

4K HDCVI Fixed Eyeball Camera





- 1/1.8-in. 8MP 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
- Built-in Microphone
- Maximum IR Length 50 m (164 ft), Smart IR
- IP67 Ingress Protection
- 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 security 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 capturesv 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 security 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 security without the hassles of configuring a network.

Broadcast-quality Audio

Audio information is used as supplementary evidence in video security 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 allows for ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 4KV lightning rating provides effective protection for both the camera and its structure against lightning, and its IP67 ingress protection make it the choice for installation in even the most unforgiving environments.

	1/1.8-in. CMOS Sensor				Video Transmiss
	3840 (H) x 2	2160 (V), 8MP			
	Progressive	!			
1/3 s to 1/		.00,000 s			Day/Night
	Color: 0.005 Lux at F1.6, 30 IRE 0 Lux with IR on				OSD Menu
	More than 65 dB				BLC Mode
	Up to 50.0 m (164.04 ft)				WDR
	Auto, Manu	Auto, Manual			Gain Contr
IR LEDs		Two (2)			Noise Red
Lens					
Lens Type		Fixed Lens, Fixed Iris			Smart IR
Board-in					Certifica
	2.8 mm	2.8 mm			CE
	F1.6	F1.6			
	Horizontal:	37°			Safety
Auto, Manu		ıal			Electroma (EMC)
1800 mm (7		70.87 in.)			Interfac
n					Audio
Tilt: 0° to 7		O°			Electrica
	Notation: 0	10 300			Power Sup
Ob	serve	Recognize	Identify		Power Cor
		(38 ppf)	(76 ppf)		Environi
		17 m (56 ft)	8 m (27 ft)		Operating
8 MP (3840 x 2160)				Storage Co
HDCVI		8MP at 15 fps, 6MP at 20 fps, or			Ingress Pro
		4MP at 30 fps			Constru
TVI		5MP at 20 fps 4MP at 30 fps			Casing
AHD		5MP at 20 fps			Dimension
	(1: 6) 8 MP (.	d 1/3 s to 1/1 Color: 0.00 0 Lux with More than Up to 50.0 Auto, Manu Two (2) Fixed Lens, Board-in 2.8 mm F1.6 Horizontal: Auto, Manu 1800 mm (** n Pan: 0° to 3 Tilt: 0° to 7 Rotation: 0 Observe (19 ppf) 34 m (112 ft) 8 MP (3840 x 2160) HDCVI	Color: 0.005 Lux at F1.6, 30 IRE 0 Lux with IR on More than 65 dB Up to 50.0 m (164.04 ft) Auto, Manual Two (2) Fixed Lens, Fixed Iris Board-in 2.8 mm F1.6 Horizontal: 87° Auto, Manual 1800 mm (70.87 in.) Pan: 0° to 360° Tilt: 0° to 70° Rotation: 0° to 360° Observe (19 ppf) (38 ppf) 34 m (112 ft) (56 ft) 8 MP (3840 x 2160) HDCVI 8MP at 15 fps, of 4MP at 30 fps TVI 5MP at 20 fps, or 4MP at 30 fps 5MP at 20 fps	Color: 0.005 Lux at F1.6, 30 IRE	1/3 s to 1/100,000 s

	RG-59/U Coax		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) 1080p: 800 m (2624.67 ft) 4K: 700 m (2296.59 ft)		
	CAT 6 UTP (balun required)		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 Mode		BLC, HLC, True WDR		
WDR			120 dB		
Gain Control			AGC		
Noise Reduction	Noise Reduction		2D, 3D		
White Balance	White Balance		Auto, Manual		
Smart IR	Smart IR		Auto, Manual		
Certifications					
CE EN5		EN55	N55032 N55024 N50130-4		
Satety			UL60950-1 CAN/CSA C22.2 No.60950-1		
			FCC CFR 47 Part 15 subpart B, ANSI C63.4-2014		
Interface					
Audio		Input: One (1) Channel, RCA Jack, and Built-in Microphone			
Electrical					
Power Supply	Power Supply		12 VDC ± 30%		
Power Consumption	Power Consumption		Maximum 8 W (12 VDC, IR on)		
Environmental	Environmental				
Operating Conditions	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	Ingress Protection		967		
Construction					
Casing	Casing		Aluminium		
Dimensions		ø106	ø106.0 mm x 99.20 mm (ø4.17 in. x 3.90 in.)		
Net Weight 0.		0.50	0.50 kg (1.10 lb)		

0.62 kg (1.37 lb)

One (1) BNC CVBS Channel, switchable

4MP at 30 fps

960H

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

CVBS

Video Output

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.

Ordering Information					
Туре	Part Number	Description			
4K HDCVI Camera	A82AG52	8MP Starlight HDCVI IR 2.8 mm Fixed Lens Eyeball Camera, True WDR			
Accessories, optional	PFA106	Mount Adapter (For use with PFB305W wall mount)			
	PFA130-E	Junction Box (For use alone or with PFA152-E pole mount)			
	PFA151	Corner Mount (For use with PFA106 and PFB305W)			
	PFA152-E	Pole Mount (For use with PFA130-E junction box)			
	PFB204W	Wall Mount			
	PFB220C	Ceiling Mont (For use with PFA106)			
	PFB305W	Wall Mount (For use with PFA106)			
	DH-PFM320D-US	12 VDC, 2 A Power Adapter			
	DH-PFM321D-US	12 VDC, 1 A Power Adapter			
Audio Accessories,	HAP100	Pinhole Pickup			
optional					

Junction Mount	Pole Mount
PFA130-E	PFB204W + PFA152-E
Wall Mount	
PFB204W	
Dimensions (mm/in.)	

Optional:

Accessories



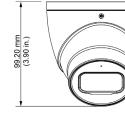


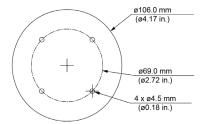


PFA152-E Pole Mount



PFB204W Wall Mount







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



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



HAP100 Pinhole Pickup

