

# OR-D2325FEM-A-IR 2MP 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

#### Starlight Technology

Featuring Dahua's Starlight Technology, this camera is ideal for applications with challenging lighting conditions. Its low-light performance delivers usable video with minimal ambient light. Even in extreme low-light conditions, Starlight Technology is capable of delivering color images in near complete darkness (0.009 lux).

#### 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-30 °C to +60 °C (-22 °F to +140 °F), the

- $\cdot$  1/2.8" 2Megapixel progressive scan STARVIS^{\rm TM} CMOS
- · H.265&H.264 triple-stream encoding
- · 50/60fps@1080P(1920×1080)
- · Smart detection supported
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- $\cdot$  Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8mm fixed lens (3.6mm,6mm optional)
- $\cdot$  Built-in Mic
- $\cdot$  Max. IR LEDs Length 50m
- · Micro SD memory, IP67, PoE



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.

#### Protection

Supporting  $\pm 30\%$  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



# Pro Series |OR-D2325FEM-A-IR

### **Technical Specification**

Camera					
Image Sensor		1/2.8" 2Megapixel progressive scan CMOS			
Effective Pixels		1920(H) x 1080(V)			
RAM/ROM		256MB/32MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s			
Minimum Illumination		0.009Lux/F2.0( Color,1/3s,30IRE) 0.07Lux/2.0( Color,1/30s,30IRE) 0Lux/F2.0(IR on)			
S/N Ratio		More than 50dB			
IR Distance		Distance up to 50m (164ft)			
IR On/Off Control		Auto/ Manual			
IR LEDs		1			
Lens					
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		2.8mm (3.6mm,6mm optional)			
Max. Aperture		F2.0 (F2.0, F2.0)			
Angle of View		H:110° (87°, 51°), V:58° (48°, 30°)			
Optical Zoom		N/A			
Focus Control		Fixed			
Close Focus Dis	stance	N/A			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	44m(144ft)	17m(56ft)	9m(30ft)	4m(13ft)
DONIDIStatice	3.6 mm	55m(180ft)	22m(72ft)	11m(36ft)	6m(20ft)
	6.0 mm	81m(266ft)	32m(105ft)	16m(52ft)	8m(26ft)
Pan/Tilt/Ro					
Pan/Tilt/Rotati	on Range	Pan:0°~360°; Tilt:0°~78°; Rotation:0°~360°			
Intelligence	:				
IVS		Tripwire, Intrusion, Object Abandoned/Missing			
Advanced Intel	ligent Functions	Face Detection			
Video					
Compression		H.265+/H.265/H.264+/H.264			
Streaming Capa	ability	3 Streams			
Resolution		1080P(1920x1080)/1.3M(1280x960)/ 720P(1280x720)/D1(704x576/704x480)/ VGA(640x480)/CIF(352x288/352x240)			
		Main Stream: 1080P/720P(1~50/60fps)			
Frame Rate		Sub Stream: D1(1~50/60fps)			
		Third Stream: 1080P(1~25/30fps)			
Bit Rate Control		CBR/VBR			
Bit Rate		H.264: 24~9472Kbps H.265: 14~5632Kbps			
Day/Night		Auto(ICR) / Color / B/W			
BLC Mode		BLC / HLC / WDR(120dB)			

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 Stabilization (EIS)	N/A				
Smart IR	Support				
Defog	N/A				
Digital Zoom	16x				
Flip	0°/90°/180°/270°				
Mirror	Off / On				
Privacy Masking	Off / On (4 Area, Rectangle)				
Audio					
Compression	G.711a/ G.711Mu/ AAC/ G.726				
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; SNMP				
Interoperability	ONVIF, PSIA, CGI				
Streaming Method	Unicast / Multicast				
Max. User Access	10 Users /20 Users				
Edge Storage	NAS Local PC for instant recording Mirco SD card 128GB				
Web Viewer	IE, Chrome, Firefox, Safari				
Management Software	Smart PSS, DSS, Easy4ip				
Smart Phone	IOS, Android				
Certifications					
Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B				
Interface					
Video Interface	N/A				
Audio Interface	Built-in Mic				
RS485	N/A				
Alarm	N/A				
Electrical					
Power Supply	DC12V, PoE (802.3af)(Class 0)				
Power Consumption	<5W				

## Rro Series | OR-D2325FEM-A-IR

#### Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +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
2MP camera	DH-IPC- HDW4231EMP-AS- 0360B	2MP IR Eyeball Network Camera, PAL
	DH-IPC- HDW4231EMN-AS- 0360B	2MP IR Eyeball Network Camera, NTSC
	IPC-HDW4231EMP- AS-0360B	2MP IR Eyeball Network Camera, PAL
	IPC-HDW4231EMN- AS-0360B	2MP IR Eyeball Network Camera,NTSC
	DH-IPC- HDW4231EMP-AS- 0280B	2MP IR Eyeball Network Camera, PAL
	DH-IPC- HDW4231EMN-AS- 0280B	2MP IR Eyeball Network Camera, NTSC
	IPC-HDW4231EMP- AS-0280B	2MP IR Eyeball Network Camera, PAL
	IPC-HDW4231EMN- AS-0280B	2MP IR Eyeball Network Camera, NTSC
	DH-IPC- HDW4231EMP-AS- 0600B	2MP IR Eyeball Network Camera, PAL
	DH-IPC- HDW4231EMN-AS- 0600B	2MP IR Eyeball Network Camera, NTSC
	IPC-HDW4231EMP- AS-0600B	2MP IR Eyeball Network Camera, PAL
	IPC-HDW4231EMN- AS-0600B	2MP IR Eyeball Network Camera, NTSC
Accessories (optional)	PFB204W	Wall mount
	PFA139	Junction box
	PFA152	Pole Mount

#### Accessories

#### **Optional:**



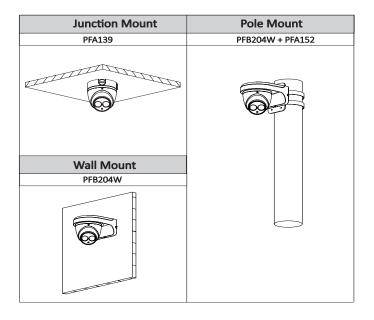




PFA139 Junction Box

PFB204W Wall Mount

PFA152 Pole Mount



### Dimensions (mm/inch)

