

6 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.

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. In addition to scene analytics, the camera detects and captures a snapshot of human face in a defined area within a scene, and offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

Intelligent Business Analysis

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.

- 1/1.8-in. 6 MP Progressive-scan CMOS Sensor
- ▶ 6 MP (3072 x 2048) at 30 fps Maximum Resolution
- Triple-stream Encoding
- H.265 and H.264 Dual Codecs
- Multiple Dewarp Modes
- Day/Night (ICR), 3DNR, AWB, AGC, BLC
- Intelligent Video System with Intelligent Business Analysis
- Maximum IR Distance 10 m (33 ft)
- IP67 Ingress Protection, 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.

Protection

The camera allows for ±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.



echnical Specificat	uon			
Camera				
nage Sensor	1/1.8-in. 6 MP CMO	S		
otal Sensor Pixels	3072(H) x 2048(V)			
AM/ROM	1024 MB / 128 MB			
canning System	Progressive			
lectronic Shutter Speed	Auto, Manual, 1/3 s to 1/100,000 s			
linimum Illumination	Color: 0.002 lux at F2.0 (1/3 s, 30 IRE) Color: 0.02 lux at F2.0 (1/30 s, 30 IRE) 0 lux at F2.0 with IR on			
/N Ratio	More than 50 dB			
R Distance	Up to 10 m (32.81 ft	Up to 10 m (32.81 ft)		
R On/Off Control	Auto, Manual			
RLEDs	Three (3)			
ens				
ens Type	Fixed			
lount Type	Board-in			
ocal Length	1.7 mm			
laximum Aperture	F2.0			
ngle of View	Horizontal: 180° Vertical: 180°			
ocus Control	Fixed			
OORI Distance ¹				
Detect (8 ppf)	Observe (19 ppf)	Recognize (3	8 ppf)	Identify (76 ppf)
28 m (92 ft)	11 m (36 ft)	6 m (20 f	t)	3 m (10 ft)
'ideo				
ompression	H.265, H.264			
treaming Capability	Three (3) Streams			
esolution	6 MP (3072 x 2048), 3 MP (2048 x 1536), 1.3 MP (1280 x 960)	, UXGA (1600 x	1200),	52×288)
ffective Maximum Resol	ution, based on Dew	varping Mode		
ewarping Method	Mount Location	Re	solutio	n (H x V)
	Ceiling/Ground	409	96 x 102	4
Panoramic	Wall	20-	48 x 102	4
Panoramic	Ceiling/Ground	20-	48 x 204	8
Original + 3 Regions	All Locations	20-	48 x 204	8
Regions	All Locations	20-	48 x 204	8
Region	All Locations	12	80 x 102	4

	1 Original + 3 Regions	All Locations	2048 X 2048
	4 Regions	All Locations	2048 x 2048
	1 Region	All Locations	1280 x 1024
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rią re	ght camera for your needs. The DC	f the general proximity for a specific cl RI distance is calculated based on sen e standard that defines the criteria for	sor specifications and lab test
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Ī		Main Stream	6 MP at 30 fps
	Frame Rate	Sub Stream 1	D1 at 30 fps
		Sub Stream 2	1.3 MP at 30 fps
	Bit Rate	Control	CBR, VBR
	Bit Rate		H.265: 3 Kbps to 9984 Kbps H.264: 8 Kbps to 16384 Kbps
	Day/Nig	ht	Auto (ICR), Color, B/W
	BLC Mod	de	BLC, HLC, DWDR
	White B	alance	Auto, Natural, Street Lamp, Outdoor, Manual
	Gain Co	ntrol	Auto, Manual
	Noise Re	eduction	3D DNR
	Motion	Detection	Off, On (4 Zone, Rectangle)
	Region	of Interest	Off, On (4 Zone)
	Advance	ed Features	Smart IR, Defog
	Digital Z	oom	16x
	Privacy	Masking	Off, On (4 Area, Rectangle)
	Audio		
	Compre	ssion	G.711a, G.711Mu, AAC, G.726
	Netwo	ork	
	Etherne	t	M12 D-coded Connector (100/1000 Base-T)
	Protoco	I	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
	Interope	erability	ONVIF, PSIA, CGI
	Streami	ng Method	Unicast, Multicast
	Maximu	m User Access	10 Users, 20 Users
	Edge Sto	orage	Network Attached Storage (NAS) Local PC for instant recording Micro SD Card Slot, maximum 128 GB
	Web Vie	ewer	IE, Firefox, Safari
	Manage	ment Software	Smart PSS, DSS
	Mobile (Operating System	IOS, Android
	Certifi	cations	
	Safety		UL60950-1 EN 60950:2000
		nagnetic ibility (EMC)	FCC Part 15 Subpart B
	Interfa	ace	
	Audio In	terface	Input: One (1) Channel, Built-in Microphone Output: One (1) Channel
	Alarm		Input: Two (2) Channels (5 VDC, 5 mA) Output: Two (2) Channels (30 VDC, 1 A; 50 VAC, 0.5 A)
	Electri	cal	
	Power S	upply	12 VDC ±25% or PoE (802.3af, Class 0)
	Power C	consumption	< 12 W

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)

Intelligence

IVS triggers an alarm and 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.
Premium Features	
Motion	An object moves through any part of the scene.
Tripwire	A target crosses a user-defined line.
Intrusion	A target enters or exits a defined perimeter.
Scene Change	A person or object moves the camera to change the scene or covers the camera to obscure the scene.
Abandoned/Missing Object	A target leaves an object in designated area, or a target removes an object from the same designated area.
Advanced Features	
Heat Man	Generates a visual representation of data

Ordering Information

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Туре	Part Number	Description
6 MP Fisheye	DH-IPC-EBW8630N M12	6 MP Panoramic Network IR Fisheye Camera,
Accessories, optional	PFA100	Mount Adapter (Required for PFB302S Wall Mount)
	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.) 3 x Ø6.20 mm (Ø0.25 in.)

