

5MP Night Color 2.0 HDCVI Eyeball Camera

Fixed-lens True Wide Dynamic Range with 16:9 Aspect Ratio



System Overview

Experience the superior clarity of Dahua's 5 MP HDCVI camera 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 offers a 2.8 mm fixed lens, a multi-language On-screen Display, and HD/SD switchable output. The camera is ideal for hosting diverse applications — Night Color and True Wide Dynamic Range allow the camera to operate in any lighting condition and the IP67 rating makes the camera suitable for the harshest environments.

Functions

Night Color Technology

Dahua cameras with Night Color Technology incorporate a high-performance sensor and a large aperture lens to produce crisp, clear color images in low light environments. This light-sensitive technology allows the camera to capture more available light and reproduce color images with superior detail and contrast. The Night Color camera incorporates white-light LEDs to offer full-color images in total darkness, as well as an effective visual deterrent. This technology provides smart illumination where the camera automatically activates the white-light illuminators when ambient light levels fall and adjusts exposure time and LED intensity to prevent overexposing the image.

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.

Super Adapt

Super Adapt technology monitors external lighting conditions and automatically adjusts the camera settings to provide optimal video images, whether indoors or outdoors. Plus, with this technology installers no longer have to take time to set the optical parameters manually, the camera automatically adjusts to the optimal settings, saving time and money.

- 1/2.7-in. Progressive-scan 5 MP CMOS Sensor
- 5 MP (2880 x 1620) at 25 fps Maximum Resolution
- 16:9 Aspect Ratio for no Image Stretching¹
- 2.8 mm Fixed Lens
- Night Color Technology with White-light LEDs for Color Images in Total Darkness
- True Wide Dynamic Range (120 dB) and 3D Noise Reduction
- ArcticPro Series Camera Operational down to –40° C (–40° F)
- Supports Multiple Video Formats: HDCVI, CVBS, AHD and TVI
- Built-in Microphone
- IP67 Ingress Protection
- Five-year Warranty*



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 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.

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 $\pm 30\%$ 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.

Pro Series | A52CJ62

67.40 m

(221.13 ft)

Technical Specification	ı			
Camera				
Image Sensor	1/2.7-in. C	1/2.7-in. CMOS Sensor		
Effective Pixels	2880 (H) x	2880 (H) x 1620 (V), 5 MP		
Scanning System	Progressive	Progressive		
Electronic Shutter Speed	1/4 s to 1/	1/4 s to 1/100,000 s		
Minimum Illumination	Color: 0.00	Color: 0.001 lux at F1.0		
S/N Ratio	More than	More than 65 dB		
Illuminator Type	White-ligh	White-light		
Illuminator Distance	40.0 m (13	40.0 m (131.23 ft)		
Illuminator Control	Auto, Man	Auto, Manual		
Illuminator LED	Two (2)			
Lens				
Lens Type	Fixed Lens	Fixed Lens		
Mount Type	M12	M12		
Focal Length	2.8 mm	2.8 mm		
Maximum Aperture	F1.0	F1.0		
Angle of View	Vertical: 5	Horizontal: 112° Vertical: 57° Diagonal: 132°		
Iris Type	Fixed	Fixed		
Close Focus Distance	1600.0 mn	1600.0 mm (63.0 in.)		
Installation Angle				
Range	Tilt: 0° to 7	Pan: 0° to 360° Tilt: 0° to 78° Rotation: 0° to 360°		
DORI Distances ²				
Detect (8 ppf)	Observe (19 ppf)	Recognize (38 ppf)	Identify (76 ppf)	

Pan: 0° to 360° Tilt: 0° to 78° Rotation: 0° to 360°		Power Consumption	
			Environmental
Observe (19 ppf)	Recognize (38 ppf)	Identify (76 ppf)	Operating Conditions
27.0 m	13.50 m	6.70 m	Storage Conditions
(88.58 ft)	(88.58 ft) (44.29 ft) (21.98 ft)		Ingress Protection
			Certifications
			CE
		Safety	
			Electromagnetic Compatibility (EMC)

Video

5 MP (2880 x 1620), 4 MP (2560 x 1440), Resolution 1080p (1920 x 1080), 960H (960 x 480) Frame Rate 5 MP at 25 fps One (1) BNC, Transmits HDCVI High-definition signal or CVBS, Video Output AHD or TVI Channel, switchable 720p: 800 m (2624.67 ft) RG-59/U Coax 1080p: 500 m (1640.42 ft) 4 MP: 500 m (1640.42 ft) 720p: 1200 m (3937.01 ft) RG-6/U Coax 1080p: 800 m (2624.67 ft) Video Transmission³ 4 MP: 700 m (2296.59 ft) 720p: 450 m (1476.38 ft) CAT 6 UTP 1080p: 300 m (984.25 ft) (f required) 4 MP: 300 m (984.25 ft) Day/Night Color Multi-language OSD Menu BLC Mode BLC, HLC, HLC-Pro, True WDR WDR 120 dB 3D NR **Noise Reduction** White Balance Auto, Manual Auto, Manual Gain Control Mirror On, Off On, Off (8 areas, rectangular) Privacy Masking Interface Audio One (1) Built-in Microphone Electrical 12 VDC ± 30% Power Supply Maximum 6.4 W (12 VDC with Illuminator on) -40° C to +60° C (-40° F to +140° F) Less than 95% RH -40° C to +60° C (-40° F to +140° F) Less than 95% RH IP67 EN55032, EN55024, EN50130-4, EN60950-1 UL60950-1 CAN/CSA C22.2 No.60950-1 CFR 47 FCC Part 15 subpart B, Electromagnetic Compatibility (EMC) ANSI C63.4-2014 Construction Metal Casing ø106.0 mm x 93.60 mm Dimensions (ø4.17 in. x 3.69 in.)

0.46 kg (1.01 lb)

0.61 kg (1.34 lb)

 To view the 16:9 video output on a Dahua HDCVI DVR you must update the DVR to the latest firmware. Obtain the latest firmware on the Dahua Wiki at <u>https://dahuawiki.com/Recorders</u>.

 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.

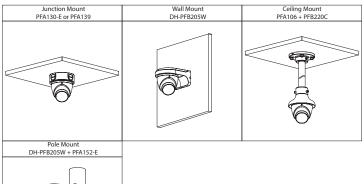
3. Transmission distance results verified by real-scene testing in Dahua's test laboratory. Actual transmission distances may vary due to external influences, cable quality, and wiring structures.

Net Weight

Gross Weight

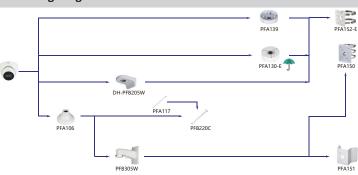
Pro Series | A52CJ62

Ordering Information				
Туре	Part Number	Description		
5 MP HDCVI Camera	A52CJ62	5 MP Night Color 2.0 HDCVI 2.8 mm Fixed Lens Eyeball Camera, 16:9 Aspect Ratio		
Accessories, optional	PFA106	Mount Adapter		
	PFA117	Extension Pole for PFB220C		
	PFA130-E	Waterproof Junction Box		
	PFA139	Junction Box		
	PFA150	Pole Mount (use with PFA106 and PFB305W)		
	PFA151	Corner Mount (use with PFA106 and PFB305W)		
	PFA152-E	Pole Mount (use with PFA130-E, PFA139, or DH-PFB205W)		
	DH-PFA200G	Gang Box Adapter		
	DH-PFB205W	Wall Mount (use alone or with PFA152-E pole mount)		
	PFB220C	Pole Mount (use with PFA106 mount adapter)		
	PFB305W	Wall Mount (use PFA106 mount adapter)		
	DH-PFM321D-US	12 VDC, 1 A Power Adapter		
	DH-PFM800-4K	4K Passive HDCVI Balun		





Mounting Diagram



Accessories

Optional:









PFA139

Junction Box

DH-PFA200G

Gang Box Adapter

PFB305W

Wall Mount



Pole Mount

DH-PFB205W

Wall Mount



PFA151

Corner Mount



PFA152-E Pole Mount



PFB220C Ceiling Mount Extension Pole

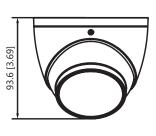




PFA117

DH-PFM321D-US DH-PFM800-4K 12 VDC, 1 A Power Passive HDCVI Balun





Dimensions (mm/in.)

