

# 4 MP In-ceiling PTZ HDCVI Camera

4 MP 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
- IK10 Vandal Resistance
- 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 crystal clear video in indoor 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 temperature range of -30 °C to +60 °C (-22 °F to +140 °F), the camera is designed for most indoor environments. Subjected and certified to rigorous dust and water immersion tests, the IP66 rating makes it suitable for most indoor applications. Its 6KV lightning rating provides protection against the camera and its structure from the effects of lightning.



## **Technical Specification** Video Camera Image Sensor 1/3-in. CMOS Sensor 2592(H) x 1520(V), 4 MP Effective Pixels Scanning System Progressive 1/3 s to 1/300,000 s Electronic Shutter Speed Color: 0.05 lux at F1.6 Minimum Illumination 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 60° to 2.2° Horizontal Angle of View 30x Optical Zoom **Focus Control** Auto, Manual 100 mm to 1000 mm (3.94 in. to 39.37 in.) Close Focus Distance DORI Distance<sup>1</sup> Observe (19 ppf) Detect (8 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: 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)

## 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

Resolution		0), 1080p (1920 x 1080), ), 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	
Video Transmission <sup>2</sup>	RG-59/U Coax	720p: 500 m (1640.42 ft) 1080p: 400 m (1312.34 ft) 4 MP: 300 m (984.25 ft)
	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 W	DR (120 dB)
White Balance	Auto, ATW, Indoo	or, 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 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

EN 55032

## 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

## Environmental

Operating Conditions	-30° C to 60° C (-22° F to +140° F), Less than 90% RH
Vandal Resistance	IK10

## Construction

Casing	Metal
Dimensions	Ø198.0 mm x 177.0 mm (Ø7.80 in. x 6.97 in.)
Net Weight	2.20 kg (4.85 lb)
Gross Weight	3.70 kg (8.16 lb)

<sup>2.</sup> 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 | 52C430IC

Ordering Information		
Туре	Part Number	Description
4 MP PTZ Camera	52C430IC	4 MP 30x In-ceiling PTZ HDCVI Camera, True WDR
Accessories, Included	AC24V/1.5A	Power Supply

## Accessories

Included:



AC24V/1.5A Power Supply

## Dimensions (mm/in.)



