

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 $\pm 25\%$ 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.

Technical Specification			
Camera			
Image Sensor	1/1.8-in. 6 MP CMOS		
Total Sensor Pixels	3072(H) x 2048(V)		
RAM/ROM	1024 MB / 128 MB		
Scanning System	Progressive		
Electronic Shutter Speed	Auto, Manual, 1/3 s to 1/100,000 s		
Minimum 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		
S/N Ratio	More than 50 dB		
IR Distance	Up to 10 m (32.81 ft)		
IR On/Off Control	Auto, Manual		
IR LEDs	Three (3)		
Lens			
Lens Type	Fixed		
Mount Type	Board-in		
Focal Length	1.7 mm		
Maximum Aperture	F2.0		
Angle of View	Horizontal: 180° Vertical: 180°		
Focus Control	Fixed		
DORI Distance ¹			
Detect (8 ppf)	Observe (19 ppf)	Recognize (38 ppf)	Identify (76 ppf)
28 m (92 ft)	11 m (36 ft)	6 m (20 ft)	3 m (10 ft)
Video			
Compression	H.265, H.264		
Streaming Capability	Three (3) Streams		
Resolution	6 MP (3072 x 2048), 4 MP (2048 x 2048), 3 MP (2048 x 1536), UXGA (1600 x 1200), 1.3 MP (1280 x 960), D1 (704 x 576), CIF (352x288)		
Effective Maximum Resolution, based on Dewarping Mode			
Dewarping Method	Mount Location	Resolution (H x V)	
1 Panoramic	Ceiling/Ground	4096 x 1024	
	Wall	2048 x 1024	
2 Panoramic	Ceiling/Ground	2048 x 2048	
1 Original + 3 Regions	All Locations	2048 x 2048	
4 Regions	All Locations	2048 x 2048	
1 Region	All Locations	1280 x 1024	

1. 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.

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 Map	Generates a visual representation of data.

Ordering Information

Type	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



PFA105
Mount Adapter



PFA110
Mount Adapter



PFB300C
Ceiling Mount

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

Dimensions (mm/inch)

