

4K IR PTZ Network Camera

4K 30x IR PTZ Network Camera



- 1/1.7-in. 8 MP Progressive Scan STARVIS[™] CMOS Imager
- Powerful 30x Optical Zoom Lens
- H.265 Encoding
- Maximum 4K at 30 fps and 1080p at 60 fps Resolutions
- 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 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.

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 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.

Protection

Supporting $\pm 25\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 8KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Interoperability

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



Ultra Series | 6AE830VNI

Technical Specification

Camera						
Image Sensor			1/1.7-in. STARVIS™ CMOS			
Effective Pixels			3840(H) x 2160(V), 8 MP			
RAM/ROM			1024 MB / 128 MB			
Scanning System			Progressive			
Electronic Shutter Speed			1/1 s to 1/300,000 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			
Lens						
Focal 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	
3892 m (12,769	ft)	1557 m (510	8 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			H.265, 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)			
Frame Rate	Main Stream		4K, 1.3 MP, 720p at 30 fps or 1080p at 60 fps			
	Sub Stream 1		D1, CIF at 30 fps			
	Sub Stream 2		1080p, 720p, D1 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.

Bit Rate Control	CBR, VBR	
Bit Rate	H.265 / H.264: 256 K to 8192 Kbps, MJPEG: 4096 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 (10/100 Base-T)	
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)	
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	

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Environmental

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

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Accessories

Included:

Optional :



Wall Mount



PFA111

Mount Adapter



AC24V/3A Power Supply





PFA140

Power box

PFA150

Pole Mount

PFB300C Ceiling Mount



PFA120 Junction Box





PFA151

Corner Mount



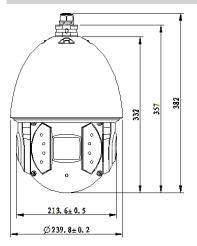
PFB303S Parapet Mount

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)







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