

IR Megapixel Vari-focal Eyeball

3MP Eyeball Network Camera



- · DWDR · True D
- · True Day/Night

(1920×1080)

- · Motorized Lens 2.7mm-12mm
- · Smart IR 60m (195ft)
- · Outdoor Rated IP67
- · Onboard Storage





Max 20fps@3MP (2048×1536) & 30fps@1080p

System Overview

The IR Megapixel Vari-focal Eyeball camera delivers 3MP resolution with a motorized 2.7mm – 12mm varifocal lens. The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to midsize 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, the camera has the ability to capture detailed images 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 60m (195ft).

Motorized Lens

With a motorized lens, focusing the camera is quick and convenient for both the initial installation and future adjustments. Simply install the camera, dial in the lens, and then make adjustments from the convenience of your computer. For sites that require lens adjustments, remote focus eliminates the hassle of driving to the site deploying a ladder, or spending time away from the office.

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.

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) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



Lite Series | DH-IPC-HDW23A0RN-ZS

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	1/3(4) ~ 1/100,000s	
Minimum Illumination	Color: 0.1Lux@F1.4; B/W: 0.01Lux@F1.4; 0 Lux (IR on)	
S/N Ratio	More than 50db	
IR Distance	Distance Up to 60m (195ft)	
IR On/Off Control	Auto/ Manual	
IR LEDs	2	

Lens

Lens Type	Motorized lens	
Mount Type	Board-in	
Focal Length	2.7mm-12mm	
Max Aperture	F1.4	
Angle of View	H: 92°~28° V:48°~18°	
Focus Control	Motorized	
Close Focus Distance	1300mm~23000mm (4.27 ft - 75.46 ft)	

Pan/Tilt/Rotation

Pan/Tilt Range	Pan: 0° ~ 360°; Tilt: 0° ~ 80°, Rotation:	0° ~
Pall/ Illt Kallge	260°	

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 ~ 30fps)	
rialle Nate	Sub Stream 1 D1/CIF (1 ~ 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 Detetion	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, PSIA, CGI	
Streaming Method	Unicast / Multicast	
Max. User Access	20	
Edge Storage	NAS (Network Attached Storage), Local PC for instant recording, 128GB	
Web Viewer	IE10	
Management Software	Smart PSS, DSS	
Smart Phone	Android, los	

Certifications

Contifications	FCC (SEFD1507206-B)
Certifications	UL (E234884-A65-UL)

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Electrical

Power Supply	12V DC ±25%, PoE (af Class 0)
Power Consumption	Max 5.3W (12V DC, IR On)

Environmental

Operating Conditions	-30°C $^{\sim}$ +60°C (-22°F $^{\sim}$ +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	
Dimensions	Ф122mm x 102mm (4.8" x 4.0")	
Net Weight	0.5Kg (1.10lb)	
Gross Weight	0.7Kg (1.54lb)	

Ordering Information

Туре	Part Number	Description
3MP Camera	DH-IPC- HDBW23A0RN-ZS	3MP, 2.7mm-12mm, True D/N, DWDR, 20fps@3MP, 30fps@1080p, IP67, IR: up to 60m (195ft), DC12V, PoE
	PFA137	Junction Box
	PFB203W	Wall Mount Bracket
Accessories	PFA152	Pole Mount Bracket
	PFA151	Corner Mount Bracket

Accessories

Optional:









PFA137 Junction box

PFB203W Wall mount

PFB203W Wall mount

PFA152 Pole mount

Junction Mount	Pole Mount
PFA137	PFB203W+PFA152
Wall Mount	
PFB203W	

Dimensions (mm/inch)





