

4K HDCVI Fixed Dome Camera

8 MP Starlight IR Dome Camera



- 1/2-in. 8 MP Progressive-scan CMOS Sensor
- 4K (3840 x 2160) at 15 fps Maximum Resolution
- 2.8 mm Fixed Lens
- Starlight Technology for Ultra Low-light Applications
- True Wide Dynamic Range (120 dB) and 2D/3D Noise Reduction
- HD or SD Output, Switchable
- Maximum IR length 30 m (98 ft), Smart IR
- IIP67 Ingress Protection and IK10 Vandal Resistance
- Five-year Warranty*

















System Overview

Experience the superior clarity of Dahua's Ultra 4K HDCVI cameras for vast coverage and superior image details. Dahua Ultra 4K HDCVI series leverages existing coax infrastructures to deliver forensic-level images seamlessly and over long distances. The 4K HDCVI camera uses next-generation ISP chip technology developed by Dahua to deliver stunning video. This home-grown ISP features the latest image processing algorithms and is optimized for surveillance camera operations. With total control of the ISP features and production, Dahua can offer the latest security systems at a cost-effective price.

Functions

Three Signals over One Coaxial Cable

HDCVI technology simultaneously transmits video, 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.

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

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.

Broadcast-quality Audio

Audio information is used as supplementary evidence in video surveillance applications. This HDCVI camera transmits audio signals over the coaxial cable, eliminating the need for separate audio wiring. In addition, the camera uses unique audio processing and transmission technology that eliminates noise to best duplicate source audio, guaranteeing high-quality and highly effective audio information.

Multiple-format Support

The camera supports multiple video formats including, HDCVI, CVBS, AHD, and TVI. The camera can switch between these four formats via the OSD menu or the switch located on the video output cable, making the camera compatible with not only HDCVI DVRs but also most existing HD/ SD DVRs.

True Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. 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 complies with the IK10 Vandal Resistance 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. The camera allows for ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications, and its 4KV lightning rating provides effective protection for both the camera and its structure against lightning.

Technical Specific	ation			
Camera				
Image Sensor		1/2-in. CM0	OS Sensor	
Effective Pixels		3840 (H) x 2160 (V), 8 MP		
Scanning System		Progressive		
Electronic Shutter Speed		1/3 s to 1/100,000 s		
Minimum Illumination		Color: 0.005 Lux at F1.6, 30 IRE 0 Lux with IR on		
S/N Ratio		More than 65 dB		
IR Distance		Up to 30.0 m (98.43 ft)		
IR On/Off Control		Auto, Manual		
IR LEDs		One (1)		
Lens				
Lens Type		Fixed Lens, Fixed Iris		
Mount Type		Board-in		
Focal Length		2.8 mm		
Maximum Aperture		F1.6		
Angle of View		Horizontal: 87°		
Focus Control		Auto, Manual		
Close Focus Distance		1800 mm (70.87 in.)		
Pan / Tilt / Rotatio	n			
Pan/Tilt/Rotation		Pan: 0° to 35° Tilt: 0° to 75° Rotation: 0° to 35°		
DORI Distances ¹				
Detect (8 ppf)		serve ppf)	Recognize (38 ppf)	Identify (76 ppf)
84 m (276 ft)	3-	4 m 12 ft)	17 m (56 ft)	8 m (27 ft)
Video				
Maximum Resolution	8 MP (3	840 x 2160)		
	HDCVI		8 MP at 15 fps, 6 MP at 20 fps, or 4 MP at 30 fps	
Frame Rate	TVI		5 MP at 20 fps 4 MP at 30 fps	

	RG-59/U Coa	720p: 800 m (2624.67 ft) 1080p: 500 m (1640.42 ft) 4K: 500 m (1640.42 ft)			
Video Transmission ²	RG-6/U Coax	720p: 1200 m (3937.01 ft) x 1080p: 800 m (2624.67 ft) 4K: 700 m (2296.59 ft)			
	CAT 6 UTP (balun requir	720p: 450 m (1476.38 ft) 1080p: 300 m (984.25 ft) 4K: 300 m (984.25 ft)			
Day/Night		Auto (ICR) / Manual			
OSD Menu		Multi-language			
BLC Mode		BLC, HLC, True WDR			
WDR		120 dB			
Gain Control		AGC			
Noise Reduction		2D, 3D			
White Balance		Auto, Manual			
Smart IR		Auto, Manual			
Certifications					
CE		EN55032 EN55024 EN50130-4			
Safety		UL60950-1 CAN/CSA C22.2 No.60950-1			
Electromagnetic Compatibility (EMC)		FCC CFR 47 Part 15 subpart B, ANSI C63.4-2014			
Interface					
Audio		Input: One (1) Channel			
Electrical					
Power Supply		12 VDC ± 30%			
Power Consumption		Maximum 7 W (12 VDC, IR on)			
Environmental					
Operating Conditions		-30° C to +60° C (-22° F to +140° F) Less than 90% RH *Initiate start up above -30° C (-22° F)			
Storage Conditions		-30° C to +60° C (-22° F to +140° F) Less than 90% RH			
Ingress Protection		IP67			
Vandal Resistance		IK10			
Construction					
Casing		Aluminium			
Dimensions		ø122.0 mm x 88.90 mm (ø4.80 in. x 3.50 in.)			
Net Weight		0.41 kg (0.90 lb)			

0.59 kg (1.30 lb)

One (1) BNC CVBS Channel, switchable

AHD

CVBS

Video Output

5 MP at 20 fps

4 MP at 30 fps

960H

One (1) BNC HDCVI 4K Ultra High-definition Channel or,

Gross Weight

^{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

classifications.

2. 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.

Pro Series | A82AM52

Ordering Information					
Туре	Part Number	Description			
4K HDCVI Camera	A82AM52	4K Starlight HDCVI IR 2.8 mm Fixed Lens Dome Camera, True WDR			
Accessories, optional	PFA137	Junction Box			
	PFA152-E	Pole Mount (For use with PFB203W wall mount)			
	PFA200W	Sun/Rain Shield (For use with PFB203W wall mount)			
	PFB200C	In-ceiling Mount			
	PFB203W	Wall Mount (For use alone or with PFA152-E pole mount)			
	PFM320	12 VDC, 2 A Power Adapter			
	PFM321	12 VDC, 1 A Power Adapter			
Accessories					





PFA137 Junction Box



PFA152-E Pole Mount



PFA200W Sun/Rain Shield



PFB200C In-ceiling Mount



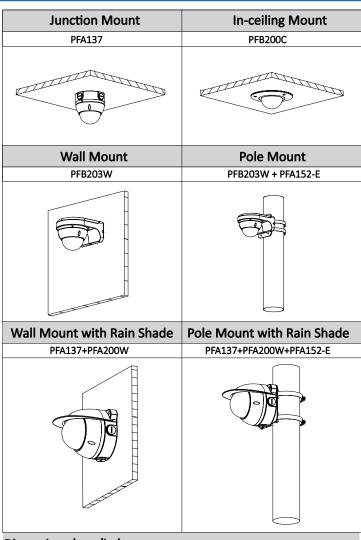
PFB203W Wall Mount



PFM320 12 VDC, 2 A Power Adapter



PFM321 12 VDC,1 A Power Adapter



Dimensions (mm/in.)

