

# D228 PRO

2 MP IR Fixed-focal Dome Network Camera



### Accessories

PFA136



PFB203W



PFA152-E



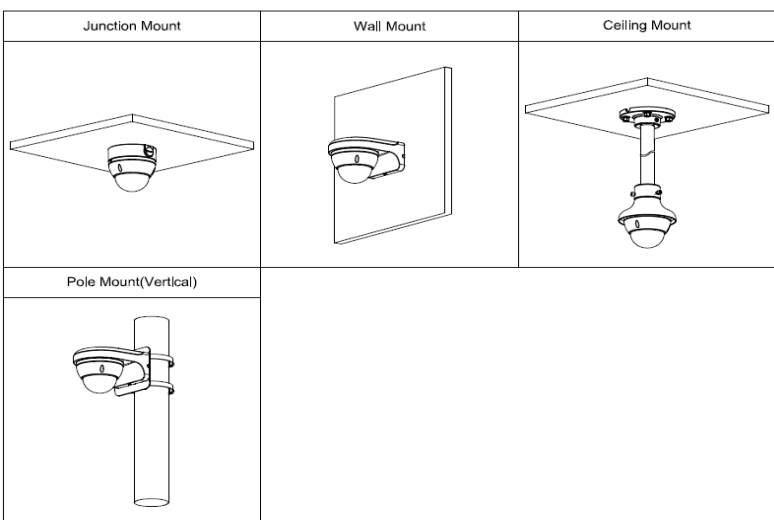
PFA106



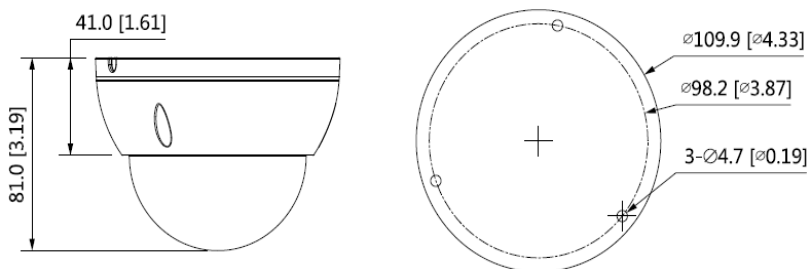
PFB220C



### Installation Method



### Dimensions mm (inch)



### Technical Specification

#### Camera

Image Sensor	1/2.8" CMOS
Max. Resolution	1920 (H) × 1080 (V)
ROM	16 MB
RAM	64 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100000 s
Min. Illumination	0.01 Lux @F2.0
S/N Ratio	>56 dB
Illumination Distance	30 m
Illuminator On/Off Control	Auto / Manual
Illuminator Number	3 (IR LED)
Pan/Tilt/Rotation Range	Pan: 0°–355° Tilt: 0°–65° Rotation: 0°–355°

## Technical Specification

### Lens

Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.8 mm			
Max. Aperture		F2.0			
Field of View		Horizontal: 102°; Vertical: 54°; Diagonal: 120°			
Iris Control		Fixed			
Close Focus Distance		0,5 m			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
		38.6 m	15.4 m	7,7 m	3,9 m

### 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+
Video Frame Rate	Main Stream: 1920 × 1080 (1 fps–25/30 fps) Sub stream: 704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)
Stream Capability	2 streams
Resolution	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–6400 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	DWDR
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)
Smart Illumination	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Mirror	Yes
Privacy Masking	4 areas

### Alarm

Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; safety exception
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### Network

Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; NTP; Multicast
Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Genetec
User/Host	6 (Total bandwidth: 36 M)
Storage	FTP
Browser	IE: IE11; Chrome; Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Client	iOS; Android
Cyber Security	Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade

### Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
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### Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic power consumption: 1.6W (12V DC); 2.2W (PoE) Max. power consumption (ICR + H.265 + IR intensity): 4.4W (12V DC); 5.1W (PoE)

### Environment

Operating Temperature	-40°C to +60°C
Operating Humidity	≤95%
Storage Temperature	-40 °C to +60 °C
Protection	IP67; IK10

### Structure

Casing Material	Metal
Product Dimensions	81 mm × Φ109.9 mm
Net Weight	0,35 kg
Gross Weight	0,5 kg