

2 MP Network PTZ Camera

30x Starlight IR PTZ Network Camera



- 1/2.8-in. 2 MP STARVIS™ CMOS Sensor
- Powerful 30x Optical Zoom
- · Starlight Technology for Ultra-low Light Sensitivity
- Triple-stream Encoding
- H.265 and H.264 Dual Codec
- 1080p at 60 fps Maximum Resolution
- ArcticPro Series Camera Operational down to -40° C (-40° F)
- IP66 Ingress Protection
- Intelligent Video System (IVS) Analytics with Auto-tracking
- Maximum IR Distance up to 150 m (492 ft)
- 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. The camera uses the Smart H.265+ video compression standard to improve encoding efficiency while preserving high-quality video. 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.

Intelligent Video System

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

PFA 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.

Auto-tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

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

Subjected and certified to rigorous dust and water immersion tests, the IP66 rating makes it suitable for demanding outdoor applications.



Video **Technical Specification** Smart H.265+, H.265, Smart H.264+, H.264 Compression Camera Streaming Capability Three (3) Streams 1/2.8-in. STARVIS™ CMOS Sensor **Image Sensor** 1080p (1920 x 1080), 1.3 MP (1280 x 960), **Effective Pixels** 1920(H) x 1080(V), 2 MP Resolution 720p (1280 x 720), D1 (704 x 480), CIF (352 x 240) RAM/ROM 512 MB / 128 MB Main Stream 1080p, 1.3 MP, or 720p at 60 fps Scanning System Progressive Frame Rate Sub Stream 1 D1 or CIF at 30 fps **Electronic Shutter Speed** 1/1 s to 1/30,000 s Sub Stream 2 1080p, 1.3 MP, 720p, D1, or CIF at 30 fps Color: 0.005 lux at F1.6 Minimum Illumination Bit Rate Control CBR, VBR 0 lux at F1.6 with IR on S/N Ratio Bit Rate H.265/H.264: 448 K to 8192 Kbps More than 55 dB IR Distance Distance up to 150.0 m (492.13 ft) Day/Night Auto (ICR), Color, B/W **Backlight Compensation** BLC, HLC, True WDR (120 dB) IR On/Off Control Auto, Manual White Balance Auto, ATW, Indoor, Outdoor, Manual IR LEDs Four (4) Gain Control Auto, Manual Lens Noise Reduction Ultra DNR (2D/3D) Focal Length 4.5 mm to 135 mm Motion Detection, Region of Interest, Advanced Features Electronic Image Stabilization (EIS), Defog Max. Aperture F1.6 to F4.4 Digital Zoom 16x Angle of View Horizontal: 67.8° to 2.4° Flip 180° Up to 24 areas **Privacy Masking** Optical Zoom 30x Audio Focus Control Auto, Manual G.711a, G.711Mu, AAC, G.722, G.726, G.729, Close Focus Distance 100 mm to 1000 mm Compression MPEG2-L2 DORI Distance¹ Network Detect (8 ppf) Observe (19 ppf) Identify (76 ppf) Recognize (38 ppf) RJ-45 (10 Base-T/100 Base-TX) Ethernet 1862 m (6109 ft) 744 m (2441 ft) 372 m (1220 ft) 186 m (610 ft) IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, Protocol DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, PTZ 802.1x Pan: 0° to 360° endless ONVIF, PSIA, CGI Interoperability Pan/Tilt Range Tilt: -15° to 90° Auto Flip 180° Streaming Method Unicast / Multicast Pan: 0.1° to 300° /s Manual Control Speed Max. User Access 20 users Tilt: 0.1° to 200° /s Network Attached Storage (NAS) Pan: 400° /s **Preset Speed Edge Storage** Local PC for instant recording Tilt: 300°/s Micro SD card, up to 128 GB 300 Presets IE 10, Firefox, Safari Web Viewer PTZ Mode 5 Pattern, 8 Tour, Auto Pan, Auto Scan Management Software Smart PSS, DSS Speed Setup Human-oriented Focal Length, Speed Adaptation **Smart Phone** IOS, Android, Windows Auto restore to previous PTZ and lens status after Power up Action Certifications power failure Activate Preset, Scan, Tour, Pattern if there is no EN 55032 Idle Motion command in the specified period CE EN 55024 EN 50130-4 Protocol UI UL60950-1 + CAN/CSA C22.2, No.60950-1 **Electromagnetic Compatibility** FCC Part 15 Subpart B ANSI C63.4-2014 Interface Input: One (1) Channel Audio Output: One (1) Channel

Alarm

Input: Two (2) Channels

Output: One (1) Channel

^{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.

Electrical

Power Supply	24 VAC, 3 A (± 10%), PoE+ (802.3at)
Power Consumption	13 W, 23 W with IR on
Environmental	
Operating Conditions	$-40~^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to +158 $^{\circ}\text{F}), with built-in heater Less than 90% RH$
Ingress Protection	IP66

Construction

Casing	Metal
Dimensions	Ø186.0 mm x 309.0 mm (Ø 7.32 in. x 12.16 in.)
Net Weight	3.50 kg (7.72 lb)
Gross Weight	6.80 kg (14.99 lb)

Intelligence

IVS triggers an alarm and takes a defined action for the following events:

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Standard Features	 Tampering with the camera. Error writing to an onboard Micro SD card. Error sending or receiving data over the network. Unauthorized access to the camera. 	
Premium Features		
Motion	An object moves through any part of the scene.	
Tripwire	A target crosses a user-defined line.	
Intrusion	A target enters or exits a defined perimeter.	
Scene Change	A person or object moves the camera to change the scene or covers the camera to obscure the scene.	
Abandoned/Missing Object	A target leaves an object in designated area, or a target removes an object from the same designated area.	
Advanced Features		
Auto-tracking	Controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene.	

Ordering Information Туре Part Number Description 2 MP 30x Starlight IR PTZ Network Camera, 2 MP PTZ Camera 59230UNI Built-in Heater, True WDR, IVS AC24V/3A Power Adapter Accessories, Mount Adapter PFA110 included PFB300S Wall Mount PFA120 Water-proof Junction Box PFA140 Power Box PFA150 Pole Mount optional PFA151 Corner Mount PFB300C Ceiling Mount PFB303S Parapet Mount

Accessories

Included:



PFB300S Wall Mount



PFA110 Mount Adapter



AC24V/3A Power Supply

Optional:



PFA140 Power Box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



PFA151 Corner Mount



PFB303S Parapet Mount

Ceiling Mount	Junction Mount
PFA110 + PFB300C	PFA110 + PFB300S + PFA120
Power Box Mount	Pole Mount
PFA110 + PFB300S + PFA140	PFA110 + PFB300S + PFA150
Corner Mount	Parapet Mount
PFA110 + PFB300S + PFA151	PFA110 + PFB303S



Dimensions (mm/in.)



