

12 MP Network Fisheye Camera

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 360° 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 Analytics+ functions at the edge — performing complex real-time perimeter people counting and queue management. The IP67 environmental protection rating and the IK10 vandal resistance ensure the camera operates in the harshest environments.

Functions

People Counting

The camera uses complex real-time people counting algorithms to deliver accurate flow statistics from two distinct people counting functions, Line Crossing and Regional. The line crossing function counts the number of people crossing a defined line, and the regional function counts the number of people in a distinct, user-defined area. People counting is ideal for measuring the number of customers entering or exiting a location and to monitor groups of people in a distinct location.

Intelligent Video System (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area.

Heat Map

The built-in IVS features heat map functionality, an advanced feature that adds business intelligence to your security system. Intelligent Analysis tracks and stores daily, weekly, monthly, and yearly people flow through a defined scene and produces a configurable report. The system uses this data to produce a Heat Map, a two-dimensional representation of data that provides an immediate visual summary of information. Heat Maps can identify the most active areas of a retail space providing valuable data analysis for commercial applications.

- 1/1.7-in. 12 MP Progressive-scan CMOS Sensor
- 12 MP (4000 x 3000) at 30 fps Maximum Resolution
- Triple Stream Encoding
- Smart H.265+ and Smart H.264+ Dual Codecs
- Built-in Microphone
- Multiple Dewarp Modes
- Analytics+ Functions People Counting and Queue Management
- Intelligent Video System with Intelligent Business Analysis
- Maximum IR Distance 10 m (33 ft)
- IP67 Ingress Protection and IK10 Vandal Resistance
- Five-year Warranty*









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.

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.

Environmental

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -30° C to $+60^{\circ}$ C (-22° F to $+140^{\circ}$ F). The camera complies with an IK10 impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.). Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.



Technical Specificat	ion			
Camera				
Image Sensor	1/1.7-in. 12 MP CM	OS		
Total Sensor Pixels	4000(H) x 3000(V)			
RAM/ROM	4 GB / 4 GB			
Scanning System	Progressive			
Electronic Shutter Speed	Auto, Manual, 1/3 s	to 1/100	,000 s	
Minimum Illumination	Color: 0.001 lux at F Color: 0.01 lux at F2 0 lux at F2.0 with IR	.0 (1/30 s		
S/N Ratio	49.70 dB			
IR Distance	Up to 10 m (32.81 f	t)		
IR On/Off Control	Auto, Manual			
IR LEDs	Three (3)			
Lens	Lens			
Lens Type	Fixed			
Mount Type	M12			
Focal Length	1.98 mm			
Maximum Aperture	F2.0			
Angle of View	Horizontal: 185° Vertical: 180°			
Focus Control	Fixed			
DORI Distance ¹				
Detect (8 ppf)	Observe (19 ppf)	Recogn	ize (38 ppf)	Identify (76 ppf)
40.0 m (131.23 ft)	16.0 m (52.49 ft)	8.0 m	(26.25 ft)	4.0 m (13.12 ft)
Video				
Compression	Smart H.265+, H.265, Smart H.264+, H.264, H.264H, H.264B, MJPEG			
Streaming Capability	Three (3) Streams			
Resolution	12 MP (4000 x 3000), 8 MP (2880 x 2880), 2880 x 2160, 3 MP (2048 x 1536), 1.3 MP (1280 x 960), D1 (704 x 480), CIF (352 x 240)			
Effective Maximum Resolution, based on Dewarping Mode				
Dewarping Mode	Mount Location		Resolution (H x V)	
1 Original			4000 x 3000	
1 Panoramic			4096 x 1024	
2 Panoramic	2432 x 2432			
1 Region	1216 x 1216			
2 Regions			2432 x 2432	
4 Regions	2432 x 2432			
1 Original + 3 Regions			2432 x 2432	

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.

Frame Rate				
Bit Rate Control CBR, VBR Bit Rate Control CBR, VBR Bit Rate H.265: 52 Kbps to 16384 Kbps H.264: 88 Kbps to 16384 Kbps H.264: 88 Kbps to 16384 Kbps H.264: 88 Kbps to 16384 Kbps BLC Mode Digital WDR White Balance Auto, Natural, Street Lamp, Outdoor, Manual, Regional Custom Gain Control Auto, Manual Noise Reduction Motion Detection Region of Interest Off, On (4 Zone) Advanced Features Smart IR Digital Zoom Privacy Masking Off, On (4 Zone) Audio Compression G.711a, G.711Mu, AAC, G.726 Network Ethernet HTTP, TCP, ARP, RTSP, RTP, UDP, RTCP, SMTP, FTP, DHCP, DNS, DDNS, PPPOE, IPV4I/v6, SNMP, COS, UPPP, NTP DHCP, DNS, DDNS, PPPOE, IPV4I/v6, SNMP, COS, UPPP, NTP Chromal Maximum User Access 20 Users (total bandwidth: 240 MB) Edge Storage FIP Micro SD Card, maximum 256 GB It version 9 or higher Firefox version 48.0.2 or higher Chrome version 48.0.2 or higher Chrome version 48.0.2 or higher Firefox version 48.0.2 or higher Chrome version 48.0.2 or higher Chrome version 48.0.2 or higher Smart PSS, DSS Mobile Operating System UL60950-1; CAN/CSA C22.2 No.60950-1-07 EN.60950-1:2006 FA11:2009+A12:2011+A2:2013 IEC 60950-1:2005 (Sass B; th S1000-3:22014; EN. S1003-3:2013; EN	Main Stream		12 MP (4000 x 3000) at 30 fps	
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Electromagnetic Compatibility (EMC)			EN 60950-1:2006+A11:2009+A1:2010+A12:2011+ A2:2013	
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Power Supply 12 VDC or PoE (802.3af, Class 0) Standard: 6.2 W with IR ON: 9.2 W Consumption PoE Standard: 9.2 W	Electrical		- 1. Fact 1. 10 (2) Siluminos (b) y contact, 50 y	
Power Consumption PoF Standard: 6.2 W with IR ON: 9.2 W Standard: 9.2 W			12 VDC or PoE (802.3af, Class 0)	
Consumption Standard: 9.2 W		12 VDC	Standard: 6.2 W	
		PoE	Standard: 9.2 W	

Environmental	
Operating Conditions	-30 °C to +45 °C (-22 °F to +113 °F), Less than 95% RH
Storage Conditions	-30 °C to +70 °C (-22 °F to +158 °F), Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10
Construction	
Casing	Metal and Plastic
Dimensions	ø149.80 mm x 59.80 mm (ø5.90 in. x 2.35 in.)
Net Weight	0.77 kg (1.70 lb)
Gross Weight	1.16 k g (2.56 lb)

Anal	vtics+	Function ²	
Alla	y tics=	FULLCUOIT	

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PEOD	ie Cou	שוווווו

Delivers accurate flow statistics from the following methods:
 Region: counts the number of people in a defined area, up to four (4) areas simultaneously.
 Queue Management: tracks the number of people in line and the amount of wait time.

Intelligent Video System Functions²

IVS triggers an alarm a	nd takes a defined action	for the following events:

Standard Features	 Tampering with the camera. Error writing to an onboard Micro SD card. Error sending or receiving data over the network. Unauthorized access to the camera. IP Address Conflict
Premium Features	
Tripwire	A target crosses a user-defined line.
Intrusion	A target enters or exits a defined perimeter.
Advanced Feature	
Heat Map	Generates a visual representation of data.

Ordering Information			
Туре	Part Number	Description	
12 MP Fisheye	DH-IPC-EBW81242N	12 MP Panoramic Network IR Fisheye Camera	
	PFA100	Mount Adapter	
	PFA105	Mount Adapter	
	PFA110	Mount Adapter	
	DH-PFA132-E	Junction Box	
Accessories, optional	PFA150	Pole Mount (use with PFB300C or DH-PFA132-E)	
	PFA151	Corner Mount (use with DH-PFA132-E)	
	PFB300C	Ceiling Mount (use with PFA100)	
	PFB302S	Wall Mount (use with PFA100)	

Junction Box	Celling Mount	Wall Mount
PFA132-E	PFB300C+PFA100	PFB302S+PFA100

Accessories

Optional:







PFA150 Pole Mount



PFA105 Mount Adapter



PFB300C Ceiling Mount



PFA110 Mount Adapter



DH-PFA132-E Junction Box



PFB302S Wall Mount

Dimensions (mm/inch)

The Face Capture, Perimeter Protection, and IVS functions cannot be used at the same time, only one Analytics+ or IVS function can be used at a time. In addition, the Smart H.265+ and the Smart H.264+ cannot

be used simultaneously with either an Analytics+ or an IVS feature.





