

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 55 kg (120 lbs) of force. 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

Protocol

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 (3543 ft)		540 m (1772 ft)	270 m (886 ft)	
PTZ					
Pan/Tilt Range		Pan: 0° to 360° endless Tilit: 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			

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				
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.

command in the specified period DH-SD, Pelco-P/D (Auto recognition)

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.

Ultra Series | 50430IC

Ordering Information

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:

Optional :



PFB300S

Wall Mount





PFA110 Mount Adapter

AC24V/1.5A Power Supply





PFA150 Pole Mount



PFB300C Ceiling Mount



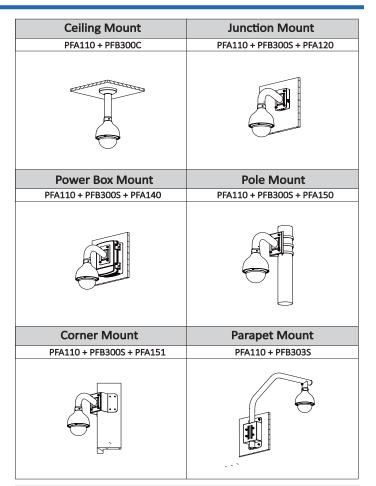
PFA151 Corner Mount



PFA120 Junction Box



PFB303S Parapet Mount



Dimensions (mm/in.)

