

4 MP PTZ Network Camera

30x PTZ Network Camera



System Overview

The 4 MP 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 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 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
- Powerful 30x Optical Zoom
- 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
- IP67 Environmental Protection Rating and IK10 Vandal Resistance
- Designed for Extreme Temperature Environments
- PoE+ Support
- 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.

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 $+60^{\circ}$ 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 IP67 rating makes it suitable for demanding outdoor applications.



Camera				
Image Sensor		1/3-in.	CMOS	
Effective Pixels		2592(H	H) x 1520(V), 4 MP	
RAM/ROM		1024 N	ИВ / 128 MB	
Scanning Syster	n	Progre	ssive	
Electronic Shutt	ter Speed	1/1 s t	o 1/30,000 s	
Minimum Illum	ination		0.05 lux at F1.6 0.005 lux at F.16	
S/N Ratio		More t	than 55 dB	
Lens				
Focal Length		4.5 mr	n to 135 mm	
Max. Aperture		F1.6 to) F4.4	
Angle of View		Horizo	ntal: 2.2° to 60°	
Optical Zoom		30x		
Focus Control		Auto, I	Manual	
Close Focus Dis	tance		m to 1000 mm	
DORI ¹ Distar	nce			
Detect (8 ppf)	Observe (1	9 ppf)	Recognize (38 ppf)	Identify (76 ppf)
2700 m (8858 fi	t) 1080 m (35	543 ft)	540 m (1772 ft)	270 m (886 ft)
PTZ				
Pan/Tilt Range			° to 360° endless to 90°, Auto Flip 180°	
Manual Control	Speed		.1° to 350° /s 1° to 250° /s	
Preset Speed		Pan: 50 Tilt: 50		
Presets		300		
PTZ Mode		5 Patte	ern, 8 Tour, Auto Pan, A	uto Scan
Speed Setup		Humar	n-oriented Focal Length	, Speed Adaptation
Power up Actio	n		estore to previous PTZ a failure	and lens status after
Idle Motion			te Preset, Scan, Tour, or and in the specified per	
Protocol		DH-SD		
Video				
Compression		Smart	H.265+, H.265, Smart H	.264+, H.264
Streaming Capability		Three (3) Streams		
Resolution		1080p	2592 x 1520), 3 MP (23 (1920 x 1080), 720p (12 4 x 480), CIF (352 x 240	280 x 720),
	Main Stream		3 MP at 30 fps or , 1.3 MP, or 720p at 60	fps

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

Bit Rate Control	CBR, VBR
Bit Rate	H.265/H.264: 448 K to 8192 Kbps
Day/Night	Auto (ICR), Color, B/W
Backlight Compensation	BLC, HLC, WDR (120 dB)
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, AAC, G.722, G.726, G.729, MPEG2-L2
Network	
Ethernet	RJ-45 (10 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 Card, maximum 128 GB
Web Viewer	IE 10, Firefox, Safari
Management Software	Smart PSS, DSS
Mobile Operating System	IOS, Android
Certifications	
CE	EN 55032 EN 55024 EN 50130-4
UL	UL: UL60950-1 + CAN/CSA C22.2, No.60950-1
Electromagnetic Compatibility (EMC)	FCC Part 15 Subpart B ANSI C63.4-2014
Interface	
Audio Interface	In: One (1) Channel Out: One (1) Channel
Alarm	In: Two (2) Channels Out: One (1) Channel
Electrical	
Power Supply	24 VAC, 1.5 A (±10%), PoE+ (802.3at)
Power Consumption	13 W, 23 W with heater on

Environmental

Operating Conditions	-40° C to 60° C (–40° F to +140° F), Less than 90% RH
Ingress Protection	IP67
Vandal Resistance	IK10
Lightning Protection Rating	6 kV

Construction

Casing	Metal
Dimensions	ø186.0 mm x 253.0 mm (ø7.20 in. x 9.96 in.)
Net Weight	2.50 kg (5.51 lb)
Gross Weight	4.50 kg (9.92 lb)

Intelligence

IVS triggers an alarm and takes a defined action for the following events:

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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.	
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.	
	Controls the pan/tilt/zoom actions of the camera to	

the scene.

automatically track an object in motion and to keep it in

Ordering Information

Auto-tracking

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Туре	Part Number	Description
4 MP PTZ Camera	50430UNI	4 MP 30x PTZ Network Camera, WDR, IVS
	PFB300S	Wall Mount
Accessories, included	PFA110	Mount Adapter
	AC24V/1.5A	Power Adapter
	PFA140	Power Box
	PFB300C	Ceiling Mount
Accessories,	PFA120	Junction Box
optional	PFA150	Pole Mount
	PFA151	Corner Mount
	PFB303S	Parapet Mount

Accessories

Included:







PFA110 Mount Adapter



AC24V/1.5A 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
PFA110 + PFB300C	PFA110 + PFB300S + PFA120
Power Box Mount	Pole Mount
PFA110 + PFB300S + PFA140	PFA110 + PFB300S + PFA150
Corner Mount	Parapet Mount
PFA110 + PFB300S + PFA151	PFA110 + PFB303S



Dimensions (mm/in.)



