

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 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.

- 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
- Max. 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.

-	pecification				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) 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 Syster	nning System Progressive				Gain Control	Auto, Manual
Electronic Shutt	ctronic 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, Electronic Image Stabilization (EIS), Defog	
S/N Ratio		More th	nan 55 dB			
R Distance		Distance	Distance up to 100.0 m (328.10 ft)		Digital Zoom	16x
R On/Off Contr	rol	Auto, M	1anual		Flip	180°
R LEDs		Six (6)			Privacy Masking	Up to 24 areas
_ens					Audio	
Focal Length			to 135 mm		Compression	G.711a, G.711Mu, AAC, G.722, G.726, G.72 MPEG2-L2
Max. Aperture		F1.6 to F4.4			Network	
Angle of View		30x	ital: 2.2° to 60°			7, 15 (10.7) 7(10.7) 7.0
Optical Zoom			Janual		Ethernet	RJ-45 (10 Base-T/100 Base-TX)
Focus Control Auto, Manual Close Focus Distance 100 mm to 1000 mm				Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, I ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bon	
DORI¹ Distar	nce					802.1x
Detect (8 ppf) Observe (19 ppf) Recognize (38 ppf) Identify (76 ppf)		Interoperability	ONVIF, PSIA, CGI			
2700 m (8858 ft) 1080 m (3543 ft) 540 m (1772 ft) 270 m (886 ft)		Streaming Method	Unicast / Multicast			
PTZ					May User Access	20 users
Oan/Til+ Dange		Pan: 0°	to 360° endless		Max. User Access	
Pan/Tilt Range Manual Control Speed		Tilt: -15° to 90°, Auto Flip 180° Pan: 0.1° to 160° /s			Edge Storage	NAS (Network Attached Storage) Local PC for instant recording Micro SD Card Slot, maximum 128 GB
		Tilt: 0.1° to 120° /s Pan: 240° /s			Web Viewer	IE 10, Firefox, Safari
Preset Speed		Tilt: 200° /s			Management Software	Smart PSS, DSS
Presets		300			Management Software	3111a1 CF 33, D33
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				EN 55032
Idle Motion		Activate Preset, Scan, Tour, or Pattern if there is no command in the specified period			CE	EN 55024 EN 50130-4
Protocol		DH-SD, Pelco-P/D (auto recognition)		ition)	UL	UL: UL60950-1 + CAN/CSA C22.2, No.6095
/ideo					Electromagnetic Compatibi (EMC)	lity FCC Part 15 Subpart B ANSI C63.4-2014
Compression Smart		Smart H	1.265+, H.265, Smart H.	264+, H.264	Interface	
Streaming Capability Thre			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 MP 3 MP at 30 fps or		os	RS485	One (1)
Frame Rate	Sub Stream 1		at 30 fps		Alarm	Input: Two (2) Channels Output: One (1) Channel

Sub Stream 2 4 MP, 1080p, 1.3 MP, 720p, D1, or CIF at 30 fps

Electrical

Power Supply

Power Consumption

24 VAC, 3 A (± 10%) 10.5 W, 26 W with IR on

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.

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

	VS 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.			
Α	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
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.)



