IPC-HDW1230EM

2MP IR Eyeball Network Camera



System Overview

The IR Megapixel Fixed Eyeball camera delivers 2MP 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.

- · 1/2.9" 2Megapixel progressive CMOS
- · H.265 & H.264 dual-stream encoding
- · 25/30fps@2M(1920×1080)
- · DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6mm optional)
- · Max IR LEDs Length 30m
- · IP67, PoE









Protection

Supporting $\pm 10\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides protectection against the camera and its structure from the effects of lightning.

Interoperability

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

Onvir *PSIA

Tamage Sensor 1/2.9" 2Megapixel progresive CMOS	Technical Specification	1
Effective Pixels 1920(H) x1080(V) RAM/ROM 256MB/16MB Scanning System Progressive Electronic Shutter Speed Auto/Manual, 1/3(4)~1/1000000s Minimum Illumination 0.1Lux/F2.0(Color), 0Lux/F2.0(IR on) S/N Ratio More than 50dB IR Distance Distance up to 30m(98ft) IR Distance up to 30m(98ft) IR Do/fontoon of More than 50dB Mount of More than 50dB IR Do/fontoon of More than 50dB IR Lens Detect Observe Recognize Recognize Identify Do/font Of More than 50dB More than 50dB <	Camera	
Scanning System Progressive Electronic Shutter Speed Auto/Manual, 1/3(4)~1/100000s Minimum Illumination 0.1Lux/F2.0(color), 0Lux/F2.0(lR on) S/N Ratio More than 50dB IR Distance Distance up to 30m(98ft) IR On/Off Control Auto/ Manual IR LEDS Lens Lens Type Fixed Mount Type Board-in Focal Length 2.8 mm (3.6 mm optional) Max. Aperture Fixed Close Focus Ontrol Fixed Close Focus Control Fixed Close Focus Ontrol Pixed Close Focus Distance N/A PORI Distance 2.8 mm 45m(147ft) 18m(59ft) 9m(30ft) 5m(16ft) PAD/Tilt Range Pan;0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360° Video Compression	Image Sensor	1/2.9" 2Megapixel progresive CMOS
Progressive	Effective Pixels	1920(H) x1080(V)
Electronic Shutter Speed	RAM/ROM	256MB/16MB
Minimum Illumination	Scanning System	Progressive
S/N Ratio More than 50dB	Electronic Shutter Speed	Auto/Manual, 1/3(4)~1/100000s
R Distance Distance up to 30m(98ft) R On/Off Control Auto/ Manual R LEDs 18	Minimum Illumination	0.1Lux/F2.0(Color), 0Lux/F2.0(IR on)
IR On/Off Control IR LEDs 18 Lens Lens Type Fixed Mount Type Board-in Focal Length 2.8 mm (3.6 mm optional) Max. Aperture F2.0/F2.0 Angle of View H:110°/83°,V:57°/44° Focus Control Fixed Close Focus Distance N/A DORI Distance 2.8 mm 45m(147ft) 18m(59ft) 9m(30ft) 5m(16ft) PTZ Pan/Tilt Range Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360° Video Compression H.265/H.264 Streaming Capability 2 Streams Resolution Frame Rate 1080P(1920×1080)/720P(1280×720)/ D1/(704×576/704×480)/CIF(352×288/352×240) Bit Rate Control CBR/VBR Bit Rate H264:24K ~ 8192Kbps	S/N Ratio	More than 50dB
R LEDs	IR Distance	Distance up to 30m(98ft)
Lens Lens Type Fixed Mount Type Board-in Focal Length 2.8 mm (3.6 mm optional) Max. Aperture F2.0/F2.0 Angle of View H:110°/83°,V:57°/44° Focus Control Fixed Close Focus Distance N/A DORI Distance N/A 2.8 mm 45m(147ft) 18m(59ft) 9m(30ft) 5m(16ft) 3.6 mm 57m(187ft) 23m(75ft) 11m(33ft) 6m(20ft) PTZ Pan/Tilt Range Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360° Video Compression H.265/H.264 Streams Resolution Di/Opt/1920x1080)/720P(1280×720)/ Di/704×576/704×480)/CIF(352×288/352×240) Prame Rate Di/CIF(1 ~ 25/30fps) Bit Rate Control CBR/VBR Bit Rate	IR On/Off Control	Auto/ Manual
Fixed	IR LEDs	18
Mount Type Board-in Focal Length 2.8 mm (3.6 mm optional) Max. Aperture F2.0/F2.0 Angle of View H:110°/83°,V:57°/44° Focus Control Fixed Close Focus Distance N/A Detect Observe Recognize Identify DORI Distance 2.8 mm 45m(147ft) 18m(59ft) 9m(30ft) 5m(16ft) Pan/Tilt Range Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360° Video Compression H.265/H.264 Streaming Capability 2 Streams Resolution 1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240) Prame Rate 2M (1 ~25/30fps) Bit Rate Control CBR/VBR Bit Rate H264:24K ~8192Kbps	Lens	
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Close Focus Distance	Angle of View	H:110°/83°,V:57°/44°
Lens	Focus Control	Fixed
DORI Distance	Close Focus Distance	N/A
3.6 mm 57m(187ft) 23m(75ft) 11m(33ft) 6m(20ft)	Lens	Detect Observe Recognize Identify
PTZ Pan/Tilt Range Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360° Video Video Compression H.265/H.264 Streaming Capability 2 Streams Resolution 1080P(1920x1080)/720P(1280×720)/D1(704×576/704×480)/CIF(352×288/352×240) Frame Rate 2M (1 ~ 25/30fps) D1/CIF(1 ~ 25/30fps) D1/CIF(1 ~ 25/30fps) Bit Rate Control CBR/VBR Bit Rate H264:24K ~ 8192Kbps	DORI Distance 2.8 mm	45m(147ft) 18m(59ft) 9m(30ft) 5m(16ft)
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D1(704×576/704×480)/CIF(352×288/352×240) 2M (1 ~ 25/30fps) Prame Rate D1/CIF(1 ~ 25/30fps) Bit Rate Control CBR/VBR H264:24K ~ 8192Kbps	Streaming Capability	2 Streams
Frame Rate D1/CIF(1 ~ 25/30fps) Bit Rate Control CBR/VBR Bit Rate H264:24K ~ 8192Kbps	Resolution	
D1/CIF(1 ~ 25/30fps) Bit Rate Control CBR/VBR H264:24K ~ 8192Kbps	Frame Rate	2M (1 ~ 25/30fps)
Bit Rate H264:24K ~ 8192Kbps		D1/CIF(1 ~ 25/30fps)
	Bit Rate Control	CBR/VBR
Day/Night Auto(ICR) / Color / B/W	Bit Rate	H264:24K ~ 8192Kbps
	Day/Night	Auto(ICR) / Color / B/W
BLC / HLC / DWDR		

White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detetion	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Electronic Image	Support
Smart IR	Support
Digital Zoom	16x
Flip	0°/90°/180°/270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)
Audio	
Compression	N/A
Network	
Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP;HTTPs;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP; DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP; Bonjour;802.1x;Multicast;ICMP;IGMP;
Interoperability	ONVIF, PSIA, CGI
Streaming Method	Unicast / Multicast
Max. User Access	10 Users/20 Users
Edge Storage	NAS (Network Attached Storage), Local PC for instant recording
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Smart PSS, DSS,Easy4ip
Smart Phone	iPhone, iPad, Android Phone
Certifications	
Certifications	CE RCM FCC
Interface	
Video Interface	N/A
Audio Interface	N/A
RS485	N/A
Alarm	N/A
Electrical	
Power Supply	DC12V PoE (802.3af)(Class 0)
Power Consumption	<5.4W

IPC-HDW1230EM

Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Strorage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	N/A

Construction

Casing	Metal+Plastic
Dimensions	Ф108mm×84.9mm(4.25"x3.15")
Net Weight	0.23Kg(0.51lb)
Gross Weight	0.387Kg(0.85lb)