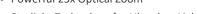


2MP HDCVI PTZ Camera

25x Starlight IR HDCVI PTZ Camera





• 1/2.8-in. 2MP STARVIS™ CMOS Sensor

- Powerful 25x Optical Zoom
- Starlight Technology for Ultra-low Light Sensitivity
- 1080p at 30 fps, 720p at 60 fps Maximum Resolution
- Supports Multiple Video Formats: HDCVI, CVBS, AHD and TVI
- Maximum IR Distance up to 100 m (328 ft)
- Predictive Focus Analysis (PFA) Technology
- ArcticPro Series Camera Operational down to -40° C (-40° F)
- IP66 Ingress Protection
- Five-year Warranty*











System Overview

The 2MP 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 security 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 security 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 security without the hassles of configuring a network.

Multi-Format Output Support

The camera supports multiple video formats including, HDCVI, CVBS, AHD, and TVI. The camera can switch between these four formats via the OSD menu making the camera compatible with not only HDCVI DVRs but also most existing HD/SD DVRs.

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.

Predictive Focus Analysis Technology

The camera uses innovative PFA Technology to improve zoom accuracy and to decrease focus time. A series of advanced algorithms more accurately judge the direction and the distance to a subject, improving picture clarity throughout the zooming process.

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.

ArcticPro

The Dahua ArcticPro Series of extreme-environment cameras combine temperature-tolerant components, a waterproof enclosure, and an integrated heater to ensure flawless operation in temperatures as low as -40° C (-40° F). For applications that demand high-resolution video with advanced features in extremely cold environments, the Dahua ArcticPro Series offers a camera to satisfy the most demanding requirements.

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.

Technical Specification

Camera

Image Sensor	1/2.8-in. STARVIS™ CMOS Sensor
Effective Pixels	1920(H) x 1080(V), 2MP
Scanning System	Progressive
Electronic Shutter Speed	1/3 s to 1/100,000 s
Minimum Illumination	Color: 0.005 lux at F1.6 B/W: 0.0005 lux at F1.6 0 lux at F1.6 with IR on
IR Distance	Distance up to 100.0 m (328.08 ft)
IR On/Off Control	Auto, Manual, Timer
IR LEDs	Six (6)

Lens

Focal Length	4.8 mm to 120 mm
Max. Aperture	F1.6 to F3.5
Angle of View	Horizontal: 2.8° to 61.0° Vertical: 0.40° to 22.60°
Optical Zoom	25x
Focus Control	Auto, Semi-automatic, Manual
Close Focus Distance	100 mm to 1500 mm (3.93 in. to 59.06 in.)

DORI Distance¹

Detect (8 ppf)	Observe (19 ppf)	Recognize (38 ppf)	Identify (76 ppf)
1655.20 m	656.80 m	331.0 m	165.50 m
(5430.45 ft)	(2154.86 ft)	(1085.96 ft)	(542.98 ft)

PTZ

Pan/Tilt Range	Pan: 0° to 360° Tilt: -15° to 90°
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)

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.

Video

Video		
Resolution		1080p (1920 x 1080), 720p (1280 x 720), D1 (704 x 580)
Frame Rate		1080p at 30 fps or 720p at 30/60 fps
	RG-59/U Coax	720p: 500 m (1640.42 ft) 1080p: 400 m (1312.34 ft)
Transmission Rates ²	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, Timer
OSD Menu		English, French, German, Italian, Japanese, Polish, Portuguese, Russian, Spanish
Backlight Compensation		BLC, HLC, WDR (120 dB)
White Balance		Auto, Indoor, Outdoor, Tracking, Manual, Sodium Lamp, Natural Light, Street Lamp
Gain Control		Auto, Manual
Noise Reduction		2D/3D
Advanced Features		Motion Detection, Region of Interest, Defog, Image Stabilization, Defog
Digital Zoom		16x
Flip		0° / 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
Alarm	Input: Two (2) Channels Output: One (1) Channel

Electrical

Power Supply	12 VDC, 3 A ± 10%
Power Consumption	9.6 W, 23.2 W with IR on

Environmental

Operating Conditions	-40° C to 70° C (-40° F to +158° F), with built-in heater, Less than 95% RH
Ingress Protection	IP66
Surge Protection	TVS 6000V

Construction

Casing	Metal
Dimensions	Ø160.0 mm x 295.4 mm (Ø6.30 in. x 11.63 in.)
Net Weight	3.0 kg (6.61 lb)
Gross Weight	4.20 kg (9.26 lb)

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 | 49225ICLA

Ordering Information		
Туре	Part Number	Description
2MP PTZ Camera	49225ICLA	2MP 25x Starlight IR HDCVI PTZ Camera, True WDR
Accessories, included	PFB305W	Wall Mount
	PFA111	Mount Adapter
	PFA120	Water-proof Junction Box
	PFA140	Power Box
Accessories,	PFA150	Pole Mount
optional	PFA151	Corner Mount
	PFB300C	Ceiling Mount
	PFB303S	Parapet Mount
	S042-1A120300HU	Power Adapter

Accessories

Included:



PFB305W Wall Mount

Optional:



PFA111 Mount Adapter



PFB300C Ceiling Mount



PFA120 Junction Box



PFA151 Corner Mount



PFA140



Power Box



PFA150 Pole Mount



PFB303S Parapet Mount

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

Dimensions (mm/in.)

