

4 MP PTZ HDCVI Camera

30x IR 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
- Maximum IR Distance up to 100 m (328 ft)
- IP66 Ingress Protection
- Designed for Extreme Temperature Environments
- Five-year Warranty



System Overview

The 4 MP IR 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 +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP66 rating makes it suitable for demanding outdoor applications.

Protection

This camera suits even the harsh conditions for outdoor applications. Its 6KV lightning rating provides protection against the camera and its structure from the effects of lightning.



Ultra Series | 6C430IC

Technical Specification

Presets

PTZ Mode

Speed Setup

Idle Motion

Protocol

Power up Action

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 0 lux at F1.6 with IR on			
S/N Ratio		More than 55 dB			
IR Distance		Distance up to 100 m (328.08 ft)			
IR On/Off Control		Auto, Manual			
IR LEDs		Six (6)			
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 (1	9 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 Tilt: -15° to 90° Auto Flip 180°			
Manual Control Speed		Pan: 0.1° to 160° /s Tilt: 0.1° to 120° /s			
Preset Speed		Pan: 240° /s Tilt: 200° /s			

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)	
Transmission Distance 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		
Advanced Features	Defog, Compass Overlay		
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			
	EN 55032 EN 55024 EN 50130-4		
Certifications	EN 55024 EN 50130-4	I/CSA C22.2, No.60950-1	
Certifications CE	EN 55024 EN 50130-4		
Certifications CE UL Electromagnetic	EN 55024 EN 50130-4 UL60950-1 + CAN FCC Part 15 Subp		
Certifications CE UL Electromagnetic Compatibility (EMC)	EN 55024 EN 50130-4 UL60950-1 + CAN FCC Part 15 Subp ANSI C63.4-2014		
Certifications CE UL Electromagnetic Compatibility (EMC) Interface Video Output Audio Input	EN 55024 EN 50130-4 UL60950-1 + CAN FCC Part 15 Subp ANSI C63.4-2014 One (1) Channel I One (1) Channel	art B	
Certifications CE UL Electromagnetic Compatibility (EMC) Interface Video Output	EN 55024 EN 50130-4 UL60950-1 + CAN FCC Part 15 Subp ANSI C63.4-2014 One (1) Channel I One (1) Channel	art B HDCVI or CVBS, BNC	
Certifications CE UL Electromagnetic Compatibility (EMC) Interface Video Output Audio Input	EN 55024 EN 50130-4 UL60950-1 + CAN FCC Part 15 Subp ANSI C63.4-2014 One (1) Channel I One (1) Channel	art B HDCVI or CVBS, BNC annels	
Certifications CE UL Electromagnetic Compatibility (EMC) Interface Video Output Audio Input RS485	EN 55024 EN 50130-4 UL60950-1 + CAN FCC Part 15 Subp ANSI C63.4-2014 One (1) Channel I One (1) Channel One (1) Input: Two (2) Ch	art B HDCVI or CVBS, BNC annels	
Certifications CE UL Electromagnetic Compatibility (EMC) Interface Video Output Audio Input RS485 Alarm	EN 55024 EN 50130-4 UL60950-1 + CAN FCC Part 15 Subp ANSI C63.4-2014 One (1) Channel I One (1) Channel One (1) Input: Two (2) Ch	art B HDCVI or CVBS, BNC annels Channel	
Certifications CE UL Electromagnetic Compatibility (EMC) Interface Video Output Audio Input RS485 Alarm Electrical	EN 55024 EN 50130-4 UL60950-1 + CAN FCC Part 15 Subp ANSI C63.4-2014 One (1) Channel I One (1) Channel I One (1) Input: Two (2) Ch Output: One (1) C	art B HDCVI or CVBS, BNC annels Channel %)	
Certifications CE UL Electromagnetic Compatibility (EMC) Interface Video Output Audio Input RS485 Alarm Electrical Power Supply	EN 55024 EN 50130-4 UL60950-1 + CAN FCC Part 15 Subp ANSI C63.4-2014 One (1) Channel I One (1) Channel I One (1) Input: Two (2) Ch Output: One (1) C	art B HDCVI or CVBS, BNC annels Channel %)	
Certifications CE UL Electromagnetic Compatibility (EMC) Interface Video Output Audio Input RS485 Alarm Electrical Power Supply Power Consumption	EN 55024 EN 50130-4 UL60950-1 + CAN FCC Part 15 Subp ANSI C63.4-2014 One (1) Channel I One (1) Channel I One (1) Input: Two (2) Ch Output: One (1) C 24 VAC, 3 A (± 10 13 W, 23 W with	art B HDCVI or CVBS, BNC annels Channel %) IR on 40° F to +140° F), with built-in heater	
Certifications CE UL Electromagnetic Compatibility (EMC) Interface Video Output Audio Input RS485 Alarm Electrical Power Supply Power Consumption Environmental	EN 55024 EN 50130-4 UL60950-1 + CAN FCC Part 15 Subp ANSI C63.4-2014 One (1) Channel I One (1) Channel I One (1) Input: Two (2) Ch Output: One (1) C 24 VAC, 3 A (± 10) 13 W, 23 W with	art B HDCVI or CVBS, BNC annels Channel %) IR on 40° F to +140° F), with built-in heater	
Certifications CE CE UL Electromagnetic Compatibility (EMC) Interface Video Output Audio Input RS485 Alarm Electrical Power Supply Power Consumption Environmental Operating Conditions	EN 55024 EN 50130-4 UL60950-1 + CAN FCC Part 15 Subp ANSI C63.4-2014 One (1) Channel One (1) Channel One (1) Input: Two (2) Ch Output: One (1) Ch	art B HDCVI or CVBS, BNC annels Channel %) IR on 40° F to +140° F), with built-in heater	
Certifications CE UL Electromagnetic Compatibility (EMC) Interface Video Output Audio Input RS485 Alarm Electrical Power Supply Power Consumption Environmental Operating Conditions Ingress Protection	EN 55024 EN 50130-4 UL60950-1 + CAN FCC Part 15 Subp ANSI C63.4-2014 One (1) Channel One (1) Channel One (1) Input: Two (2) Ch Output: One (1) Ch	art B HDCVI or CVBS, BNC annels Channel %) IR on 40° F to +140° F), with built-in heater	
Certifications CE UL Electromagnetic Compatibility (EMC) Interface Video Output Audio Input RS485 Alarm Electrical Power Supply Power Consumption Environmental Operating Conditions Ingress Protection Construction Casing Dimensions	EN 55024 EN 50130-4 UL60950-1 + CAN FCC Part 15 Subp ANSI C63.4-2014 One (1) Channel One (1) Channel One (1) Input: Two (2) Ch Output: One (1) C 24 VAC, 3 A (± 10) 13 W, 23 W with -40° C to 60° C (-4 Less than 90% RH IP66 Metal Ø204.70 mm x 35	art B HDCVI or CVBS, BNC annels Channel %) IR on 40° F to +140° F), with built-in heater	
Certifications CE UL Electromagnetic Compatibility (EMC) Interface Video Output Audio Input RS485 Alarm Electrical Power Supply Power Consumption Environmental Operating Conditions Ingress Protection Construction	EN 55024 EN 50130-4 UL60950-1 + CAN FCC Part 15 Subp ANSI C63.4-2014 One (1) Channel I One (1) Channel I One (1) Input: Two (2) Ch Output: One (1) C 24 VAC, 3 A (± 10) 13 W, 23 W with -40° C to 60° C (-4 Less than 90% RH IP66	art B HDCVI or CVBS, BNC annels Channel %) IR on 40° F to +140° F), with built-in heater	

 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.

300

power failure

5 Pattern, 8 Tour, Auto Pan, Auto Scan

command in the specified period

DH-SD, Pelco-P/D (Auto recognition)

Human-oriented Focal Length and Speed Adaptation Auto restore to previous PTZ and lens status after

Activate Preset, Scan, Tour, Pattern if there is no

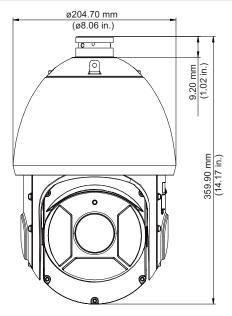
2. Transmission distance results verified by real-scene testing in Dahua's test laboratory. Actual transmission distances may vary due to external influences, cable quality, and wiring structures.

Ultra Series | 6C430IC

Ordering Information				
Туре	Part Number	Description		
4 MP PTZ Camera	6C430IC	4 MP 30x IR PTZ HDCVI Camera, Built-in Heater, True WDR		
Accessories,	AC24V/3A	Power Supply		
Included	64FB	Wall Mount		
	PFA114	Mount Adapter Required for use with PFB300C, PFB303S, PFB303W, and with custom third-party mounts.		
	PFA120	Junction Box		
	PFA140	Power Box		
Accessories, Optional	PFA150	Pole Mount		
	PFA151	Corner Mount		
	PFB300C	Ceiling Mount		
	PFB303S	Parapet Mount		
	PFB303W	Wall Mount		

Ceiling Mount	Junction Mount
PFA114 + PFB300C	PFA114 + PFB303W + PFA120
Power Box Mount	Pole Mount
PFA114 + PFB303W + PFA140	PFA114 + PFB303W + PFA150
Corner Mount	Parapet Mount
PFA114 + PFB303W + PFA151	PFA114+ PFB303S

Dimensions (mm/in.)





Accessories

Included:



64FB Wall Mount Optional :



PFA114 Mount Adapter



PFB300C Ceiling Mount



PFA151 Corner Mount





PFB303W Wall Mount



PFA120 Junction Box



PFB303S Parapet Mount



PFA140 Power box



PFA150 Pole Mount

