

5MP HDCVI Fixed Eyeball Camera

Starlight IR Camera



- 1/2.8-in. 5 MP Progressive-scan STARVIS™ CMOS Sensor
- 5 MP (2592 x 1944) at 20 fps Maximum Resolution
- 2.8 mm Fixed Lens
- Starlight Technology for Low-light Applications
- True Wide Dynamic Range (120 dB) and 2D/3D Noise Reduction
- Built-in Microphone
- HD or SD Output, Switchable
- Maximum IR Length 50 m (164 ft), Smart IR
- IP67 Ingress Protection
- Five-year Warranty*















System Overview

Experience the superior clarity of Dahua's 5 MP HDCVI cameras for vast coverage and superior image details. The 5 MP HDCVI series leverages existing coax infrastructures to deliver forensic-level images seamlessly and over long distances. The camera uses a STARVIS™ sensor and 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 details in low-light applications. 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 is subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating making 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.

Camera				
Image Sensor		1/2.8-in. STARVIS™ CMOS Sensor		
Effective Pixels		2592 (H) x 1944 (V), 5 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 50.0 m (164.04 ft)		
IR On/Off Control		Auto, Manual		
IR LEDs		Two (2)		
Lens				
Lens Type		Fixed Lens, Fixed Iris		
Mount Type		Board-in		
Focal Length	2.	2.8 mm		
Maximum Aperture	F1	F1.6		
Angle of View	Н	Horizontal: 98°		
Close Focus Distance	80	800 mm (31.50 in.)		
Installation Angle				
Range		Pan: 0° to 360° Tilt: 0° to 78° Rotation: 0° to 360°		
DORI Distances ¹				
Detect (8 ppf)	Obser (19 pp		Recognize (38 ppf)	Identify (76 ppf)
56 m (184 ft)	22 m (72 ft)		11 m (36 ft)	6 m (20 ft)
Video				
	5 MP (2592 x 1944)			

Video Transmission ²	RG-59/U Co	oax	720p: 800 m (2624.67 ft) 1080p: 500 m (1640.42 ft) 4 MP: 500 m (1640.42 ft)	
	RG-6/U Coax		720p: 1200 m (3937.01 ft) 1080p: 800 m (2624.67 ft) 4 MP: 700 m (2296.59 ft)	
	CAT 6 UTP (balun required)		720p: 450 m (1476.38 ft) 1080p: 300 m (984.25 ft) 4 MP: 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		
			FCC CFR 47 Part 15 subpart B, ANSI C63.4-2014	
Interface				
Audio ³		Input: One (1) Channel, RCA Jack plus One (1) Built-in Microphone		
Electrical				
Dawar Cumply		12.1/5	201/201/	

Power Supply	12 VDC ± 30%
Power Consumption	Maximum 7 W (12 VDC, IR on)

Environmental

Gross Weight

Operating Conditions	-40° C to +60° C (-40° F to +140° F) Less than 90% RH *Initiate start up above -40° C (-40° F)
Storage Conditions	-40° C to +60° C (-40° F to +140° F) Less than 90% RH
Ingress Protection	IP67

Construction	
Casing	Aluminium
Dimensions	ø106.0 mm x 99.20 mm (ø4.17 in. x 3.90 in.)
Net Weight	0.48 kg (1.56 lb)

0.63 kg (1.39 lb)

5 MP at 20 fps, 4 MP at 30 fps, 1080p at 30 fps

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

One (1) BNC CVBS Channel, switchable

Frame Rate

Video Output

^{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.

^{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.

3. The default audio input is via the built-in microphone; users must access the Advanced menu to switch the

audio input to the cable option. The camera accepts audio from only one input source.

Pro Series | A52AJ62

Ordering Information				
Туре	Part Number	Description		
5 MP HDCVI Camera	A52AJ62	5 MP Starlight HDCVI IR 2.8 mm Fixed Lens Eyeball Camera, True WDR		
Accessories, optional	PFA130-E	Waterproof Junction Box		
	PFA152-E	Pole Mount (Use with PFB204W wall mount)		
	PFB204W	Wall Mount (Use alone or with PFA152-E pole mount)		
	DH-PFM320D-015	12 VDC, 2 A Power Adapter		
	DH-PFM321D-US	12 VDC, 1 A Power Adapter		
	DH-PFM800-4K	4K Passive HDCVI Balun		
Audio Accessories, optional	HAP100	Pinhole Pickup		
	HAP200	High-fidelity Pickup		

Accessories

Optional:



PFA130-E Waterproof Junction Box



DH-PFM320D-015 12 VDC, 2 A Power Adapter



HAP100 Pinhole Pickup



PFA152-E Pole Mount

PFB204W

Waterproof

Wall Mount

DH-PFM800-4K

4K Passive HDCVI

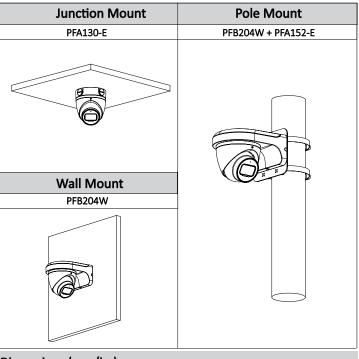
Balun



DH-PFM321D-US 12 VDC, 1 A Power Adapter



HAP200 High-fidelity Pickup



Dimensions (mm/in.)

