

# 4K HDCVI Fixed Eyeball Camera

8 MP Starlight IR Eyeball 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
- 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 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 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 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.

# Pro Series | A82AG52

Technical Specification					
Camera					
Image Sensor		1/2-in. CMOS Sensor			
Effective Pixels		3840 (H) x 2160 (V), 8 MP			
Scanning System		Progressive			
Electronic Shutter Spee	ed	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	int 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 / Rotation					
Pan/Tilt/Rotation		Pan: 0° to 3 Tilt: 0° to 7 Rotation: 0	0°		
DORI Distances <sup>1</sup>					
Detect (8 ppf)		9 ppf)	Recognize (38 ppf)	<b>Identify</b> (76 ppf)	

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84 m

(276 ft)

Maximum Resolution	8 MP (3840 x 2160)		
Frame Rate	HDCVI	8 MP at 15 fps, 6 MP at 20 fps, or 4 MP at 30 fps	
	TVI	5 MP at 20 fps 4 MP at 30 fps	
	AHD	5 MP at 20 fps 4 MP at 30 fps	
	CVBS	960H	
Video Output	One (1) BNC HDCVI 4K Ultra High-definition Channel or, One (1) BNC CVBS Channel, switchable		

34 m

(112 ft)

17 m

(56 ft)

8 m

(27 ft)

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.

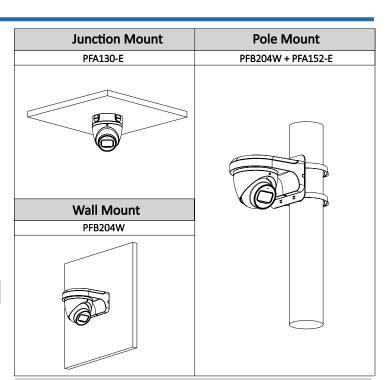
classifications. 2. Transmission distance results verified by real-scene testing in Dahua's test laboratory. Actual transmission distances may vary due to external influences, cable quality, and wiring structures.

	RG-59/U Co	bax	720p: 800 m (2624.67 ft) 1080p: 500 m (1640.42 ft)		
Video Transmission²			4K: 500 m (1640.42 ft) 720p: 1200 m (3937.01 ft)		
	RG-6/U Coax		1200 m (3537.01 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, HLC, True WDR		
WDR			120 dB		
Gain Control			AGC		
Noise Reduction			2D, 3D		
White Balance			Auto, Manual		
Smart IR			Auto, Manual		
Certifications					
CE EN:		EN55	:N55032 :N55024 :N50130-4		
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, RCA Jack, and Built-in Microphone			
Electrical					
Power Supply		12 VDC ± 30%			
Power Consumption		Maximum 8 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 above30° C (22° F)			
Storage Conditions		30° C to +60° C (-22° F to +140° F) Less than 90% RH			
Ingress Protection		IP67			
Construction					
Casing		Aluminium			
Dimensions		ø106.	ø106.0 mm x 99.20 mm (ø4.17 in. x 3.90 in.)		
Net Weight		0.50 kg (1.10 lb)			
Gross Weight		0.62	0.62 kg (1.37 lb)		

# Pro Series | A82AG52

## **Ordering Information**

Туре	Part Number	Description
4K HDCVI Camera	A82AG52	4K Starlight HDCVI IR 2.8 mm Fixed Lens Eyeball Camera, True WDR
Accessories, optional	PFA130-E	Junction Box (For use alone or with PFA152-E pole mount)
	PFA152-E	Pole Mount (For use with PFA130-E junction box)
	PFB204W	Wall Mount
	PFM320	12 VDC 2 A Power Adapter
	PFM321	12 VDC, 1 A Power Adapter
Audio Accessories, optional	HAP100	Pinhole Pickup
	HAP200	High-fidelity Pickup



### Accessories Optional:







PFA130-E Junction Box

PFA152-E Pole Mount

PFB204W Wall Mount



PFM321 12 VDC, 1 A Power Adapter 12 VDC, 2 A Power Adapter



PFM320

HAP100 Pinhole Pickup



HAP200 High-fidelity Pickup



