

4K IR PTZ Network Camera

4K 30x IR PTZ Network Camera



- 1/1.7-in. 8 MP Progressive Scan STARVIS™ CMOS Sensor
- Powerful 30x Optical Zoom Lens
- Smart H.265+ and H.264 Dual Codecs
- 4K at 30 fps Maximum Resolution
- Intelligent Video System with Auto-tracking
- Maximum IR Distance up to 200 m (656 ft)
- Supports Hi-PoE
- IP67 Environmental Protection and IK10 Vandal Resistance
- Five-year Warranty*











System Overview

The 4K IR PTZ Dome camera features a 1/1.7-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 Digital WDR for applications with direct sunlight or glare.

Functions

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.

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.

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.

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 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.). Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.



echnical Spec					
Camera					
Image Sensor		1/1.7-	1/1.7-in. STARVIS™ CMOS		
Effective Pixels		3840(H) x 2160(V), 8 MP			
RAM/ROM		1024 [1024 MB / 128 MB		
Scanning System		Progre	Progressive		
Electronic Shutter S	Speed	1/1 s t	o 1/30,000 s		
Minimum Illumination			Color: 0.05 Lux at F1.6 0 Lux with IR on		
S/N Ratio		More than 56 dB			
IR Distance		Distance up to 200 m (656.17 ft)			
IR On/Off Control		Auto, Manual			
IR LEDs		10			
_ens					
ocal Length		6 mm to 180 mm			
Max. Aperture		F1.6 to F4.8			
Angle of View		Horizontal: 61.2° to 2.1°			
Optical Zoom		30x			
Focus Control		Auto, Manual			
Close Focus Distance		100 mm to 1000 mm			
DORI Distance ¹					
Detect	Observe		Recognize	Identify	
892 m (12,769 ft)	1557 m (5108 ft)		778 m (2552 ft)	389 m (1276 ft)	
PTZ					

Pan/Tilt Range		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 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)	
Video			
Compression		Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	
Streaming Capability		Three (3) Streams	
Resolution		4K (3840 x 2160), 1080p (1920 x 1080), 1.3 MP (1280 x 960), 720p (1280 x 720), D1 (704 x 380), CIF (352 x 240)	
	Main Stream	4K, 1080p, 1.3 MP, 720p at 30 fps	
Frame Rate	Sub Stream 1	D1, CIF at 30 fps	

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

Sub Stream 2 1080p, 720p, D1 at 30 fps

Bit Rate Control	CBR, VBR	
Bit Rate	H.265 / H.264: 256 K to 8192 Kbps, MJPEG: 56 K to 20480 Kbps	
Day/Night	Auto (ICR), Color, B/W	
Backlight Compensation	BLC, HLC, DWDR	
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, PCM, G.726, AAC, G722.1, G.729, MPEG2-Layer2	
Network		
Ethernet	RJ-45 (1000 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	NAS (Network Attached 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		
CE	EN55032 EN55024 EN50130-4	
UL	UL60950-1+CAN/CSA C22.2,No.60950-1	
Electromagnetic Compatibility (EMC)	FCC Part 15 Subpart B ANSI C63.4- 2014	
Interface		
Video Interface	One (1) BNC (1.0 Vp-p, 75 Ω)	
Audio Interface	Input: One (1) Channel Output: One (1) Channel	
RS485	One (1)	
Alarm	Input: Seven (7) Channels Output: Two (2) Channels	
Electrical		
Power Supply	24 VAC, 3 A (± 25%), Hi-PoE	
Power Consumption	24 W, 38 W with IR on	

Environmental

Operating Conditions	-40° C to 70° C (-40° F to +158° F) Less than 90% RH	
Ingress Protection	IP67	
Vandal Resistance	IK10	

Construction

Casing	Metal
Dimensions	ø240.0 mm x 382.0 mm (ø9.45 in. x 15.04 in.)
Net Weight	6.75 kg (14.88 lb)
Gross Weight	10.10 kg (22.27 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.
Premium Features	

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

defined area within a scene.

the scene.

Generates a visual representation of data.

Controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in

Ordering Information

Heat Map

Auto-tracking

Туре	Part Number	Description	
4K PTZ Camera	6AE830VNI	4K 30x IR PTZ Network Camera, IVS	
Accessories, Included	PFA111	Mount Adapter	
	PFB303W	Wall Mount	
	AC24V/3A	Power Adapter	
Accessories, Optional	PFA120	Junction Box	
	PFA140	Power Box	
	PFA150	Pole Mount	
	PFA151	Corner Mount	
	PFB300C	Ceiling Mount	
	PFB303S	Parapet Mount	

Accessories

Included:







Mount Adapter



AC24V/3A Power Adapter

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



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Dimensions (mm)

