

2 MP HDCVI PTZ Camera

30x Starlight IR WDR



- 1/2.8-in. 2 MP STARVIS[™] Progressive-scan CMOS Sensor
- Powerful 30x Optical Zoom
- Supports Multiple Video Formats: HDCVI, CVBS, AHD and TVI
- Starlight Technology for Ultra-low Light Sensitivity
- 1080p at 30 fps or 720p at 30/60 fps, Maximum Resolution
- True Wide Dynamic Range (120 dB), 3D DNR
- Maximum IR Distance up to 150 m (492 ft)
- IP66 Ingress Protection
- Designed for Extreme Temperature Environments
- Five-year Warranty*



System Overview

The 2 MP Starlight IR PTZ Dome camera features a 1/2.8-in. STARVIS[™] CMOS imager with a 30x optical zoom lens, and provides an all in one solution for capturing long-distance video surveillance for outdoor applications, day or night. The camera offers a built-in heater and IP66 Ingress Protection to extend its use to the harshest environments. 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 lx. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

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 or via a UTC controller (PFM820), making the camera compatible with not only HDCVI DVRs but also most existing HD/SD DVRs.

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 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 +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection 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.

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Technical Specification

Са	m	е	ra

Presets PTZ Mode

Speed Setup

Idle Motion

Protocol

Power up Action

Camera					
Image Sensor		1/2.8 i	n. STARVIS™ CMOS		
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 lx at F1.6 0 lx at F1.6 with IR on			
S/N Ratio		More than 55dB			
IR Distance		Distance up to 150.0 m (492.13 ft)			
IR On/Off Control Au		Auto/N	Auto/Manual		
IR LEDs	Fou		Four (4)		
Lens					
Focal Length		4.5 mm to 135 mm			
Max. Aperture		F1.6 to F5.0			
Angle of View		Horizontal: 2.4° to 67.8°			
Optical Zoom		30x			
Focus Control Auto,		Auto, M	to, Manual		
Close Focus Distance 100 mm		m to 1000 mm (3.94 in. to 39.37 in.)			
DORI Distance ¹					
Detect (8 ppf)	Observe (19 ppf)		Recognize (38 ppf)	Identify (76 ppf)	
1862 m (6109 ft)	744 m (2441 ft)		372 m (1220 ft)	186 m (610 ft)	
PTZ					
Pan/Tilt Range Tilt: -1		° to 360° endless; 15° to 90° lip 180°			
Manual Control Spe	Manual (ontrol Speed		.1° to 300° /s; 1° to 200° /s		
Preset Speed	Pan: 40		100° /s		

Video				
Resolution	1080p (1920 × 1080) 720p (1280 × 720)			
Frame Rate	1080p at 30 fps or 720p at 30/60 fps			
Video Output	One (1) Channel, BNC High-definition Video Output (HDCVI, AHD, TVI) or CVBS Standard Definition Video Output (switchable)			
Transmission Distance 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	EN55032, EN55024, EN50130-4			
Safety	UL60950-1+CAN/CSA C22.2,No.60950-1			
Electromagnetic Compatibility (EMC)	FCC Part 15 subpart B ANSI C63.4- 2014			
Interface				
Video	Output: One (1) BNC			
Audio	Input: One (1) Channel			
RS485	One (1) Port			
Alarm	Input: Two (2) Channels Output: One (1) Channel			
Electrical				
Power Supply	24 VAC, 3 A (±10%)			
Power Consumption	13 W, 23 W with II	Ron		
Environmental				
Operating Conditions	-40 °C to 60 °C (-40 °F to +140 °F), Less than 90% RH			
Ingress Protection	IP66			
Construction				
Casing	Metal	Metal		
Dimensions	Ø186.0 mm x 309.0 mm (Ø7.32 in. x 12.17 in.)			
Net Weight	3.50 kg (7.72 lb)			
Gross Weight	6.80 kg (14.99 lb)			

 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 / Speed Adaptation Auto restore to previous PTZ and lens status after

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

 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.

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Ordering Information

Part Number	Description			
59230IC	2 MP 30x Starlight IR PTZ HDCVI Camera, Built-in Heater, True WDR			
AC24V/3A	Power Supply			
PFA110	Mount Adapter			
PFB300S	Wall Mount			
PFA120	Junction Box			
PFA140	Power Supply Box			
PFA150	Pole Mount			
PFA151	Corner Mount			
PFB300C	Ceiling Mount			
PFB303S	Parapet Mount			
PFM820	UTC Controller			
	Part Number 59230IC AC24V/3A PFA110 PFB300S PFA120 PFA120 PFA140 PFA150 PFA151 PFB300C PFB303S			

Accessories

Included:



PFB300S Wall Mount Optional:



PFA140 Power Box



PFA150 Pole Mount



PFM820 UTC Controller



PFA110 Mount Adapter

PFB300C

Ceiling Mount

PFA151

Corner Mount



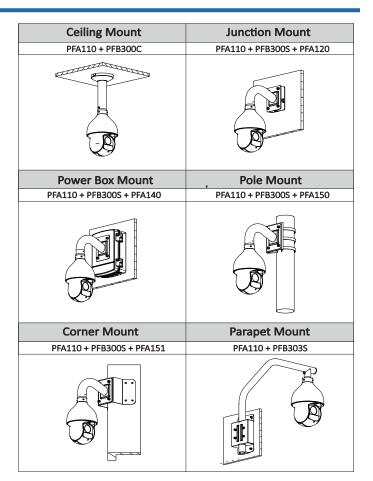
AC24V/3A Power Supply



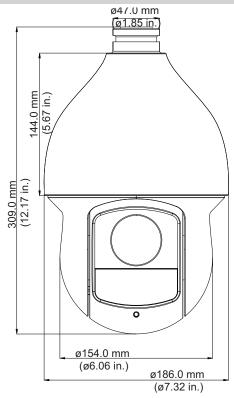
PFA120 Junction Box



PFB303S Parapet Mount



Dimensions (mm)





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