

2 MP PTZ Network Camera

40x Starlight IR PTZ Network Camera



- 1/2.8-in. 2 MP STARVIS™ CMOS Sensor
- Powerful 40x 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
- Simultaneous SD Analog Video Output
- Ultra Wide Dynamic Range (140 dB)
- Maximum IR Distance up to 200 m (656 ft)
- Intelligent Video System (IVS) Analytics with Auto-tracking
- IP67 Ingress Protection and IK10 Vandal Resistance
- Designed for Extreme Temperature Environments
- Five-year Warranty*















System Overview

The 2 MP IR PTZ Dome camera features a 1/2.8-in. CMOS imager with a 40x optical zoom lens, and provides an all in one solution for capturing long-distance video surveillance for outdoor applications. The camera uses the H.265 video compression standard to improve encoding efficiency while preserving high-quality video. The PTZ camera a day/night mechanical IR cut filter and ultra-wide dynamic range to deliver crystal clear images in challenging lighting conditions.

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 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

Ultra-Wide Dynamic Range

For applications with both bright and low lighting conditions that change quickly, Ultra WDR (140 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

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 detects and captures a snapshot of human face in a defined area within a scene, and offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

Auto-tracking

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. 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.

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

Environmental

With a built-in heater and a temperature range of-40 °C to +70 °C (-40 °F to +158 °F), the camera is designed for extreme temperature environments. The camera complies an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) and to the PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Specification				Bit Rate Control	CBR, VBR
Camera				Bit Rate	H.265/H.264: 256 K to 8192 Kbps MJPEG: 4096 K to 20480 Kbps
Image Sensor		1/2.8-in. STARVIS™ CMOS		Day/Night	Auto (ICR), Color, B/W
Effective Pixels		1920(H) x 1080(V), 2 MP		Backlight Compensation	BLC, HLC, Ultra WDR (140 dB)
RAM/ROM		512 MB / 128 MB		White Balance	Auto, ATW, Indoor, Outdoor, Manual
Scanning System		Progressive		Gain Control	Auto, Manual
Minimum Illumina	tion	Color: 0.005 lux at F1.2		Noise Reduction	Ultra DNR (2D/3D)
S/N Ratio		0 lux at F1.2 (IR on) More than 56 dB		Noise Reduction	Motion Detection, Region of Interest,
IR Distance		Distance up to 200 m (656.17 ft)		Advanced Features	Electronic Image Stabilization (EIS), Defog
IR On/Off Control		Auto, Manual		Digital Zoom	16x
IR LEDs		Ten (10)		Flip	180°
Lens		(10)		Privacy Masking	Up to 24 areas
				Audio	
Focal Length		4.5 mm to 180 mm		, iddio	C 741- C 741May DCM AAC C 722 1 C 720
Max. Aperture		F1.2 to F3.5	70	Compression	G.711a, G.711Mu, PCM, AAC, G.722.1, G.729, MPEG2-L2
Angle of View Optical Zoom		Horizontal: 67.5°to 1.7°		Network	
Focus Control		40x			
Close Focus Distan	CP	Auto, Manual 100 mm to 1000 mm		Ethernet	RJ-45 (10/100 Base-T)
DORI Distance	4	100 11111 to 1000 11111		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,
Detect (8 ppf)	Observe (19 ppf)	Recognize (38 ppf)	Identify (76 ppf)		802.1x
2469 m (8100 ft)	988 m (3241 ft)	494 m (1621 ft)	247 m (810 ft)	Interoperability	ONVIF, PSIA, CGI
PTZ		"		Streaming Method	Unicast / Multicast
Pan/Tilt Range		Pan: 0° to 360° endle Tilt: -20° to 90°, Auto		Maximum User Access	20 users
Manual Control Speed		Pan: 0.1° to 200° /s Tilt: 0.1° to 120° /s		Edge Storage	NAS (Network Attached Storage) Local PC for Instant Recording Micro SD Card, maximum 128 GB
Preset Speed		Pan: 240° /s Tilt: 200° /s		Web Viewer	IE 10, Firefox, Safari
Presets		300		Management Coffee	County DCC DCC
PTZ Mode		5 Pattern, 8 Tour, Auto Pan, Auto Scan		Management Software	Smart PSS, DSS
Speed Setup		Human-oriented Focal Length, Speed Adaptation		Mobile Operating System	IOS, Android
Power up Action		Auto restore to previous PTZ and lens status after power failure		Certifications	
Idle Motion		Activate Preset, Scan, Tour, or Pattern if there is no command in the specified period		CE	EN 55032 EN 55024 EN 50130-4
Protocol		DH-SD, Pelco-P/D (auto recognition)		UL	UL: UL60950-1 + CAN/CSA C22.2, No.60950-1
Video				Electromagnetic Compatibility	FCC Part 15 Subpart B
Compression		H.265, H.264, MJPEG		(EMC)	ANSI C63.4-2014
Streaming Capability		Three (3) Streams		Interface	
Resolution		1080p (1920 x 1080), D1 (704 x 480), CIF (3		Video Interface	One (1) BNC Input: One (1) Channel
Main Stream 1080p at 60 fps², or 1.3 MP or 720p at 30 fps²		fps²	Audio Interface	Output: One (1) Channel One (1)	
Frame Rate	Sub Stream 1	D1 or CIF at 30 fps		1/3403	` '
	Sub Stream 2	1080p, 720p, or D1 at 30 fps		Alarm	Input: Seven (7) Channels Output: Two (2) Channels
Sub Stream 2		17.12-67.2.2.2.2.160		Electrical	
				Power Supply	24 VAC, 3 A (± 25%), Hi-PoE

^{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.

Power Consumption

24 W, 38 W with IR on

Cashing this model supports streaming resolutions of 1080p, 1.3 MP, or 720p at 60 fps, the manufacturer recommends streaming only a resolution of 1080p at 60 fps, and resolutions of 1.3 MP or 720p at 30 fps.

Ultra Series | 6AE240VNI

Environmental

Operating Conditions	-40° C to 70° C (-40° F to +158° F), with built-in heater Less than 90% RH		
Ingress Protection	IP67		
Vandal Resistance	IK10		
Lightning Protection Rating	6 kV		

Construction

Casing	Metal
Dimensions	Ø239.80 mm x 382.0 mm (Ø9.44 in. x 15.04 in.)
Net Weight	6.75 kg (14.88 lb)
Gross Weight	

Intelligence

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	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. 			
	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					
	Facial Detection	Detects and captures a snapshot of a human face in a defined area within a scene.			
	Heat Map	Generates a visual representation of data.			
	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

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Туре	Part Number	Description
2 MP PTZ Camera	6AE240VNI	2 MP 40x Starlight PTZ Network Camera, Built-in Heater WDR, IVS
	PFA111	Mount Adapter
Accessories, included	PFB303W	Wall Mount
	AC24V/3A	Power Supply
	PFA120	Junction Box
	PFA140	Power Box
Accessories,	PFA150	Pole Mount
optional	PFA151	Corner Mount
	PFB300C	Ceiling Mount
	PFB303S	Parapet mount

Accessories

Included:







Mount Adapter

AC24V/3A Power Supply

PFB303W Wall Mount

Optional:



PFA140 Power box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole 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



Dimensions (mm/in.)



