

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 light sensitivity that captures 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) 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 Compatibility (EMC)		FCC Part 15 Subpart B ANSI C63.4-2014			
Interface					
Video		One (1) BNC High-definition Video Output (HDCVI, AHD, TVI) or CVBS Standard Definition Video Output (switchable)			
Audio		Input: One (1) Channel			
RS485		One (1) Port			
Alarm		Input: Two (2) Channels Output: One (1) Channel			
Electrical					
Power Supply		12 VDC, 3 A			
Power Consumption Environmental		13 W, 22 W with IR and Heater on			
		–40° C to 70° C (–40° F to +158° F),			
Operating Conditions		with built-in heater, Less than 90% RH			
Ingress Protection		IP66			
Casing		Metal			
Dimensions		ø160.0 mm x 295.0 mm			
Net Weight		(ø6.30 in. x 11.61 in.) 4.0 kg (8.82 lb)			
Gross Weight		4.20 kg (9.26 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.

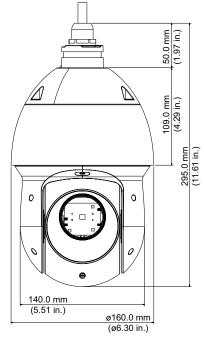
Pro Series | 49225IC

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	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			
	DC12V/3A	Power Adapter			

Ceiling Mount Junction Mount PFA111 + PFB300C PFB305W + PFA120 TOTOTO en. **Power Box Mount** Pole Mount PFB305W + PFA140 PFB305W + PFA150 **Corner Mount** Parapet Mount PFB305W + PFA151 PFA111+ PFB303S Ţ

Dimensions (mm/in.)





PFA111	
/lount Adapter	

PFB305W Wall Mount

Accessories

Included:

Optional:



Junction Box

PFA120



PFB300C Ceiling Mount



Corner Mount



PFA140

Power Box

Parapet Mount

PFB303S

DC12V/3A

Power Adapter



