

# 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
- 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.

#### 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  $-40^\circ$  C to  $+70^\circ$  C ( $-40^\circ$  F to  $158^\circ$  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	mage Sensor 1/3-in. CMOS		Do./Night	Auto (ICD) Color DAM	
Effective Pixels		2592(H) x 1520(V), 4 MP		Day/Night	Auto (ICR), Color, B/W BLC, HLC, True WDR (120 dB)
RAM/ROM		1024 MB / 128 MB		Backlight Compensation White Balance	Auto, ATW, Indoor, Outdoor, Manual
Scanning System		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			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 Angle of View		F1.6 to F4.4 Horizontal: 2.2° to 60°		Network	
Optical Zoom		30x		Ethernet	RJ-45 (10 Base-T/100 Base-TX)
Focus Control		Auto, Manual			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,
Close Focus Distance		100 mm to 1000 mm		Protocol	
DORI¹ Dista					802.1x
Detect (8 ppf) Observe (1			Identify (76 ppf)	Interoperability	ONVIF, PSIA, CGI
2700 m (8858 f	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  Manual Control Speed		Pan: 0° to 360° endless 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 Car, maximum 128 GB
	· opecu	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			
PTZ Mode		5 Pattern, 8 Tour, Auto Pan, Auto Scan		Mobile Operating System	IOS, Android
Speed Setup		Human-oriented Focal Length, Speed Adaptation Auto restore to previous PTZ and lens status after		Certifications	
Power up Action		power failure  Activate Preset, Scan, Tour, or Pattern if there is no		CE	EN 55032 EN 55024 EN 50130-4
Idle Motion		command in the specified period		UL	UL: UL60950-1 + CAN/CSA C22.2, No.60950-1
Protocol Video		DH-SD, Pelco-P/D (auto recognition)		Electromagnetic Compatibility	FCC Part 15 Subpart B
Compression		Smart H.265+, H.265, Smart H.	264+ H 264	(EMC)	ANSI C63.4-2014
				Interface	
Streaming Capability		Three (3) Streams		Video Interface	One (1) BNC (1.0 Vp-p, 75 Ω)
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 Interface	In: One (1) Channel Out: One (1) Channel
	Main Stream	4 MP, 3 MP at 30 fps or 1080p, 1.3 MP, or 720p at 60 f	ps	RS485	One (1)
Frame Rate	Sub Stream 1	D1, CIF at 30 fps		Alarm	In: Two (2) Channels Out: 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	$-40^{\circ}$ C to $60^{\circ}$ C ( $-40^{\circ}$ F to $+140^{\circ}$ F), Less than 90% 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	<ul> <li>Tampering with the camera.</li> <li>Error writing to an onboard Micro SD card.</li> <li>Error sending or receiving data over the network.</li> <li>Unauthorized access to the camera.</li> </ul>				
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	
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.)



