

5MP Enhanced Night Color HDCVI Eyeball Camera

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



System Overview

Experience the superior clarity of Dahua's 5MP HDCVI camera for vast coverage and superior image details. The 5MP 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 — Enhanced 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

Enhanced Night Color Technology

Dahua cameras with Enhanced 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 Enhanced 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 5MP CMOS Sensor
- 5MP (2880 x 1620) at 25 fps Maximum Resolution
- 16:9 Aspect Ratio for no Image Stretching¹
- 2.8 mm Fixed Lens
- Enhanced 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 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 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

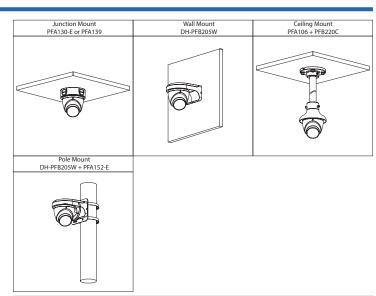
The camera is subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating making it suitable for demanding outdoor applications. The camera allows for ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications, and its 4KV lightning rating provides effective protection for both the camera and its structure against lightning.

Technical Specificati	on			Video		
Camera				Resolution	SMP (2880 x 1620), 4MP (2560 x 1440),	
Image Sensor	1/2.7-in. CN	MOS Sensor		Frame Rate	1080p (1920 x 1080), 960H (960 x 480) 5 MP at 25 fps	
Effective Pixels	2880 (H) x 1	L620 (V), 5MP			One (1) BNC, Transmits HDCVI High-definition signal or CVBS,	
Scanning System	Progressive			Video Output	AHD or TVI Char	nnel, switchable
Electronic Shutter Speed	1/4 s to 1/1	00,000 s			RG-59/U Coax	720p: 800 m (2624.67 ft) 1080p: 500 m (1640.42 ft) 4MP: 500 m (1640.42 ft)
Minimum Illumination	Color: 0.001	l lux at F1.0			RG-6/U Coax	720p: 1200 m (3937.01 ft) 1080p: 800 m (2624.67 ft)
S/N Ratio	More than 6	65 dB		Video Transmission ³	KG-0/U COAX	4MP: 700 m (2296.59 ft)
Illuminator Type	White-light				CAT 6 UTP (f required)	720p: 450 m (1476.38 ft) 1080p: 300 m (984.25 ft)
Illuminator Distance	40.0 m (131	1.23 ft)			(Frequirea)	4MP: 300 m (984.25 ft)
Illuminator Control	Auto, Manu	ial		Day/Night		Color
Illuminator LED	Two (2)			OSD Menu		Multi-language
Lens			BLC Mode		BLC, HLC, HLC-Pro, True WDR	
Lens Type	Fixed Lens			WDR		120 dB
Mount Type	M12			Noise Reduction		3D NR
Focal Length	2.8 mm			White Balance		Auto, Manual
Maximum Aperture	F1.0			Gain Control		Auto, Manual
	Horizontal:			Mirror		On, Off
Angle of View	Vertical: 57° Diagonal: 13			Privacy Masking		On, Off (8 areas, rectangular)
Iris Type	Fixed			Interface		
Close Focus Distance	1600.0 mm	(63.0 in.)		Audio	Audio One (1)	
Installation Angle				Electrical		
Installation Angle Pan: 0° to 360°				Power Supply		12 VDC ± 30%
Range Tilt: 0° to 78° Rotation: 0° to 360°			Power Consumption		Maximum 6.4 W (12 VDC with Illuminator on)	
DORI Distances ²				Environmental		
Detect (8 ppf)	Observe (19 ppf)	Recognize (38 ppf)	Identify (76 ppf)	Operating Conditions		–40° C to +60° C (–40° F to +140° F) Less than 95% RH
67.40 m	27.0 m	13.50 m	6.70 m	Storage Conditions		–40° C to +60° C (–40° F to +140° F) Less than 95% RH
(221.13 ft)	(88.58 ft)	(44.29 ft)	(21.98 ft)	Ingress Protection		IP67
				Certifications		
				CE		EN55032, EN55024, EN50130-4, EN60950-1
				Safety		UL60950-1 CAN/CSA C22.2 No.60950-1
				Electromagnetic Comp	atibility (EMC)	CFR 47 FCC Part 15 subpart B, ANSI C63.4-2014
				Construction		
			Casing		Metal	
				Dimensions		ø106.0 mm x 93.60 mm (ø4.17 in. x 3.69 in.)
				Net Weight		0.46 kg (1.01 lb)

Gross Weight

0.61 kg (1.34 lb)

Ordering Information						
Туре	Part Number	Description				
5MP HDCVI Camera	A52CJ62	5MP Enhanced Night Color HDCVI 2.8 mm Fixed Lens Eyeball Camera, 16:9 Aspect Ratio				
	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)				
Accessories, optional	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 PFA139 PFA130-E PFB305W

PFA150 **Accessories**

Optional:



PFA106 Mount Adapter



PFA130-E Waterproof Junction Box

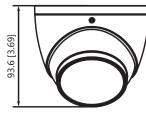


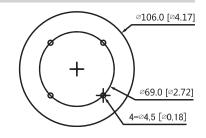
PFA139 Junction Box



PFA150 Pole Mount

Dimensions (mm/in.)







Corner Mount

PFB220C





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



Pole Mount



Extension Pole for PFB220C



DH-PFM800-4K Passive HDCVI Balun



DH-PFA200G Gang Box Adapter



Wall Mount



PFB305W Wall Mount

