

OR-D2345FEM-A-IR

4MP IR Eyeball Network Camera



System Overview

Eco-savvy products by upgrading H.265 encoding technology, bringing high efficient video compression. It saves bandwidth and storage , energy-saving design to enhance the monitoring system . Meanwhile, the series offers features such as starlight , Smart IR technology , intelligent image analysis techniques. It provides excellent image quality and intelligent and efficient event reminders . This series provides IP67 weatherproof and IK10 vandal-proof protection feature. Give customers more value

Functions

Wide Dynamic Range

Embeded with industry leading wide dynamic range (WDR) technology, vivid picutures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Intelligent Video System (IVS)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed, ideal for business intelligence, and Facial Detection, for searching or identification of individuals.

Environmental

With a temperature range of-40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

- · 1/3" 4Megapixel progressive scan CMOS
- · H.265&H.264 triple-stream encoding
- · 25/30fps@4M(2688×1520)
- · Smart Detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- · Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (3.6mm,6mm optional)
- · Built-in Mic
- · Max. IR LEDs Length 50m
- · Micro SD memory, IP67, PoE











Protection

Supporting ±30% input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 4KV lightning rating provides protectection against the camera and its structure from the effects of lightning.

Smart H.265+

Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265.

HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264 , some retain the original technology , while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream , encoding quality , and the delay between algorithm complexity , optimize settings specific contents include : Improve compression efficiency , improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay , reduce complexity , etc



Technical Specification							White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Camera						Gain Control	Auto/Manual	
		1/3" /Maganiyal progressive scan CMOS					Noise Reduction	3D DNR
Image Sensor		1/3" 4Megapixel progressive scan CMOS						
Effective Pixels		2688(H)x1520(V)					Motion Detetion	Off / On (4 Zone, Rectangle)
RAM/ROM		512MB/32MB					Region of Interest	Off / On (4 Zone)
Scanning System		Progressive Auto/Manual 1/3/4\\circ\1/100000c					Electronic Image Stabilization (EIS)	N/A
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s					Smart IR	Support
Minimum Illumination		0.08Lux/F2.0(Color,1/3s,30IRE) 0.3Lux/2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on)					Defog	N/A
S/N Ratio		More than 50dB					Digital Zoom	16x
IR Distance		Distance up to 50m (164ft)					Flip	0°/90°/180°/270°
IR On/Off Control		Auto/ Manual					Mirror	Off / On
IR LEDs		1					Privacy Masking	Off / On (4 Area, Rectangle)
Lens							Audio	
Lens Type		Fixed						6744 167444 144616796
Mount Type		Board-in					Compression	G.711a/ G.711Mu/ AAC/ G.726
Focal Length		2.8mm (3.6mm, 6mm optional)					Network	
Max. Aperture		F2.0 (F2.0, F2.0)					Ethernet	RJ-45 (10/100Base-T)
Angle of View Optical Zoom Focus Control		H:104° (87°, 55°), V:57° (48°, 31°) N/A Fixed					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; SNMP
Close Focus Dis	stance	N/A					Interoperability	ONVIF, PSIA, CGI
	Lens	Detect	Observe	Recognize	Identify		Streaming Method	Unicast / Multicast
DORI Distance	2.8 mm	63m(207ft)	25m(82ft)	13m(43ft)	6m(20ft)		-	
	3.6 mm 6.0 mm	80m(262ft) 117m(384ft)	32m(105ft)		8m(26ft) 12m(39ft)		Max. User Access	10 Users / 20 Users
Pan/Tilt/Rotation		117m(384ft) 47m(154ft) 23m(75ft) 12m(39ft)					Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB
Pan/Tilt/Rotat	ion Range	Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360°					Web Viewer	IE, Chrome, Firefox, Safari
Intelligence	2						Management Software	Smart PSS, DSS, Easy4ip
IVS		Tripwire, Intrusion, Object Abandoned/Missing					Smart Phone	IOS, Android
Advanced Inte	lligent Functions	Face Detection					Certifications	
Video							Certifications	CE (EN 60950:2000)
Compression		H.265+/H.265/H.264+/H.264					Certifications	UL:UL60950-1 FCC: FCC Part 15 Subpart B
Streaming Cap	ability	3 Streams					Interface	rec. rec rait 13 Subpart B
		4M(2688×1520)/3M(2304×1296)/ 1080P(1920×1080)/1.3M(1280x960)/						
Resolution		720P(1280×720)/D1(704×576/704×480)/ VGA(640×480)/CIF(352×288/352×240)					Video Interface	N/A
Frame Rate		Main Stream: 4M(1~25/30fps)					Audio Interface	Built-in Mic
		Sub Stream: D1(1~25/30fps)					RS485	N/A
		Third Stream: 720P(1~25/10fps)					Alarm	N/A
Bit Rate Control		CBR/VBR					Electrical	
Bit Rate		H.264: 24~10240Kbps					Power Supply	DC12V, PoE (802.3af)(Class 0)
		H.265: 14~9984Kbps					Power Consumption	<5W
Day/Night		Auto(ICR) / Color / B/W BIC / HIC / WDR(120dR)						
BLC Mode		BLC / HLC / WDR(120dB)						

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	Ф106mm×93.7mm (4.17"×3.69")
Net Weight	0.47Kg (1.04lb)
Gross Weight	0.65Kg (1.43lb)

Ordering Information					
Туре	Part Number	Description			
	DH-IPC- HDW4431EMP-AS- 0360B	4MP IR Eyeball Network Camera, PAL			
	DH-IPC- HDW4431EMN-AS- 0360B	4MP IR Eyeball Network Camera, NTSC			
	IPC-HDW4431EMP- AS	4MP IR Eyeball Network Camera, PAL			
	IPC-HDW4431EMN- AS	4MP IR Eyeball Network Camera, NTSC			
	DH-IPC- HDW4431EMP-AS- 0280B	4MP IR Eyeball Network Camera, PAL			
	DH-IPC- HDW4431EMN-AS- 0280B	4MP IR Eyeball Network Camera, NTSC			
4MP camera	IPC-HDW4431EMP- AS-0280B	4MP IR Eyeball Network Camera, PAL			
	IPC-HDW4431EMN- AS-0280B	4MP IR Eyeball Network Camera, NTSC			
	DH-IPC- HDW4431EMP-AS- 0600B	4MP IR Eyeball Network Camera, PAL			
	DH-IPC- HDW4431EMN-AS- 0600B	4MP IR Eyeball Network Camera, NTSC			
	IPC-HDW4431EMP- AS-0600B	4MP IR Eyeball Network Camera, PAL			
	IPC-HDW4431EMN- AS-0600B	4MP IR Eyeball Network Camera, NTSC			
	PFB204W	Wall mount			
Accessories (optional)	PFA139	Junction box			
	PFA152	Pole Mount			

Accessories

Optional:







PFA139 Junction Box

PFB204W Wall Mount

PFA152 Pole Mount

Junction Mount	Pole Mount
PFA139	PFB204W + PFA152
Wall Mount	
PFB204W	

Dimensions (mm/inch)





