

# 5MP Enhanced Night Color HDCVI Bullet Camera

Fixed Lens True Wide Dynamic Range with 16:9 Aspect Ratio



- 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 Stretching<sup>1</sup>
- 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\*











#### **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 automatically activates the white-light illuminators when a human enters a defined detection area within the scene to capture full-color details.

## 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.

#### 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 Specification** Camera Image Sensor 1/2.7-in. CMOS Sensor **Effective Pixels** 2880 (H) x 1620 (V), 5MP Scanning System Progressive **Electronic Shutter Speed** 1/4 s to 1/100,000 s Minimum Illumination Color: 0.001 lux at F1.0 S/N Ratio More than 65 dB Illuminator Type White-light Illuminator Distance 20.0 m (65.61 ft) Illuminator Control Auto, Manual Illuminator LED One (1) Lens Lens Type Fixed Lens Mount Type M12 2.8 mm Focal Length Maximum Aperture F1.0 Horizontal: 112° Angle of View Vertical: 57° Diagonal: 132° Iris Type Close Focus Distance 1600.0 mm (63.0 in.) Installation Angle Pan: 0° to 360° Range Tilt: 0° to 90° Rotation: 0° to 360° DORI Distances<sup>2</sup> Detect Observe Recognize Identify (8 ppf) (19 ppf) (38 ppf) (76 ppf) 67.40 m 27.0 m 13.50 m 6.70 m

١	/:	_	_	_

video			
Resolution	5MP (2880 x 1620), 4MP (2560 x 1440), 1080p (1920 x 1080), 960H (960 x 480)		
Frame Rate	5 MP at 25 fps		
Video Output	One (1) BNC, Transmits HDCVI High-definition signal or CVBS, AHD or TVI Channel, switchable		
Video Transmission <sup>3</sup>	RG-59/U Coax	720p: 800 m (2624.67 ft) 1080p: 500 m (1640.42 ft) 4MP: 500 m (1640.42 ft)	
	RG-6/U Coax	720p: 1200 m (3937.01 ft) 1080p: 800 m (2624.67 ft) 4MP: 700 m (2296.59 ft)	
	CAT 6 UTP (balun required)	720p: 450 m (1476.38 ft) 1080p: 300 m (984.25 ft) 4MP: 300 m (984.25 ft)	
Day/Night		Color	
OSD Menu		Multi-language	
BLC Mode		BLC, HLC, HLC-Pro, True WDR	
WDR		120 dB	
Noise Reduction		3D NR	
White Balance		Auto, Manual	
Gain Control		Auto, Manual	
Mirror		On, Off	
Privacy Masking		On, Off (8 areas, rectangular)	
Interface			
Audio		One (1) Built-in Microphone	

# **Power Consumption** Environmental

Electrical

**Power Supply** 

Operating Conditions	-40° C to +60° C (-40° F to +140° F) Less than 95% RH
Storage Conditions	-40° C to +60° C (-40° F to +140° F) Less than 95% RH
Ingress Protection	IP67

12 VDC ± 30%

Maximum 4.4 W

(12 VDC with Illuminator on)

#### Certifications

CE	EN55032, EN55024, EN50130-4, EN60950-1
Safety	UL60950-1 CAN/CSA C22.2 No.60950-1
Electromagnetic Compatibility (EMC)	CFR 47 FCC Part 15 subpart B, ANSI C63.4-2014

#### Construction

Casing	Metal
Dimensions	174.50 x 72.30 mm x mm x 70.60 mm (6.87 in. x 2.85 in. x 2.78 in.)
Net Weight	0.34 kg (0.75 lb)
Gross Weight	0.45 kg (0.99 lb)

<sup>1.</sup> A connected Dahua HDCVI DVR must be at firmware level V4.001.0000001.0.R.200908 or later to display the

(88.58 ft)

(44.29 ft)

(21.98 ft)

<sup>16:9</sup> aspect ratio.

2. 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, Rec

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

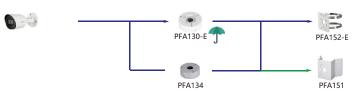
# Pro Series | A52CF62

Ordering Information		
Туре	Part Number	Description
5MP HDCVI Camera	A52CF62	5MP Enhanced Night Color 2.8 mm Fixed Lens Bullet Camera, True WDR, 16:9
	PFA130-E	Waterproof Junction Box
	PFA134	Junction Box
Accessories, optional	PFA151	Corner Mount
	PFA152-E	Pole Mount
	DH-PFM321D-US	12 VDC, 1 A Power Adapter
	PFM800-4K	4K Passive HDCVI Balun

Junction Mount PFA130-E	Pole Mount PFA130-E+PFA152-E

### **Mounting Diagram**

Camera Junction Box Pole/Corner Mount



#### **Accessories**

## Optional:



PFA130-E Waterproof Junction Box



PFA152-E Pole Mount



PFA134 Junction Box

12 VDC, 1 A

Power Adapter



PFA151 Corner Mount



PFM800-4K 4K Passive HDCVI Balun

# Dimensions (mm/in.)

