

4 MP PTZ HDCVI Camera

30x PTZ HDCVI Camera



- 1/3-in. 4 MP Progressive-scan CMOS Sensor
- Powerful 30x Optical Zoom
- True WDR (120 dB), 3D DNR
- 4 MP or 3 MP at 30 fps, 1080p at 30/60 fps
- Defog Feature for Improved Images in Low-contrast Interference
- Compass Direction Display for Easier Positioning
- IP67 Ingress Protection and IK10 Vandal Resistance
- Designed for Extreme Temperature Environments
- Five-year Warranty



System Overview

The 4 MP PTZ HDCVI Dome camera features a 1/3-in. CMOS imager with a 30x optical zoom lens, and provides an all in one solution for capturing long-distance video surveillance for outdoor applications. The camera features 120 dB True WDR, suitable for applications with complex dynamic range, ensuring both the bright and dark areas are seen clearly. The camera is also equipped with quick and accurate pan/tilt/zoom control for excellent camera control.

Functions

Three Signals over One Coaxial Cable

HDCVI technology simultaneously transmits three signals (video, audio, and control) 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.

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.

Dual Video Output Signals

The camera offers one (1) BNC video output connection to transmit an HDCVI or a CVBS signal. These output signals allow the camera to integrate with various devices, including analog matrix systems and monitors.

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.

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.

Defog

Utilizing Dahua's advanced algorithm technology, the Defog feature dynamically adjusts the camera's contrast settings to provide improved image quality in scenes affected by fog, smog, mist, smoke or other low-contrast interference.

Environmental

With a built-in heater and a temperature range of-40 °C to +70 °C (-40 °F to +158 °F), the camera is designed for extreme temperature environments. The camera complies with the IK10 Vandal Resistance impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.). Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications. Its 6KV lightning rating provides protection against the camera and its structure from the effects of lightning.



Ultra Series | 50430IC

Technical Specification

Camera	Camera					
Image Sensor		1/3-in. CMOS Sensor				
Effective Pixels		2592(H) x 1520(V), 4 MP				
Scanning System		Progressive				
Electronic Shutter Speed		1/3 s to 1/300,000 s				
Minimum Illumination		Color: 0.05 lux at F1.6 B/W: 0.005 lux at F1.6				
S/N Ratio		More than 55 dB				
Lens						
Focal Length		4.5 mm to 135 mm				
Maximum Aperture		F1.6 to F4.4				
Horizontal Angle of View		60° to 2.2°				
Optical Zoom		30x				
Focus Control		Auto, Manual				
Close Focus Distance		100 mm to 1000 mm (3.94 in. to 39.37 in.)				
DORI Distance ¹						
Detect (8 ppf)	Observe (19	∋ppf)	Recognize (38 ppf)	Identify (76 ppf)		
2700 m (8858 ft)	1080 m (354	I3 ft)	540 m (1772 ft)	270 m (886 ft)		
PTZ						
Pan/Tilt Range		Pan: 0° to 360° endless Tilt: 0° to 90° Auto Flip 180°				
Manual Control Speed		Pan: 0.1° to 350° /s Tilt: 0.1° to 250° /s				
Preset Speed		Pan: 500° /s Tilt: 500° /s				
Presets		300				
PTZ Mode		5 Pattern, 8 Tour, Auto Pan, Auto Scan				
Speed Setup		Human-oriented Focal Length and Speed Adaptation				
Power up Action		Auto restore to previous PTZ and lens status after power failure				
Idle Motion		Activate Preset, Scan, Tour, Pattern if there is no command in the specified period				
Protocol		DH-SD, Pelco-P/D (Auto recognition)				

Video						
Resolution	4 MP (2560 x 1440), 1080p (1920 x 1080), 720p (1280 x 720), 960H (960 x 480)					
Frame Rate	4 MP or 3 MP at 30 fps; 1080p at 30/60 fps					
Video Output	HDCVI: 4 MP AHD or TVI: 2 MP CVBS: 960H					
	RG-59/U Coax	720p: 500 m (1640.42 ft) 1080p: 400 m (1312.34 ft) 4 MP: 300 m (984.25 ft)				
Video Transmission ²	RG-6/U Coax	720p: 800 m (2624.67 ft) 1080p: 600 m (1968.50 ft) 4 MP: 600 m (1968.50 ft)				
	CAT 6 UTP (balun required)	720p: 380 m (1246.72 ft) 1080p: 380 m (1246.72 ft) 4 MP: 200 m (656.17 ft)				
Day/Night	Auto (ICR), Color, B/W					
OSD Menu	Support					
Backlight Compensation	BLC, HLC, True WDR (120 dB)					
White Balance	Auto, ATW, Indoor, Outdoor, Manual					
Gain Control	Auto, Manual					
Noise Reduction	Ultra DNR (2D/3D)					
Digital Zoom	16x					
Flip	180°					
Privacy Masking	Up to 24 areas					
Certifications						
CE	EN 55032 EN 55024 EN 50130-4					
UL	UL60950-1 + CAN/CSA C22.2, No.60950-1					
Electromagnetic Compatibility (EMC)	FCC Part 15 Subpart B ANSI C63.4-2014					
Interface						
Video Output	One (1) Channel HDCVI or CVBS, BNC					
Audio Input	One (1) Channel					
RS485	One (1)					
Alarm	Input: Two (2) Channels Output: One (1) Channel					
Electrical	Electrical					
Power Supply	24 VAC, 1.5 A (± 10%)					
Power Consumption	13 W, 23 W with heater on					
Environmental						
Operating Conditions	-40° C to 60° C (-40° F to +140° F), Less than 90% RH					
Ingress Protection	IP67					
Vandal Resistance	IK10					
Construction						
Casing	Metal					
Dimensions	ø186.0 mm x 253.0 mm (ø7.32 in. x 9.96 in.)					
Net Weight	2.50 kg (5.51 lb)					
Gross Weight	4.50 kg (9.92 lb)					

1. 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.

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.

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Ordering Information

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Туре	Part Number	Description		
4 MP PTZ Camera	50430IC	4 MP 30x PTZ HDCVI Camera, Built-in Heater, True WDR		
Accessories, Included	AC24V/1.5A	Power Supply		
	PFA110	Mount Adapter		
	PFB300S	Wall Mount		
Accessories, Optional	PFA120	Junction Box		
	PFA140	Power Box		
	PFA150	Pole Mount		
	PFA151	Corner Mount		
	PFB300C	Ceiling Mount		
	PFB303S	Parapet Mount		

Accessories

Included:



PFB300S Wall Mount



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PFA140 Power box



PFA150 Pole Mount





PFA110 Mount Adapter

PFB300C

Ceiling Mount

PFA151

Corner Mount

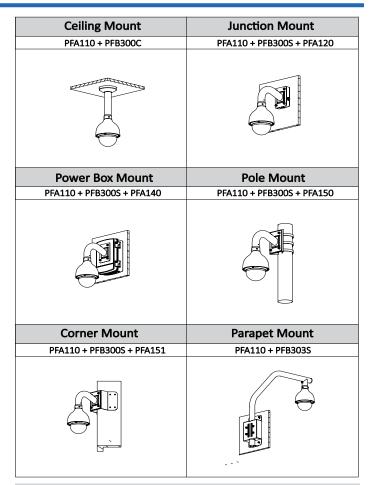
AC24V/1.5A Power Supply



PFA120 Junction Box



PFB303S Parapet Mount



Dimensions (mm/in.)

