

2MP Laser PTZ Network Camera

45x PTZ Network Camera



Smart H.265+ and H.264 Dual Codecs

1/2.8-in. 2 MP Progressive-scan STARVIS[™] CMOS Sensor

• 2 MP at 60 fps Maximum Resolution

• Powerful 45x Optical Zoom Lens

- Starlight Technology for Ultra Low-light Sensitivity
- Predictive Focus Algorithm
- ArcticPro Series Camera Operational down to -40° C (-40° F)
- IP67 Ingress Protection
- Intelligent Video System with Auto-tracking
- Maximum IR Distance up to 550 m (1,804 ft)
- Supports Hi-PoE
- Five-year Warranty*



System Overview

The 2MP Laser IR PTZ Dome camera features a 1/2.8-in STARVIS[™] CMOS imager with a 45x 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 best-in-class light sensitivity, capturing 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.

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.

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.

Intelligent Video System (IVS)

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 supports face detection to quickly capture a face and upload the image to a server. The camera also 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.

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.



Ultra Series | 6AL245UNI

Technical Specification

Camera					
		1/2 8-	1/2.8-in. STARVIS™ CMOS		
Image Sensor Effective Pixels			1/2.8-III. STARVIS ^{III} CMOS		
RAM/ROM			1024 MB / 128 MB		
Scanning System			Progressive		
Electronic Shutter Speed			1/1 s to 1/30,000 s		
Minimum Illumination		Color:	Color: 0.005 Lux at F1.6 0 Lux with IR on		
S/N Ratio			More than 56 dB		
IR Distance			Distance up to 550 m (1804.46 ft)		
IR On/Off Control		Auto, Manual			
IR LEDs		Laser	Laser Module		
Lens					
Focal Length		3.95 n	3.95 mm to 177.7 mm		
Max. Aperture		F1.6 to	F1.6 to F4.95		
Angle of View		Horizo	Horizontal: 70.3° to 1.8°		
Optical Zoom		45x	45x		
Focus Control		Auto,	Auto, Manual		
Close Focus Distance		100 m	100 mm to 1000 mm		
DORI Distance ¹					
Detect	Observe		Recognize	Identify	
2345 m (7694 ft)	938 m (307	7 ft)	469 m (1539 ft)	234 m (768 ft)	
PTZ					
Pan/Tilt Range		Tilt: -2	Pan: 0° to 360° endless Tilt: -20° to 90°, Auto Flip 180°		
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 Patt	5 Pattern, 8 Tour, Auto Pan ,Auto Scan		
Speed Setup		Huma	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	DH-SD, Pelco-P/D (Auto recognition)		
Video					
Compression		Smart	Smart H.265+, H.265, Smart H.264+, H.264		
Streaming Capability		Three	Three (3) Streams		
Resolution			1080p (1920 x 1080), 1.3 MP (1280 x 960), 720p (1280 x 720), D1 (704 x 380), CIF (352 x 240)		
	Main Stream	1080p	1080p, 1.3 MP or 720p at 60 fps		
Frame Rate	Sub Stream 1	D1, CI	D1, CIF at 30 fps		
	Sub Stream 2	1080p	1080p, 1.3 MP, 720p, D1, or CIF at 30 fps		

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, True WDR (120 dB) White Balance Auto, ATW, Indoor, Outdoor, Manual Gain Control Auto, Manual Noise Reduction Ultra DNR (2D/3D) Motion Detection, Region of Interest, Advanced Features Electronic Image Stabilization (EIS), Defog Digital Zoom 16x Flip 180° Privacy Masking Up to 24 areas Audio G.711a, G.711Mu, AAC, G.722, G.726, G.729, Compression MPEG2-L2 Network Ethernet RJ45 (1000 Base-T/100 Base-TX) 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, 802.1x Interoperability ONVIF, PSIA, CGI Unicast / Multicast Streaming Method Max. User Access 20 users NAS (Network Attached Storage) Edge Storage Local PC for instant recording Micro SD Car, maximum 128 GB Web Viewer IE 10, Firefox, Safari Management Software Smart PSS, DSS Mobile Operating System IOS, Android Certifications EN55032 CE EN55024 EN50130-4 Electromagnetic Compatibility FCC Part 15 Subpart B ANSI C63.4-2014 (EMC) Interface Video Interface One (1) BNC (1.0 Vp-p, 75 Ω) Input: One (1) Channel Audio Interface Output: One (1) Channel RS485 One (1) Input: Seven (7) Channels Alarm Output: Two (2) Channels Electrical 24 VAC, 3 A (± 25%), Hi-PoE **Power Supply** Power Consumption 24 W, 38 W with IR on

1. The DORI distance is a general proximity of distance helping to pinpoint the correct camera for your needs. The DORI distance is calculated based on sensor specifications and lab test results according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify.

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Environmental

En	Environmental				
Operating Conditions		-40° C to 60° C (-40° F to +140° F) Less than 90% RH			
Ingress Protection		IP67			
Lightning Protection		8KV			
Cor	nstruction				
Casing		Metal			
Dimensions		ø240.0 mm x 357.0 mm (ø9.45 in. x 14.06 in.)			
Net Weight		6.75 kg (14.88 lb)			
Gross Weight		10.50 kg (23.15 lb)			
Intelligence					
IVS triggers an alarm and takes a 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.			
Prer	nium Features				
Ν	Notion	An object moves through any part of the scene.			
Т	ripwire	A target crosses a user-defined line.			
Ir	ntrusion	A target enters or exits a defined perimeter.			
S	cene Change	A person or object moves the camera to change the scene or covers the camera to obscure the scene.			
	bandoned/Missing Dbject	A target leaves an object in designated area, or a target removes an object from the same designated area.			
Advanced Features					
F	acial Detection	Detects and captures a snapshot of a human face in a defined area within a scene.			
Н	leat Map	Generates a visual representation of data.			
А	uto-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	6AL245UNI	2 MP 45x Laser PTZ Network Camera
	PFA111	Mount Adapter
Accessories, Included	PFB303W	Wall Mount
	AC24V/3A	Power Adapter
	PFA120	Junction Box
	PFA140	Power Box
	PFA150	Pole Mount
Accessories, Optional	PFA151	Corner Mount
	PFB300C	Ceiling Mount
	PFB303S	Parapet Mount

Accessories

Included:



Wall Mount



PFA111

Mount Adapter



AC24V/3A Power Adapter

Optional:



Power Box

PFA150

Pole Mount

PFB300C Ceiling Mount





PFA151

Corner Mount



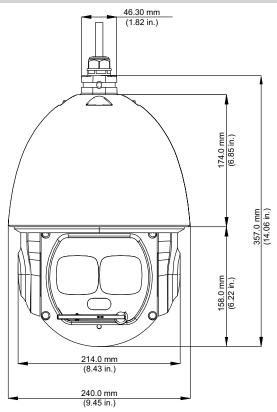
PFB303S Parapet Mount

Ceiling Mount	Junction Mount	
PFA111 + PFB300C	PFA111 + PFB303W + PFA120	
Power Box Mount	Pole Mount	
PFA111 + PFB303W + PFA140	PFA111 + PFB303W + PFA150	
Corner Mount	Parapet Mount	
PFA111 + PFB303W + PFA151	PFA111+ PFB303S	



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Dimensions (mm/in.)





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