

4 MP Fixed HDCVI Fisheye Camera

360° WDR Fisheye Camera

HDCVI



- 1/3-in. Progressive-scan CMOS Sensor
- Maximum 4 MP at 30 fps
- 1.18 mm Panoramic Lens
- True WDR (120 dB), 3D DNR
- HD and SD Dual-output
- IK10 Vandal Resistance













System Overview

Experience the superior clarity of real-time 4 MP video while leveraging your existing coaxial infrastructure. The 4 MP HDCVI fisheye camera offers a 360° panoramic view with multiple dewarping modes for clear pictures. The camera delivers high quality images with crisp details and accurate color rendition, even under complex lighting conditions thanks to True WDR (120 dB). The compact camera replaces multiple single-sensor cameras providing a higher return on investment for your security dollars, making it an excellent choice for small to mid-size business applications.

Functions

Four Signals over One Coaxial Cable

HDCVI technology simultaneously transmits four signals (video, power, audio and data) over a single coaxial cable. Dual-way data transmission allows the HDCVI camera to communicate with an HCVR to send control signals or to trigger alarms. Moreover, HDCVI technology supports PoC for construction flexibility.

Long Distance Transmission

HDCVI technology guarantees real-time transmission over long distances without loss of video quality. HDCVI cameras provide the same resolution as most IP network camera systems using existing RG-59, RG-6, or CAT 6 UTP cabling.

Simplicity

HDCVI technology seamlessly integrates traditional analog surveillance systems with upgraded, high-quality HD video, making it the best choice to protect security investments. The plug and play approach enables full HD video surveillance without the hassles of configuring a network.

Multiple Outputs

The camera supports HDCVI and CVBS signal outputs simultaneously with two BNC connectors. These output signals allow the camera to integrate with various devices, including analog matrix systems and monitors.

360° Panoramic View

Dahua's Fisheye cameras allow for a 360° hemispherical image that can be dewarped in order to view individual elements separately. In environments that require broad coverage, panoramic cameras can do the job alone where several cameras would be needed otherwise. With a high resolution sensor providing a 360°view, blind spots are eliminated. Easy to install on a ceiling or wall, these cameras are well-suited for office buildings, parking garages, gas stations, and retail environments.

Dewarping Mode

Fisheye dewarping solves the problem of distortion in the circular panoramic view. The camera offers 10 dewarping modes for different installations and configurations, either with a Dahua XVR or on the Web. Each dewarping mode offers options to adjust each scene.

Wide Dynamic Range

For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Advanced 3DNR

3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua's advanced 3DNR technology delivers remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. 3DNR, in addition, effectively decreases the bandwidth and saves storage space.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera has an IK10 vandal resistance rating making it suitable for retial stores, manufacturing facilities, and commercial installations.

Supporting $\pm 25\%$ input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

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Camera			
Image Sensor	1/3-in CMOS Sen	1/3-in CMOS Sensor	
Effective Pixels	2688(H) x 1520(V	2688(H) x 1520(V), 4.1 MP	
Scanning System	Progressive	Progressive	
Electronic Shutter Speed		1/3 s to 1/100,000 s	
Minimum Illumination		Color: 0.01 Lux at F2.0 B/W: 0.001 Lux at F2.0	
S/N Ratio	More than 65 dB	More than 65 dB	
Lens			
Lens Type	Fixed Lens / Fixed	Fixed Lens / Fixed Iris	
Mount Type	Board-in	Board-in	
Focal Length	1.18 mm	1.18 mm	
Max Aperture	F2.0	F2.0	
Angle of View	360°	360°	
Close Focus Distance	100 mm (3.94 in.	100 mm (3.94 in.)	
Video			
Resolution	4 MP (2560 x 144	4 MP (2560 x 1440)	
Frame Rate	4 MP at 30 fps	4 MP at 30 fps	
Video Output		One (1) BNC HDCVI High-definition Channel and One (1) BNC CVBS Channel	
Transmission Distances ¹	RG-59/U Coax	720p: 500 m (1640.42 ft) 1080p: 400 m (1312.34 ft) 4 MP: 300 m (984.25 ft)	
	RG-6/U Coax	720p: 800 m (2624.67 ft) 1080p: 600 m (1968.50 ft) 4 MP: 600 m (1968.50 ft)	
	CAT 6 UTP (balun required)	720p: 380 m (1246.72 ft) 1080p: 380 m (1246.72 ft) 4 MP: 200 m (656.17 ft)	
Day/Night	Auto (Electronic),	Auto (Electronic), Manual	
OSD Menu	Multi-language	Multi-language	
BLC Mode	BLC, HLC, WDR	BLC, HLC, WDR	
WDR	True WDR (120 d	True WDR (120 dB)	
Gain Control	AGC	AGC	
Noise Reduction	2D/3D	2D/3D	
White Balance	Auto, Manual	Auto, Manual	

Certifications

Safety	UL60950-1+CAN/CSA C22.2 No.60950-1
Electromagnetic Compatibility (EMC)	CFR 47 FCC Part 15 Subpart B ANSI C63.4-2014

Electrical

Power Supply	12 VDC (± 25%)
Power Consumption	Maximum 2.2 W (at 12 VDC)

Environmental

Operating Conditions	-30° C to +60° C (-22° F to +140° F), Less than 90% RH * Initiate startup above -30° C (-22° F)
Storage Conditions	-30° C to +60° C (-22° F to +140° F), Less than 90% RH
Vandal Resistance	IK10

Construction

Casing	Aluminium
Dimensions	Ø110.0 mm x 56.0 mm (Ø4.3 in. x 2.2 in.)
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Net Weight	0.41 kg (0.90 lb)
Gross Weight	0.45 kg (0.99 lb)

^{1.} Transmission distance results verified by real-scene testing in Dahua's test laboratory. Actual transmission distances may vary due to external influences, cable quality, and wiring structures.

Ordering Information				
Туре	Part Number	Description		
4 MP Fisheye Camera	A42AR2	4 MP HDCVI WDR Fisheye Camera		
Accessories, Optional	PFA152	Pole mount (For use with PFB203W wall mount)		
	PFB203W	Wall mount (For use alone or with PFA152 pole mount)		
	PFM800	Passive HDCVI Balun		
	PFM810	POC Transceiver		

Dimensions (mm/inch)

Optional:



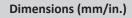






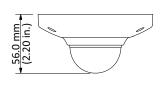
PFA152 Pole mount

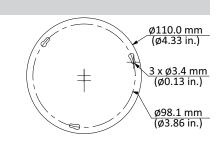
PFM800 Passive HDCVI Balun



Junction Mount

PFB203W





Pole Mount

PFB203W + PFA152



PFM810 POC Transceiver

