

4 MP HDCVI Dome Camera

4 MP WDR HDCVI IR Varifocal Dome Camera



- True Wide Dynamic Range (120 dB) and 3DNR
- Maximum 4 MP Resolution in Real-time
- HD and SD Dual-output
- 2.7 mm to 12 mm Motorized Lens
- Maximum IR length 30 m (98 ft), Smart IR
- IP67 Ingress Protection, IK10 Vandalism 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 three signals (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. Moreover, HDCVI technology supports PoC for construction flexibility.

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 30 m (98 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.

Pro Series | A42AM2Z

Technical Specification

Camera

1/3-in. CMOS				
2688(H) x 1520(V), 4.1 MP				
Progressive				
1/3 s to 1/100,000 s				
0.01 Lux at F1.3 0 Lux with IR on				
More than 65 dB				
Up to 30 m (98 ft)				
Auto, Manual				
Two (2)				
Lens				
Motorized Lens / Fixed Iris				
Board-in				
2.7 mm to 12 mm				
F1.3				
Horizontal: 26° to 98°				
Auto, Manual				
200 mm (7.87 in.)				
Pan / Tilt / Rotation				
Pan: 0° to 355° Tilt: 0° to 75° Rotation: 0° to 355°				

Certifications					
Safety	UL60950-1+CAN/CSA C22.2 No.60950-1				
Electromagnetic Compatibility (EMC)	FCC CFR 47 FCC Part 15 Subpart B ANSI C63.4-2014				
Electrical					
Power Supply	24 VAC ±25%, 12 VDC ±25%				
Power Consumption	Maximum 10.1 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	IP67				
Vandal Resistance	IK10				
Construction					
Casing	Aluminium				
Dimensions	ø122.0 mm x 88.90 mm (ø4.80 in. x 3.50 in.)				
Net Weight	0.48 kg (1.06 lb)				
Gross Weight	0.63 kg (1.39 lb)				

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Video			
Resolution	4 MP (2560 x 1440)		
Frame Rate	4 MP at 25 fps 1080p at 30 fps 720p at 30 fps		
Video Output	One (1) BNC HDCVI High-definition Channel and, One (1) BNC CVBS Channel		
Video Transmission ¹	RG-59/U Coax	720p: 800 m (2624.67 ft) 1080p: 500 m (1640.42 ft) 4 MP: 500 m (1640.42 ft)	
	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 Balance	Auto, Manual		
Smart IR	Auto, Manual		

1. 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 | A42AM2Z

Ordering I	nformation		Dir	mensions (mm/inch)			
Туре	Part Number	Description		122.0 [4.8"]		Ø122.0 [Ø4.8"]	
4 MP Camera	A42AM2Z	4 MP WDR HDCVI IR Dome Camera	88.9 [3.5"]				
	PFA137	Junction box (For use alone)		<u>m</u> i		((-	+ \\
Accessories	PFB203W	Wall mount (For use alone or with PFA152 pole mount)					
Accessories	PFA152 Pole mount (For use with PFB203W wall mount)		3-@4.5	[#0.18"]	∞110.0 [∞4.33"]		
	PFB200C	In-ceiling mount (For use alone)					

Accessories

Optional:





PFB203W Wall mount



PFA152 Pole mount



PFB200C In-ceiling mount

Junction Mount	Inceiling Mount
PFA137	PFB200C
Wall Mount	Pole Mount
PFB203W	PFB203W + PFA152



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