IR Megapixel Fixed Compact Eyeball

3MP Eyeball Network Camera



- Max 20fps@3MP (2048×1536) & 25/30fps@1080p (1920×1080)
- DWDR
- True Day/Night
- Fixed Lens Options 2.8mm, 3.6mm
- Smart IR 30m (98ft)
- Outdoor Rated IP67



System Overview

The IR Fixed Compact Eyeball camera delivers 3MP resolution with a choice of 2.8mm or 3.6mm lens options. The camera's elegant blend of aesthetics combined with its compact form factor provides an excellent choice for a variety of small to mid-size, indoor/outdoor applications at an affordable price.

Functions

True Day/Night
A day/night mechanical IR cut filter makes this camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens.

Regions of Interest
Regions of Interest (ROI) is a user defined feature that allows the operator to monitor specific areas of a scene while still maintaining overall situational awareness of less important areas.

Smart IR
With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDS from whiting out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 30m (98ft).

Image Flip
Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

Functions

Protection
The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust to IP67 standards, making it suitable for indoor or outdoor environments.

Supporting ±25% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 8KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Streaming
With a choice of unicast or multicast streaming, bandwidth-efficient viewing, recording and third-party video management can easily be achieved. Dual streaming enables bandwidth-efficient viewing and recording. Depending on the resolution and frame rate selected on the first stream, the second stream provides a copy at a lower resolution.

Interoperability
The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

Technical Specification

Camera

Image Sensor	1/3" CMOS
Effective Pixels	2048(H) x 1536(V)
Scanning System	Progressive
ROM / RAM	16MB / 256MB
Electronic Shutter Speed	1/1 ~ 1/100,000s
Minimum Illumination	Color: 0.1 Lux@F2.0; B/W: 0.01 Lux@F2.0; 0 Lux (IR On)
S/N Ratio	More than 50db
IR Distance	Distance Up to 30m (98ft)
IR On/Off Control	Auto / Manual
IR LEDs	12

Lens

Lens Type	Fixed
Mount Type	Board-in
Focal Length	2.8mm, 3.6mm
Max Aperture	F2.0/F2.0
Angle of View	H: 92° /81°
Focus Control	Manual

Pan/Tilt/Rotation

Pan/Tilt Range	Pan: 0° ~ 360°; Tilt: 0° ~ 90°, Rotation：0° ~ 360°

Video

Compression	H.264 / MJPEG
Streaming Capability	2 Streams
Resolution	3MP (2048×1536) (2304×1296) / 1080p (1920×1080) / 720p (1280×720) / D1 (704×576/704×480) / CIF (352×288/352×240)
Frame Rate	Main Stream 3MP (1~20fps), 1080p (1 ~ 25/30fps) Sub Stream 1 D1/CIF (1 ~ 25/30fps)
Bit Rate Control	CBR / VBR
Bit Rate	H.264: 4K ~ 8192Kbps
Day/Night	Auto (ICR) / Color / B/W
BLC Mode	BLC / HLC / DWDR
White Balance	Auto / Sunny / Night / Outdoor / Customized
Gain Control	Auto / Manual
Noise Reduction	3D DNR
Motion Detection	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Smart IR	Support
Digital Zoom	16x
Flip	0°/90°/180°/270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)

Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4/ IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x
Interoperability	ONVIF, CGI
Streaming Method	Unicast / Multicast
Max. User Access	20
Web Viewer	IE10….
Management Software	Smart PSS, DSS
Smart Phone	Android, Ios

Certifications

Certifications	FCC (SEFV1505156-A) UL (E234884-A112-UL)

Electrical

Power Supply	12V DC ±25%, PoE (af Class 0)
Power Consumption	Max. 4W (12V DC, IR On), Max. 4W (PoE, IR On)

Environmental

Operating Conditions	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH
Storage Conditions	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH
Ingress Protection	IP67

Construction

Casing	Metal + Plastic
Dimensions	Φ108mm×84.9mm (4.25" x 3.4")
Net Weight	0.23Kg (0.51lb)
Gross Weight	0.387Kg (0.85lb)

Ordering Information

Type	Part Number	Description
3MP Camera	DH-IPC-HDW13A0SN 2.8mm	3MP, 2.8mm, Manual Lens, True D/N, DWDR, IP67, IR: up to 32m (105ft), DC12V, PoE
	DH-IPC-HDW13A0SN 3.6mm	3MP, 3.6mm, Manual Lens, True D/N, DWDR, IP67, IR: up to 32m (105ft), DC12V, PoE
Accessories	PFA136	Junction Box
	PFB203W	Wall Mount Bracket
	PFA152	Pole Mount Bracket
	PFA150	Pole Mount Bracket
	PFA151	Corner Mount Bracket

Accessories

Optional:



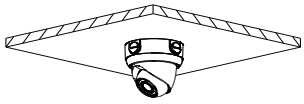
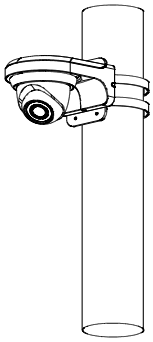
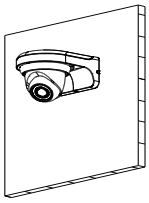
PFA136
Junction Box



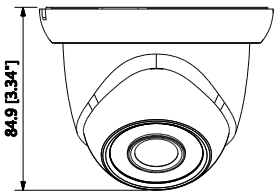
PFB203W
Wall Mount

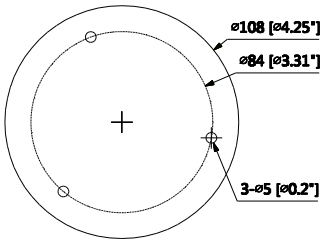


PFA152
Pole Mount

Junction Mount	Pole Mount
PFA136	PFB203W + PFA152
	
Wall Mount	
PFB203W	
	

Dimensions (mm/inch)





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