

4 MP PTZ Network Camera

30x IR PTZ Network Camera



System Overview

The 4 MP IR PTZ Dome camera features a 1/3-in 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 True WDR for applications with direct sunlight or glare.

Functions

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)

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.

- 1/3-in. 4 MP Progressive-scan CMOS Sensor
- Powerful 30x Optical Zoom
- Smart H.265+ and H.264 Video Compression Encoding
- 4 MP / 3 MP at 30 fps and 1080p at 30/60 fps
- True Wide Dynamic Range
- Intelligent Video System (IVS) with Auto-tracking
- Maximum IR distance up to 100 m (328 ft)
- IP66 Environmental Protection Rating
- Designed for Extreme Temperature Environments
- Five-year Warranty*



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.

Predictive Focus Algorithm (PFA) Technology

The innovative PFA Technology is a series of built-in algorithms that improve zoom accuracy and decrease focus time. As the camera zooms in on a subject, PFA controls the zoom rate and the focus control to keep the subject in focus. This technology ensures the subject stays in focus during the entire zoom 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 +60° C (–40° F to 140° F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP66 rating makes it suitable for demanding outdoor applications.

Technical Specification				Bit Rate Control	CBR, VBR	
Camera					Bit Rate	H.265/H.264: 448 K to 8192 Kbps
Image Sensor		1/3-in. CMOS			Day/Night	Auto (ICR), Color, B/W
Effective Pixels		2592(H) x 1520(V), 4 MP			Backlight Compensation	BLC, HLC, True WDR (120 dB)
RAM/ROM		1024 MB / 128 MB			White Balance	Auto, ATW, Indoor, Outdoor, Manual
Scanning Syste	m	Progressive			Gain Control	Auto, Manual
Electronic Shutter Speed		1/1 s to 1/30,000 s			Noise Reduction	Ultra DNR (2D/3D)
Minimum Illumination		Color: 0.05 lux at F1.6 0 lux at F1.6 with IR on			Advanced Features	Motion Detection, Region of Interest,
S/N Ratio		More than 55 dB			, lavaneca i catal es	Electronic Image Stabilization (EIS), Defog
IR Distance		Distance up to 100.0 m (328.10 ft)			Digital Zoom	16x
IR On/Off Cont	rol	Auto, Manual			Flip	180°
IR LEDs		Six (6)		Privacy Masking	Up to 24 areas	
Lens					Audio	
Focal Length		4.5 mm to 135 mm			Compression	G.711a, G.711Mu, AAC, G.722, G.726, G.729, MPEG2-L2
Max. Aperture		F1.6 to			Network	
Angle of View Optical Zoom		30x	ntal: 2.2° to 60°			DI 45 (40 D. T/400 D. TV)
Focus Control			Manual		Ethernet	RJ-45 (10 Base-T/100 Base-TX)
Close Focus Distance		Auto, Manual 100 mm to 1000 mm			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,
DORI ¹ Distance				802.1x		
Detect (8 pp	f) Observe (2	19 ppf)	Recognize (38 ppf)	Identify (76 ppf)	Interoperability	ONVIF, PSIA, CGI
2700 m (8858	ft) 1080 m (3	543 ft)	540 m (1772 ft)	270 m (886 ft)	Streaming Method	Unicast / Multicast
PTZ					Max. User Access	20 users
Pan/Tilt Range		Pan: 0° to 360° endless Tilt: –15° to 90°, Auto Flip 180°			Edge Storage	NAS (Network Attached Storage) Local PC for instant recording
Manual Contro	l Speed	Pan: 0.1° to 160° /s Tilt: 0.1° to 120° /s		Luge Storage	Micro SD Card Slot, maximum 128 GB	
Preset Speed		Pan: 240° /s Tilt: 200° /s			Web Viewer	IE 10, Firefox, Safari
Presets		300			Management Software	Smart PSS, DSS
PTZ Mode		5 Pattern, 8 Tour, Auto Pan, Auto Scan		Mobile Operating System	IOS, Android	
Speed Setup		Human-oriented Focal Length, Speed Adaptation		Certifications		
Power up Action		Auto restore to previous PTZ and lens status after power failure		CE	EN 55032 EN 55024	
Idle Motion			e Preset, Scan, Tour, or nd in the specified peri		CL	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 (EMC)	FCC Part 15 Subpart B ANSI C63.4-2014	
Compression		Smart H.265+, H.265, Smart H.264+, H.264		Interface		
Streaming Capability		Three (3) Streams			Video	One (1) BNC (1.0 Vp-p, 75 Ω) Output
Resolution		4 MP (2592 x 1520), 3 MP (2304 x 1296), 1080p (1920 x 1080), 720p (1280 x 720), D1 (704 x 480), CIF (352 x 240)		Audio	Input: One (1) Channel Output: One (1) Channel	
	Main Stream 4 MF		4 MP, 3 MP at 30 fps or 1080p, 1.3 MP, or 720p at 60 fps		RS485	One (1)
Frame Rate			D1, CIF at 30 fps		Alarm	Input: Two (2) Channels Output: One (1) Channel
	Sub Stream 2	1080p,	1080p, 1.3 MP, 720p, D1, or CIF at 30 fps		Electrical	

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 Supply

Power Consumption

24 VAC, 3 A (± 10%)

10.5 W, 26 W with IR on

Environmental

Operating Conditions	–40° C to 60° C (–40° F to +140° F), Less than 95% RH		
Ingress Protection	IP66		
Lightning Protection Rating	6 kV		

Construction

Casing	Metal
Dimensions	Ø204.70 mm x 359.90 mm (Ø8.06 in. x 14.17 in.)
Net Weight	5.0 kg (11.02 lb)
Gross Weight	8.30 kg (18.30 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				
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

Type Part Number		Description
4 MP PTZ Camera	6C430UNI	4 MP 30x IR PTZ Network Camera, WDR, IVS
Accessories,	64FB	Wall Mount
included	AC24V/3A	Power Adapter
	PFA114	Mount Adapter
	PFB303W	Wall Mount
	PFA140	Power Box
Accessories,	PFB300C	Ceiling Mount
optional	PFA120	Junction Box
	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB303S	Parapet mount

Accessories

Included:







AC24V/3A Power Adapter

Optional:







PFB303W Wall Mount



PFA140 Power Box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



PFA151 Corner Mount



PFB303S Parapet Mount

Ceiling Mount	Junction Mount	
PFA114 + PFB300C	PFA114 + PFB303W + PFA120	
Power Box Mount	Pole Mount	
PFA114 + PFB303W + PFA140	PFA114 + PFB303W + PFA150	
Corner Mount	Parapet Mount	
PFA114 + PFB303W + PFA151	PFA114+ PFB303S	



Dimensions (mm/in.)



