

# 5MP HDCVI Fixed Bullet Camera

Starlight IR Camera with 16:9 Aspect Ratio







#### **System Overview**

Experience the superior clarity of Dahua's 5 MP HDCVI cameras 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 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 Ultra-low Light Technology offers best-in-class light sensitivity, capturing 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 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.

- 1/2.7-in. 5 MP Progressive-scan CMOS Sensor
- 5 MP (2880 x 1620) at 25 fps Maximum Resolution
- 2.8 mm Fixed 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 40 m (131.23 ft), Smart IR
- ArcticPro Series Camera Operational down to -40° C (-40° F)
- IP67 Ingress Protection
- Five-year Warranty\*















#### 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 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.

#### ArcticPro

The Dahua ArcticPro Series of extreme-environment cameras combine temperature-tolerant components with a waterproof enclosure to ensure flawless operation in temperatures as low as  $-40^{\circ}$  C ( $-40^{\circ}$  F) without the need for an internal heater. The lack of a heater reduces the camera's power consumption and saves operating costs. For applications that demand high-resolution video with advanced features in extremely cold environments, the Dahua ArcticPro Series offers a camera to satisfy the most demanding requirements.

#### 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.

Camera								
Image Sensor			1/2.7-in. CN	Video Transmissi				
Effective Pixels			2880 (H) x					
Aspect Ratio <sup>1</sup>			16:9					
Scanning System			Progressive	Day/Night				
Electronic Shutter Speed			1/4 s to 1/1	OSD Menu				
Minimum Illumination			Color: 0.00 0 lux with I	BLC Mode				
S/N Ratio			More than	WDR				
IR Distance			Up to 40.0	Gain Cont				
IR On/Off Control			Auto, Manu	Noise Red				
IR LEDs			Two (2)	White Bala				
Lens						Advanced		
Lens Type			Fixed-focal	Privacy Ma				
Mount Type			M12	Certifica				
Focal Length			2.8 mm	C.F.				
Maximum Aperture			F1.6	CE				
Angle of View			Horizontal: Vertical: 58 Diagonal: 1	Safety				
Iris Type			Fixed	Electroma (EMC)				
Close Focus Distance			900 mm (3.	Interfac				
Installati	on Angle					Audio		
Range		Pan: 0° to 360° Tilt: 0° to 90° Rotation: 0° to 360°			Electrica			
DORI Dis	tances²					Power Sup		
Det	ect		serve	Recognize	Identify	Power Cor		
(8 ppf) 63.60 m (208.70 ft)		25	9 ppf) .40 m .30 ft)	(38 ppf) 12.70 m (41.70 ft)	(76 ppf) 6.40 m (21.0 ft)	Environ Operating		
Video						Storage Co		
Resolution Output			5 MP (2880 x 1620), 4 MP (2560 x 1440), 1080p (1920 x 1080),					
			720p (1280 x 720), 960H (960 x 480), D1 (704 x 480), CIF (352 x 240)					
	HDCVI	5 MP a	5 MP at 25 fps, 4 MP at 30 fps					
Maximum	AHD	4 MP a	Casing					

1.	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 https://dahuawiki.com/Recorders.
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4 MP at 30 fps

960H

Frame Rate

Video Output

TVI

CVBS

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

	RG-59/U Coax		720p: 800 m (2624.67 ft) 1080p: 500 m (1640.42 ft) 5 MP: 500 m (1640.42 ft)			
Video Transmission <sup>3</sup>	RG-6/U Coax		720p: 1200 m (3937.01 ft) 1080p: 800 m (2624.67 ft) 5 MP: 700 m (2296.59 ft)			
	CAT 6 UTP (balun required)		720p: 450 m (1476.38 ft) 1080p: 300 m (984.25 ft) 5 MP: 300 m (984.25 ft)			
Day/Night			Auto (ICR)			
OSD Menu			Multi-language			
BLC Mode			BLC, HLC, HLC-Pro, True WDR			
WDR			120 dB			
Gain Control			Auto, Manual			
Noise Reduction			2D/3D NR			
White Balance			Auto, Manual			
Advanced Features			Smart IR Mirror			
Privacy Masking			Off, On (8 Areas, rectangular)			
Certifications						
CE		EN55032:2015, EN 61000-3-2:2014, EN 61000-3-3:2013, EN55024:2010+A1:2015, EN 55035:2017, EN50130-4:2011+A1:2014,				
Safety		UL60950-1 EN 62368-1:2014+A11:2017 CAN/CSA C22.2 No.60950-1				
Electromagnetic Con (EMC)	npatibility	CFR 47 FCC Part 15 subpart B ANSI C63.4-2014				
Interface						
Audio		One (1) Built-in Microphone				
Electrical						
Power Supply		12 VDC ± 30%				
Power Consumption		Maximum 5.9 W (12 VDC, IR on)				
Environmental						
Operating Conditions		-40° C to +60° C (-40° F to +140° F) Less than 95% RH, non condensing				
Storage Conditions		-40° C to +60° C (-40° F to +140° F) Less than 95% RH, non condensing				
Ingress Protection		IP67				
Construction						
Casing	Casing		Metal and Plastic			
Dimensions			179.90 mm x 70.0 mm x 70.0 mm (7.08 in. x 2.75 in. x 2.75 in.)			
Net Weight			0.42 kg (0.93 lb)			
Gross Weight		0.56	0.56 kg (1.23 lb)			

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.

# Pro Series | A52BB62

#### **Ordering Information** Part Number Description Туре 5 MP HDCVI 5 MP Starlight HDCVI IR 2.8 mm Fixed Lens A52BB62 Camera Bullet Camera, 16:9 Aspect Ratio PFA121 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:



PFA121 Waterproof Junction Box



PFA130-E Waterproof Junction Box



PFA151 Corner Mount



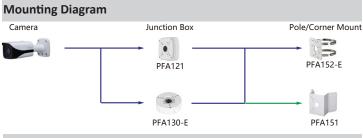
PFA152-E Pole Mount



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



DH-PFM800-4K Passive HDCVI Balun



# Dimensions (mm/in.)

