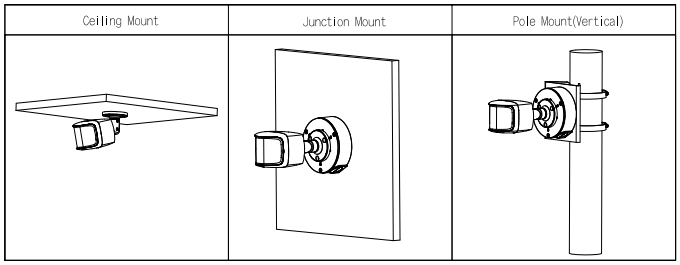
PFM900-E
Integrated
Mount Tester



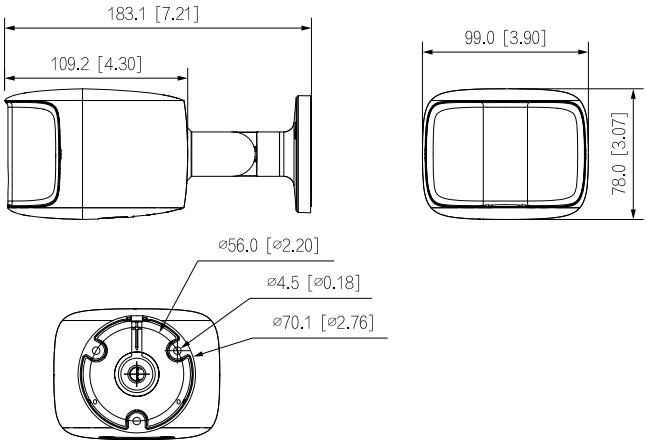
TF-P100
MicroSD
Memory Card



PFM321D
12V DC 1A
Power Adapter



Dimensions (mm[inch])



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