

2 MP HDCVI PTZ Camera

2 MP 25x Starlight IR HDCVI PTZ Camera



System Overview

The 2 MP Starlight IR PTZ Dome camera features a 1/2.8-in. STARVIS[™] CMOS imager with a 25x optical zoom lens, and provides an all in one solution for capturing long-distance video surveillance for indoor and 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 PTZ camera is equipped with quick and accurate pan/tilt/zoom control and True WDR for applications with direct sunlight or glare.

Functions

Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

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.

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.

- 1/2.8-in. 2 MP STARVIS™ CMOS Sensor
- Powerful 25x Optical Zoom
- Starlight Technology for Ultra-low Light Sensitivity
- 1080p at 30 fps, 720p at 60 fps Maximum Resolution
- Maximum IR Distance up to 100 m (328 ft)
- IP66 Ingress Protection
- Designed for Extreme Temperature Environments
- Five-year Warranty*



Dual Video Output Signals

The camera offers one (1) BNC video output connection to transmit either 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.

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. 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.

Pro Series | 49225IC

Technical Specification

Camera					
Image Sensor		1/2.8-in. STARVIS™ CMOS Sensor			
Effective Pixels		1920(H) x 1080(V), 2 MP			
Scanning System		Progressive			
Electronic Shutter Speed		1/3 s to 1/300,000 s			
Minimum Illumination		Color: 0.005 lux at F1.6; 0 lux at F1.6 with IR on			
S/N Ratio		More than 55 dB			
IR Distance		Distance up to 100.0 m (328.08 ft)			
IR On/Off Control		Auto, Manual			
IR LEDs		Six (6)			
Lens					
Focal Length		4.8 mm to 120 mm			
Max. Aperture		F1.6 to F4.4			
Angle of View		Horizontal: 2.4° to 59.2°			
Optical Zoom		25x			
Focus Control		Auto, Manual			
Close Focus Distance		100 mm to 1000 mm			
DORI Distance ¹					
Detect (8 ppf)	Observe (19 ppf)		Recognize (38 ppf)	Identify (76 ppf)	
1613 m (5292 ft)	646 m (2119	9 ft)	323 m (1060 ft)	161 m (528 ft)	
PTZ					
Pan/Tilt Range		Pan: 0° to 360° endless Tilt: –15° to 90° Auto Flip 180°			
Manual Control Speed		Pan: 0.1° to 200° /s Tilt: 0.1° to 120° /s			
Preset Speed		Pan: 240° /s Tilt: 200° /s			
Presets		300			
PTZ Mode		5 Pattern, 8 Tour, Auto Pan, Auto Scan			
Speed Setup		Human-oriented Focal Length / 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		1080p (1920 x 1080), 720p (1280 x 720)		
Frame Rate		1080p at 30 fps or 720p at 30/60 fps		
Transmission Rates ²	RG-59/U Coax	720p: 500 m (1640.42 ft) 1080p: 400 m (1312.34 ft)		
	RG-6/U Coax 720p: 800 m (2624.67 ft) 1080p: 600 m (1968.50 ft)			
	CAT 6 UTP (balun required)	720p: 380 m (1246.72 ft) 1080p: 380 m (1246.72 ft)		
Day/Night		Auto (ICR), Color, B/W		
OSD Menu		English, French, German, Italian, Japanese, Polish, Portuguese, Russian, Spanish		
Backlight Compensation		BLC, HLC, WDR (120 dB)		
White Balance		Auto, ATW, Indoor, Outdoor, Manual		
Gain Control		Auto, Manual		
Noise Reduction		Ultra DNR (2D/3D)		
Advanced Features		Defog		
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 Comp	atibility (EMC)	FCC Part 15 Subpart B ANSI C63.4-2014		
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Electromagnetic Comp	atibility (EMC)	FCC Part 15 Subpart B ANSI C63.4-2014 One (1) BNC High-definition Video Output (HDCVI, AHD, TVI) or CVBS Standard		
Electromagnetic Comp Interface Video	atibility (EMC)	FCC Part 15 Subpart B ANSI C63.4-2014 One (1) BNC High-definition Video Output (HDCVI, AHD, TVI) or CVBS Standard Definition Video Output (switchable)		
Electromagnetic Comp Interface Video Audio	atibility (EMC)	FCC Part 15 Subpart B ANSI C63.4-2014 One (1) BNC High-definition Video Output (HDCVI, AHD, TVI) or CVBS Standard Definition Video Output (switchable) Input: One (1) Channel		
Electromagnetic Comp Interface Video Audio RS485	atibility (EMC)	FCC Part 15 Subpart B ANSI C63.4-2014 One (1) BNC High-definition Video Output (HDCVI, AHD, TVI) or CVBS Standard Definition Video Output (switchable) Input: One (1) Channel One (1) Port Input: Two (2) Channels		
Electromagnetic Comp Interface Video Audio RS485 Alarm Electrical	atibility (EMC)	FCC Part 15 Subpart B ANSI C63.4-2014 One (1) BNC High-definition Video Output (HDCVI, AHD, TVI) or CVBS Standard Definition Video Output (switchable) Input: One (1) Channel One (1) Port Input: Two (2) Channels		
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Electromagnetic Comp Interface Video Audio RS485 Alarm Electrical Power Supply	atibility (EMC)	FCC Part 15 Subpart B ANSI C63.4-2014 One (1) BNC High-definition Video Output (HDCVI, AHD, TVI) or CVBS Standard Definition Video Output (switchable) Input: One (1) Channel One (1) Port Input: Two (2) Channels Output: One (1) Channel 12 VDC, 3 A		
Electromagnetic Comp Interface Video Audio RS485 Alarm Electrical Power Supply Power Consumption		FCC Part 15 Subpart B ANSI C63.4-2014 One (1) BNC High-definition Video Output (HDCVI, AHD, TVI) or CVBS Standard Definition Video Output (switchable) Input: One (1) Channel One (1) Port Input: Two (2) Channels Output: One (1) Channel 12 VDC, 3 A		
Electromagnetic Comp Interface Video Audio RS485 Alarm Electrical Power Supply Power Consumption Environmental		FCC Part 15 Subpart B ANSI C63.4-2014 One (1) BNC High-definition Video Output (HDCVI, AHD, TVI) or CVBS Standard Definition Video Output (switchable) Input: One (1) Channel One (1) Port Input: Two (2) Channels Output: One (1) Channel 12 VDC, 3 A 13 W, 20 W with IR on -40° C to 70° C (-40° F to +158° F),		
Electromagnetic Comp Interface Video Audio RS485 Alarm Electrical Power Supply Power Consumption Environmental Operating Conditions		FCC Part 15 Subpart B ANSI C63.4-2014 One (1) BNC High-definition Video Output (HDCVI, AHD, TVI) or CVBS Standard Definition Video Output (switchable) Input: One (1) Channel One (1) Port Input: Two (2) Channels Output: One (1) Channel 12 VDC, 3 A 13 W, 20 W with IR on -40° C to 70° C (-40° F to +158° F), with built-in heater, Less than 90% RH		
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Electromagnetic Comp Interface Video Audio RS485 Alarm Electrical Power Supply Power Consumption Environmental Operating Conditions Ingress Protection Construction Casing		FCC Part 15 Subpart B ANSI C63.4-2014 One (1) BNC High-definition Video Output (HDCVI, AHD, TVI) or CVBS Standard Definition Video Output (switchable) Input: One (1) Channel One (1) Port Input: Two (2) Channels Output: One (1) Channel 12 VDC, 3 A 13 W, 20 W with IR on -40° C to 70° C (-40° F to +158° F), with built-in heater, Less than 90% RH IP66 Metal ø160.0 mm x 295.0 mm		

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.

Pro Series | 49225IC

Ordering Information

Туре	Part Number	Description		
2 MP PTZ Camera	49225IC	2 MP 25x Starlight IR HDCVI PTZ Camera, Built-in Heater, True WDR		
Accessories, included	DC12V/3A	Power Supply		
	PFB305W	Wall Mount		
Accessories, optional	PFA111	Mount Adapter		
	PFA120	Water-proof Junction Box		
	PFA140	Power Box		
	PFA150	Pole Mount		
	PFA151	Corner Mount		
	PFB300C	Ceiling Mount		
	PFB303S	Parapet mount		
	PFM820	UTC Controller		

Accessories

Included:



PFB305W Wall Mount



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PFA111 Mount Adapter



DC12V/3A

Power Supply

PFA120 Junction Box



PFB300C Ceiling Mount



PFM820 UTC Controller



PFA151 Corner Mount



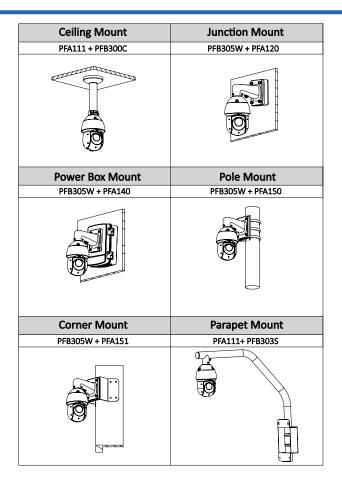
PFA140

PFA150

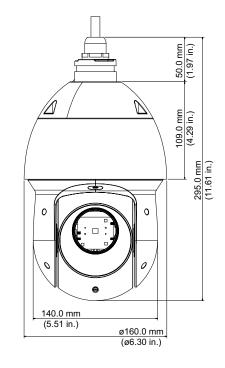
Pole Mount



PFB303S Parapet Mount



Dimensions (mm/in.)





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