

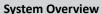
2 MP Network PTZ Camera

30x Starlight 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)
- IP67 Ingress Protection and IK10 Vandal Resistance
- Intelligent Video System (IVS) Analytics with Auto-tracking
- Five-year Warranty*





The 2 MP Starlight 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.

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.

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.













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.

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.

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 IP67 rating makes it suitable for demanding outdoor applications. The camera complies with the IK10 Vandal Resistance impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.).



Technical Spec	ification		
Camera			
Image Sensor		1/2.8-in. STARVIS™ CI	MOS Sensor
Effective Pixels		1920(H) x 1080(V), 2	MP
RAM/ROM		512 MB / 128 MB	
Scanning System		Progressive	
Electronic Shutter Speed		1/1 s to 1/30,000 s	
Minimum Illumination		Color: 0.005 lux at F1 B/W: 0.0005 lux at F1	
S/N Ratio		More than 55 dB	
Lens			
Focal Length		4.5 mm to 135.0 mm F1.6 to F4.4	
Maximum Aperture			
Angle of View		Horizontal: 67.8° to 2.4°	
Optical Zoom		30x	
Focus Control		Auto, Manual	
Close Focus Distanc	ce	100 mm to 1000 mm	
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 Manual Control Speed			
		Pan: 0° to 360° endles Tilt: 0° to 90° Auto Flip 180°	SS
		Pan: 0.1° to 350° /s Tilt: 0.1° to 250° /s	
Preset Speed		Pan: 500° /s Tilt: 500° /s	
Presets		300	
PTZ Mode		5 Pattern, 8 Tour, Auto Pan, Auto Scan	
Speed Setup		Human-oriented Foca	al Length, Speed
Power up Action		Auto restore to previo	ous PTZ and lens status
Idle Motion		Activate Preset, Scan, is no command in the	Tour, Pattern if there specified period
Protocol		DH-SD, Pelco-P/D (Au	to recognition)
Video			
Compression		Smart H.265+, H.265,	Smart H.264+, H.264
Streaming Capability		Three (3) Streams	
Resolution			1.3 MP (1280 x 960), 1 (704 x 480),
	Main Stream	1080p, 1.3 MP or 720	p at 60 fps
Frame Rate	Sub Stream 1	D1 or CIF at 30 fps	
	Sub Stream 2	1080p, 1.3 MP, 720p, D1, or CIF at 30 fps	

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.

Bit Rate Control	CBR, VBR
Bit Rate	H.265/H.264: 448 K to 8192 Kbps
Day/Night	Auto (ICR), Color, B/W
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	Motion Detection, Region of Interest, Electronic Image Stabilization (EIS), Defog
Digital Zoom	16x
Flip	180°
Privacy Masking	Up to 24 areas
Audio	
Compression	G.711a, G.711Mu, AAC, G.722, G.726, G.729, MPEG2-L2
Network	
Ethernet	RJ-45 (10 Base-T/100 Base-TX)
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x
Interoperability	ONVIF, PSIA, CGI
Streaming Method	Unicast / Multicast
Max. User Access	20 users
Edge Storage	Network Attached Storage (NAS) Local PC for instant recording, Micro SD card, up to 128 GB
Web Viewer	IE 10, Firefox, Safari
Management Software	Smart PSS, DSS
Mobile Operating System	IOS, Android
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
Audio	Input: One (1) Channel Output: One (1) Channel
RS485	One (1)
Alarm	Input: Two (2) Channels Output: One (1) Channel
Electrical	
Power Supply	24 VAC, 1.5 A (± 10%), PoE+ (802.3at)
Power Consumption	13 W, 23 W with heater on

Environmental

Operating Conditions	-40° C to 60° C (-40° F to 140° F), with built-in heater Less than 90% RH
Ingress Protection	IP67
Vandal Resistance	IK10
Lightning Rating	6 KV

Construction

Casing	Metal
Dimensions	ø186.0 mm x 253.0 mm (ø7.32 in. x 9.96 in.)
Net Weight	2.50 kg (5.51 lb)
Gross Weight	4.50 kg (9.92 lb)

Intelligence

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

175 triggers ari diarrir aria takes t	defined action for the following events.
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 PTZ Camera	50230UNI-A	2 MP 30x Starlight PTZ Network Camera, Built-in Heater, True WDR, IVS
	AC24V/1.5A	Power Adapter
Accessories, included	PFA110	Mount Adapter
	PFB300S	Wall Mount
	PFA120	Water-proof Junction Box
	PFA140	Power Box
Accessories,	PFA150	Pole Mount
optional	PFA151	Corner Mount
	PFB300C	Ceiling Mount
	PFB303S	Parapet Mount

Accessories

Included:



PFB300S Wall Mount



PFA110 Mount Adapter



AC24V/1.5A 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.)

