

# 4 MP HDCVI Bullet Camera

4 MP WDR HDCVI IR Bullet Camera

# HDCVI



- True Wide Dynamic Range (120 dB) and 3DNR
- Maximum 4 MP Resolution in Real-time
- HD and SD Dual-output
- 2.7 mm to 13.5 mm Motorized Lens
- Maximum IR length 60 m (197 ft), Smart IR
- IP67 Ingress Protection
- 24 VAC / 12 VDC Power Supply



#### System Overview

Experience the superior clarity of real-time 4 MP video while leveraging your existing coaxial infrastructure. The camera features 120 dB True WDR for applications under complex dynamic range and presents high quality images with clear details and accurate color rendition. The camera offers a multi-language on-screen display and HD and SD dual-output. The outstanding performance and easy installation make the camera an ideal choice for mid- to large-size businesses and for projects where highly reliable surveillance and construction flexibility are valued.

#### Functions

#### Three Signals over One Coaxial Cable

HDCVI technology simultaneously transmits video, power, 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. HDCVI along with PoC technology delivers power<sup>1</sup> to devices at the edge, simplifying installation.

#### 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.

#### Multi-outputs

The camera supports HDCVI and CVBS signal outputs simultaneously with two BNC connectors. These output signals allow the camera to integrate with various devices, including analog matrix systems and monitors.

#### 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 camera's infrared LEDs to compensate 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 up to 60 m (197 ft).

#### Wide Dynamic Range

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.

#### Advanced 3DNR

3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua's advanced 3DNR technology delivers remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. 3DNR, in addition, effectively decreases the bandwidth and saves storage space.

#### Large Aperture Lens

The camera uses a high-end F1.3 large-aperture lens, allowing more absorbed light into the camera for impressive low-light performance.

#### Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67, making it suitable for indoor or outdoor environments.

With a working temperature range of -30 °C to +60 °C (-22 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting  $\pm$ 25% input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

1. Requires PoC Transceivers for each channel and an external power supply for each transceiver.

#### **Technical Specification**

#### Camera

Camera				
Image Sensor	1/3-in. CMOS			
Effective Pixels	2688(H) x 1520(V), 4.1 MP			
Scanning System	Progressive			
Electronic Shutter Speed	1/3 s to 1/100,000 s			
Minimum Illumination	0.01 Lux at F1.3 0 Lux with IR on			
S/N Ratio	More than 65 dB			
IR Distance	Up to 60 m (197 ft)			
IR On/Off Control	Auto, Manual			
IR LEDs	Four (4)			
Lens	Lens			
Lens Type	Motorized lens / Fixed iris			
Mount Type	Board-in			
Focal Length	2.7 mm to 13.5 mm			
Max Aperture	F1.3			
Angle of View	Horizontal: 26° to 98°			
Focus Control	Auto, Manual			
Close Focus Distance	200 mm (7.87 in.)			
Pan / Tilt / Rotation				
Range	Pan: 0° to 360° Tilt: 0° to 87° Rotation: 0° to 360°			
Video				
Resolution	4 MP (2560 x 1440)			
Frame Rate	4 MP at 25 fps 1080p at 30 fps 720p at 30 fps One (1) BNC HDCVI High-definition Channel and, One (1) BNC CVBS Channel			
Video Output				
	RG-59/U Coax	720p: 800 m (2624.67 ft) 1080p: 500 m (1640.42 ft) 4 MP: 500 m (1640.42 ft)		
Video Transmission <sup>2</sup>	RG-6/U Coax	720p: 1200 m (3937.01 ft) 1080p: 800 m (2624.67 ft) 4 MP: 700 m (2296.59 ft)		
	CAT 6 UTP (balun required)	720p: 450 m (1476.38 ft) 1080p: 300 m (984.25 ft) 4 MP: 300 m (984.25 ft)		
Day/Night	Auto (ICR), Manual			
OSD Menu	Multi-language			
BLC Mode	BLC, HLC, WDR			
WDR	120 dB			
Gain Control	AGC			
Noise Reduction	2D/3D			
White Palance	Auto Manual			

Safety	UL60950-1+CAN/CSA C22.2 No.60950-1		
Electromagnetic Compatibility (EMC)	FCC CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014		
Electrical	trical		
Power Supply	24 VAC ±25% / 12 VDC ±25%		
Power Consumption	Max 15.4 W (12 VDC with IR on)		
Environmental			
Operating Conditions	-30° C to +60° C (-22° F to +140° F), Less than 90% RH * Start up should be done above -30° C (-22° F)		
Storage Conditions	-30° C to +60° C (-22° F to +140° F), Less than 90% RH		
Ingress Protection	Protection IP67		
Construction	Construction		
Casing	Aluminium, Black		
Dimensions	213.0 mm x 90.40 mm x 90.40 mm (8.39 in. x 3.56 in. x 3.56 in.)		
Net Weight	0.63 kg (1.39 lb)		
Gross Weight	0.76 kg (1.68 lb)		

Certifications

2. 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.

Auto, Manual Auto, Manual

White Balance

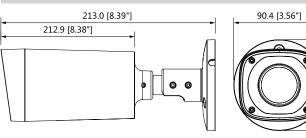
Smart IR

## Pro Series | A42AC2Z-B

#### **Ordering Information**

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Туре	Part Number	Description
	A42AC2Z-B	4 MP WDR HDCVI IR Bullet Camera, Black
	PFA135	Junction box (For use alone or with PFA150 pole mount)
Accessories, optional	PFA150	Pole mount (For use with PFA135 junction box)
	PFM810	PoC Transceiver

### Dimensions (mm/inch)



90.4 [3.56"]

#### Accessories

#### Optional:







PFA135 Junction Box

PFA150 Pole Mount

PFM810 PoC Transceiver

Junction Mount	Pole Mount
PFA135	PFA135 + PFA150



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