

# 12 MP Network Fisheye Camera

180° Panoramic IR Fisheye Camera



# **System Overview**

Dahua Fisheye Cameras provide detailed panoramic views in a compact, low-profile design. The progressive-scan sensor combined with a fisheye lens provide a high-quality 180° panoramic view without blind spots, making the camera the ideal solution for wide and open areas, such as airports, shopping malls and banks. The camera offers multiple dewarp modes for different installations and configurations that enhance the video for a specific scene. The IP67 environmental protection rating and the IK10 vandal resistance ensure the camera operates in the harshest environments.

### **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.

# **Dewarping Mode**

Fisheye dewarping solves the problem of distortion in the circular panoramic view. The camera offers multiple dewarping modes for different installations and configurations, either with a Dahua XVR, NVR, via the Web interface. Each dewarping mode offers options to adjust each scene.

- 1/1.7-in. 12 MP Progressive-scan CMOS Sensor
- 12 MP (4000 x 3000) at 25 fps Maximum Resolution
- Triple-stream Encoding
- H.265 and H.264 Dual Codecs
- Multiple Dewarp Modes
- Day/Night (ICR), 3DNR, AWB, AGC, BLC
- Maximum IR Distance 10 m (33 ft)
- IP67 Ingress Protection, IK10 Vandal Resistance
- Five-year Warranty\*











#### Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening 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 10 m (33 ft).

# High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

### Cybersecurity

Dahua network cameras are equipped with a series of key cybersecurity technologies including: security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage. These technologies improve the camera's ability to prevent malicious access and to protect data.

#### Protection

The camera allows for  $\pm 25\%$  input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving environments.

Camara				Frame		
Camera				Rate	Sub Stream 1	D1 at 30 fps
Image Sensor	1/1.7-in. 6 MP CMOS			Rit Pato	Sub Stream 2 Control	1.3 MP at 30 fps CBR, VBR
Total Sensor Pixels	4000(H) x 3000(V)			Bit Rate		H.265: 3 Kbps to 9984 Kbps H.264: 8 Kbps to 16384 Kbps
RAM/ROM	1024 MB / 128 MB			Day/Nig	ht .	Auto (ICR), Color, B/W
Scanning System	Progressive			BLC Mo		BLC, HLC, DWDR
				White B	alance	Auto, Natural, Street Lamp, Outdoor, Manual
Electronic Shutter Speed	Auto, Manual, 1/3 s to 1/100,000 s		Gain Control		Auto, Manual	
Minimum Illumination	Color: 0.001 lux at F2.8 Color: 0.01 lux at F2.8 (			Noise R	eduction	3D DNR
	0 lux at F2.8 with IR on			Motion	Detection	Off, On (4 Zone, Rectangle)
S/N Ratio	More than 50 dB		Region	of Interest	Off, On (4 Zone)	
IR Distance	Up to 10 m (32.81 ft)			Advance	ed Features	Smart IR, Defog
IR On/Off Control	Auto, Manual			Digital Z	loom	16x
IR LEDs	Three (3)			Privacy	Masking	Off, On (4 Area, Rectangle)
	· /			Audio		
Lens				Compre	ssion	G.711a, G.711Mu, G.726
Lens Type	Fixed		Network			
Mount Type	Board-in			Etherne	t	M12 D-coded Connector (100/1000 Base-T)
Focal Length	1.98 mm		Protocol	HTTP, HTTPs, TCP, ARP, RTSP, RTP, UDP, SMTP, FTP DHCP, DNS, DDNS, PPPOE, IPv4/v6, QoS, UPnP, NTI		
Maximum Aperture	F2.8					Bonjour, 802.1x, Multicast, ICMP, IGMP, SNMP
Angle of View	Horizontal: 180° Vertical: 180°		Interop	•	ONVIF, PSIA, CGI	
Focus Control	Fixed			Streami	ng Method	Unicast, Multicast
DORI Distance <sup>1</sup>				Maximu	ım User Access	10 Users, 20 Users
Detect (8 ppf)	Observe (19 ppf) Re	ecognize (38 ppf)	Identify (76 ppf)	Edge Sto	orage	Network Attached Storage (NAS) Local PC for instant recording Micro SD Card Slot, maximum 128 GB
42 m (138 ft)	17 m (56 ft)	8 m (27 ft)	4 m (14 ft)	Web Vie	awar	IE, Firefox, Safari
Video						
Compression	H.265, H.264			Manage	ment Software	Smart PSS, DSS
Streaming Capability	Three (3) Streams		Mobile	Operating System	IOS, Android	
Resolution	12 MP (4000 x 3000), 8 3 MP (2048 x 1536), 1.3 CIF (352×288)			Cyberse	curity	Video Encryption, Firmware Encryption, Configurat Encryption, Digest, WSSE, Account Lockout, Securit Logs, IP/MAC Filtering, Generating and Importing X.509 Certification, Syslog, HTTPS, 802.1x, Trusted Boot, Trusted Execution, Trusted Upgrade
Effective Maximum Resolu	ition, based on Dewar	ping Mode				Boot, Husted Execution, Husted Opgrade
Dewarping Method	Mount Location	Resoluti	on (H x V)	Certifi	cations	
	Ceiling/Ground	4096 x 10	024	Safety		UL60950-1 EN 60950:2000
1 Panoramic	Wall	2048 x 10	024		nagnetic ibility (EMC)	FCC Part 15 Subpart B
2 Panoramic	Ceiling/Ground	2048 x 20	048	Interfa	ace	
1 Original + 3 Regions	All Locations	2048 x 20	048		nterface	Input: One (1) Channel, Built-in Microphone Output: One (1) Channel
4 Regions	All Locations	2048 x 20	048			Input: Two (2) Channels (5 VDC, 5 mA)
1 Region	All Locations	1280 x 10	024	Alarm	ical	Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5
				Electr	ıcaı	

<sup>1.</sup> The DORI distance is a measure of the general proximity for a specific classification to help pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specifications and lab test results according to EN 62676-4, the standard that defines the criteria for the Detect, Observe, Recognize and Identify classifications.

Power Consumption

< 12 W

# Mobile Series | DH-IPC-EBW81230N M12

# Environmental

Operating Conditions	-30 °C to +60 °C (-22 °F to +140 °F), Less than 95% RH
Storage Conditions	-30 °C to +60 °C (-22 °F to +140 °F), Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

# Construction

Casing	Metal
Dimensions	ø149.80 mm x 50.70 mm (ø5.90 in. x 2.0 in.)
Net Weight	0.58 kg (1.28 lb)
Gross Weight	1.0 kg (2.20 lb)

# **Ordering Information**

Туре	Part Number	Description
6 MP Fisheye	DH-IPC-EBW81230 M12	12 MP Panoramic Network IR Fisheye Camera,
	PFA100	Mount Adapter (Required for PFB302S Wall Mount)
Accessories, optional	PFA105	Mount Adapter (Required for PFB300C Ceiling Mount)
	PFA110	Mount Adapter (Required for PFB300C Ceiling Mount)
	PFA152	Pole Mount (For use with PFB302S Wall Mount)
	PFB300C	Ceiling Mount (Requires PFA105 and PFA110 Mount Adapters)
	PFB302S	Wall Mount (Requires PFA100 Mount Adapter)

# Accessories

# Optional:







PFA100 Mount Adapter

PFB302S Wall Mount

PFA152 Pole Mount



Mount Adapter





PFA110 Mount Adapter



Ceiling Mount

Wall Mount	Pole Mount	
PFA100+PFB302S	PFA100+PFB302S+PFA152	
Ceiling Mount		
PFA105+PFA110+PFB300C		

# Dimensions (mm/inch) ø149.80 mm (ø5.90 in.) 50.70 mm (2.0 in.) ø90.0 mm (ø3.54 in.) 3 x Ø6.20 mm (Ø0.25 in.)

