

5MP HDCVI Vari-focal Bullet Camera

Starlight IR Camera with 16:9 Aspect Ratio





- 1/2.7-in. 5MP Progressive-scan CMOS Sensor
- 5MP (2880 x 1620) at 25 fps Maximum Resolution
- 2.7 mm to 13.5 mm Motorized Vari-focal Lens
- 16:9 Aspect Ratio for no Image Stretching
- Starlight Technology for Low-light Applications
- True Wide Dynamic Range (120 dB) and 3D Noise Reduction
- Built-in Microphone
- HDCVI, AHD, TVI, or CVBS Output, Switchable
- Maximum IR Length 80 m (262.47 ft), Smart IR
- IP67 Ingress Protection
- Five-year Warranty*













System Overview

Experience the superior clarity of Dahua's 5MP HDCVI cameras 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 HDCVI camera offers multiple output formats that are easily switchable and a 16:9 aspect ratio. With a 16:9 format, images maintain a true, undistorted view without stretching, a feature not found on many 5MP HD over coax cameras. The camera is suitable for most applications, offering IR illumination for difficult lighting conditions, input voltage tolerance for inconsistent power supplies, and IP67 certification for operation in harsh outdoor environmental conditions.

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 HDCVI DVR to send control signals or to trigger alarms.

Starlight Technology

For challenging low-light applications, Dahua's Starlight Technology captures 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 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.

Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of the camera's infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high-performance in extreme low-light environments.

Multiple-format Support

The camera can switch between these four formats via the 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 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.

Video Output

Technical Specification						RG-59/U Coax	720p: 800 m (2624.67 ft) 1080p: 500 m (1640.42 ft)
Camera							5MP: 500 m (1640.42 ft) 720p: 1200 m (3937.01 ft)
Image Sensor		1/2.7-in. CMOS Sensor			Video Transmission ³	RG-6/U Coax	1080p: 800 m (2624.67 ft) 5MP: 700 m (2296.59 ft)
Effective Pixels		2880 (H) x 1620 (V), 5MP				CAT 6 UTP	720p: 450 m (1476.38 ft) 1080p: 300 m (984.25 ft)
Aspect Ratio ¹		16:9				(balun required)	5MP: 300 m (984.25 ft)
Scanning Sy	ystem	Progressive			Day/Night		Auto (ICR)
Electronic S	Shutter Speed	1/4 s to 1/100,000 s			OSD Menu		Multi-language
Minimum II	llumination	Color: 0.001 lux at F1.6, 30 IRE 0 lux with IR on			BLC Mode		BLC, HLC, HLC-Pro, True WDR
S/N Ratio		More than 65 dB			WDR		120 dB
IR Distance		Up to 80.0 m (262.47 ft)			Gain Control		Auto, Manual
IR On/Off C	Control	Auto, Manual			Noise Reduction		3D NR
IR LEDs		Four (4)			White Balance		Auto, Manual
Lens					Advanced Features		Smart IR Mirror
Lens Type		Motorized Vari-focal			Privacy Masking		Off, On (8 Areas, rectangular)
Mount Type	e	ø14			Certifications		
Focal Lengt		2.7 mm to 13.5 mm			CE		EN55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN55024:2010+A1:2015, EN 55035-2017, ENF0120, 4-2011, A1-2014
Maximum Aperture Angle of View		F1.6 Horizontal: 31.4° to 113.0° Vertical: 17.6° to 58.0°			Safety		EN 55035:2017, EN50130-4:2011+A1:2014, UL60950-1 EN 62368-1:2014+A11:2017 CAN/CSA C22.2 No.60950-1
Iris Type		Diagonal: 36° to 138.0° Fixed			Electromagnetic Cor	mpatibility (EMC)	CFR 47 FCC Part 15 subpart B ANSI C63.4-2014
Close Focus	s Distance	800 mm (31.50 in.)			Interface		ANJI 603.4 2014
Installation Angle					Audio		One (1) Built-in Microphone
Range		Pan: 0° to 360° Tilt: 0° to 90°			Electrical		
	_	Rotation: 0° to 360°			Power Supply		24 VAC ±25% or 12 VDC ±10%
DORI Distances ²				Power Consumption			Maximum 12.5 W (12 VDC, IR on)
Detect (8 ppf)		Observe (19 ppf)	Recognize (38 ppf)	Identify (76 ppf)	Environmental		
Tele 64.0 m (210.0 ft)		25.60 m (84.0 ft)	12.80 m (42.0 ft)	6.40 m (21.0 ft)	Operating Condition	S	−30° C to +60° C (−22° F to +140° F) Less than 95% RH, non condensing
Wide 210.0 m (689.0 ft)		84.0 m (275.59 ft)	42.0 m (137.80 ft)	21.0 m (68.90)	Storage Conditions		−30° C to +60° C (−22° F to +140° F) Less than 95% RH, non condensing
Video					Ingress Protection		IP67
5MP (2880 x 1620), 4MP (2560 x 1440), 1080p Resolution Output (1920 x 1080), 720p (1280 x 720),					Construction		
nesolution	output	960H (960 x 480), D1 (704 x 480), CIF (352 x 240)			Casing		Metal
Maximum Frame Rate	HDCVI	5MP at 25 fps, 4MP at 30 fps, 1080p at 30 fps			Dimensions		244.10 mm x 90.40 mm x 90.40 mm (9.61 in. x 3.56 in. x 3.56 in.)
	AHD	4MP at 30 fps			Net Weight		0.79 kg (1.70 lb)
	TVI	4MP at 30 fps			Gross Weight		1.07 kg (2.40 lb)
	CVBS	960H at 30 fps					

One (1) BNC Output, HDCVI, AHD, TVI, CVBS switchable

Pro Series | A52BFAZ

Ordering Information Part Number Description Туре 5MP HDCVI 5MP Starlight HDCVI IR Vari-focal Lens A52BFAZ Camera Bullet Camera, 16:9 Aspect Ratio PFA122 Waterproof Junction Box PFA130-E Waterproof Junction Box PFA151 Corner Mount Accessories, optional PFA152-E Pole Mount DH-PFM321D-US 12 VDC, 1 A Power Adapter DH-PFM800-4K 4K Passive HDCVI Balun

Accessories

Optional:



PFA122 Waterproof Junction Box



PFA130-E Waterproof Junction Box



PFA151 Corner Mount



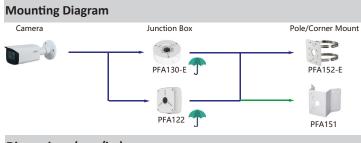
PFA152-E Pole Mount



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



DH-PFM800-4K Passive HDCVI Balun



Dimensions (mm/in.)

