

2 MP HDCVI PTZ Camera

12x Starlight WDR



System Overview

The 2 MP Starlight IR PTZ Dome camera features a 1/2.8-in. STARVIS™ CMOS imager with a 12x 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.

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.

- 1/2.8-in. 2 MP STARVIS™ Progressive-scan CMOS Sensor
- Powerful 12x 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
- IP66 Ingress Protection, IK10 Vandal Resistance
- Designed for Extreme Temperature Environments
- Five-year Warranty*











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.

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.

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.

Environmental

With a built-in heater and a temperature range of $-40\,^{\circ}\text{C}$ to $+60\,^{\circ}\text{C}$ ($-40\,^{\circ}\text{F}$ to $+140\,^{\circ}\text{F}$), the camera is designed for extreme temperature environments. The camera complies with the IK10 Vandal Resistance impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. 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.

Technical Specification Camera Image Sensor 1/2.8 in. STARVIS™ CMOS 1920(H) x 1080(V), 2 MP **Effective Pixels** Scanning System Progressive Electronic Shutter Speed 1/3 s to 1/300,000 s Color: 0.005 lx at F1.6 Minimum Illumination B/W: 0.0005 lx at F1.6 S/N Ratio More than 50 dB Lens Focal Length 5.3 mm to 64 mm F1.6 to F3.0 Max. Aperture Horizontal: 4.9° to 58.4° Angle of View Optical Zoom **Focus Control** Auto, Manual Close Focus Distance 100 mm to 1000 mm (3.94 in. to 39.37 in.) DORI¹ Distance Observe (19 ppf) Detect (8 ppf) Recognize (38 ppf) Identify (76 ppf) 883 m (2987 ft) 353 m (1158 ft) 177 m (581 ft) 88 m (289 ft)

PTZ	
-----	--

Pan/Tilt Range	Pan: 0° to 360° endless Tilt: -2° to 90° Auto flip 180°
Manual Control Speed	Pan: 0.1° to 300° /s Tilt: 0.1° to 120° /s
Preset Speed	Pan: 300° /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)

1	1. The DORI distance is a measure of the general proximity for a specific classification to help pinpoint the righ
	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.

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.

Video

VIGCO		
Resolution	1080p (1920 × 108 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	
	RG-59/U Coax	720p: 500 m (1640.42 ft) 1080p: 400 m (1312.34 ft)
Transmission Distance 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	
OSD Menu	English, French, German, Italian, Japanese, Polish, Portuguese, Russian, Spanish	
Backlight Compensation	BLC, HLC, WDR (120 dB)	
White Balance	Auto, ATW, Indoor	r, 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	10 W, 19 W with heater on

Environmental

Operating Conditions	-40 °C to 60 °C (-40 °F to $+140$ °F), Less than 90% RH
Ingress Protection	IP66
Vandal Resistance	IK10

Construction

Casing	Metal
Dimensions	ø186.20 mm x 234.40 mm (ø7.33 in. x 9.23 in.)
Net Weight	2.30 kg (5.07 lb)
Gross Weight	4.30 kg (9.48 lb)

Lite Series | 40212IC

Ordering Information		
Туре	Part Number	Description
2 MP PTZ Camera	40212IC	2 MP 12x Starlight PTZ HDCVI Camera, Built-in Heater, True WDR
	AC24V/1.5A	Power Supply
Accessories, included	PFA110	Mount Adapter
	PFB300S	Wall Mount
	PFA120	Junction Box
	PFA140	Power Supply Box
	PFA150	Pole Mount
Accessories, optional	PFA151	Corner Mount
	PFB300C	Ceiling Mount
	PFB303S	Parapet Mount
	PFM820	UTC Controller

Accessories

Included:



PFB300S Wall Mount **Optional**:



PFA110 Mount Adapter



AC24V/1.5A Power Supply



PFA140 Power Box



PFB300C Ceiling Mount



PFA120 Junction Box



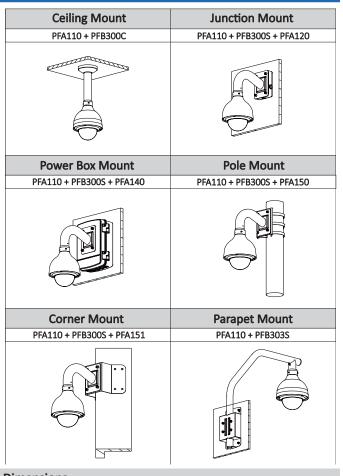
PFA150 Pole Mount



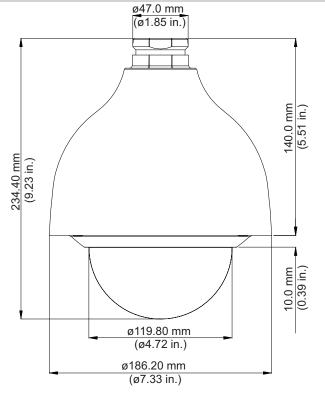
PFA151 Corner Mount



PFB303S Parapet Mount



Dimensions





PFM820 UTC Controller

