# 4 MP PTZ Network Camera

30x PTZ Network 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\*

## CSP-IPPTZ30X(4MP)

#### **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.













#### 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  $+60^{\circ}$  C ( $-40^{\circ}$  F to  $140^{\circ}$  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.



Technical Specification						Bit Rate Control	CBR, VBR
Camera						Bit Rate	H.265/H.264: 448 K to 8192 Kbps
Image Sensor 1/3-i		1/3-in.	1/3-in. CMOS			Day/Night	Auto (ICR), Color, B/W
Effective Pixels 2592		2592(H	2592(H) x 1520(V), 4 MP			Backlight Compensation	BLC, HLC, WDR (120 dB)
RAM/ROM 10		1024 N	1024 MB / 128 MB			White Balance	Auto, ATW, Indoor, Outdoor, Manual
Scanning System Pr		Progres	Progressive			Gain Control	Auto, Manual
Electronic Shutter Speed 1/1		1/1 s to	1/1 s to 1/30,000 s			Noise Reduction	Ultra DNR (2D/3D)
Minimum Illumination			Color: 0.05 lux at F1.6 B/W: 0.005 lux at F.16			Advanced Features	Motion Detection, Region of Interest, Electronic Image Stabilization (EIS), Defog
S/N Ratio Mo			More than 55 dB			Digital Zoom	16x
Lens						Flip	180°
Focal Length 4.		4.5 mm	4.5 mm to 135 mm			Privacy Masking	Up to 24 areas
Max. Aperture F1.		F1.6 to	F1.6 to F4.4			Audio	
		Horizor	Horizontal: 2.2° to 60°			Addio	6744 67444 446 6733 6736 6733
Optical Zoom 30x		30x				Compression	G.711a, G.711Mu, AAC, G.722, G.726, G.729, MPEG2-L2
		Auto, N	Auto, Manual			Network	
Close Focus Distance 100			100 mm to 1000 mm			Ethernet	RJ-45 (10 Base-T/100 Base-TX)
DORI¹ Distance  Detect (8 ppf) Observe (19 ppf) Recognize (38 ppf) Identify (7			Identify (76 ppf)		Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UP ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, D DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjo	
Detect (8 ppf) 2700 m (8858 ft			Recognize (38 ppf)	270 m (886 ft)		Interoperability	802.1x ONVIF, PSIA, CGI
	) 1080 m (3	545 11)	540 m (1772 ft)	270 111 (886 11)			
PTZ		D 0°	t- 2008 II			Streaming Method	Unicast / Multicast
Pan/Tilt Range		Pan: 0° to 360° endless Tilt: 0° to 90°, Auto Flip 180°				Max. User Access	20 users
			Pan: 0.1° to 350° /s Tilt: 0.1° to 250° /s			Edge Storage	NAS (Network Attached Storage) Local PC for instant recording, Micro SD Card, maximum 128 GB
			Pan: 500° /s Tilt: 500° /s			Web Viewer	IE 10, Firefox, Safari
		300				Management Software	Smart PSS, DSS
PTZ Mode 5		5 Patte	5 Pattern, 8 Tour, Auto Pan, Auto Scan			Mobile Operating System	IOS, Android
Speed Setup Hui			Human-oriented Focal Length, Speed Adaptation			Certifications	
POWER IID ACTION			Auto restore to previous PTZ and lens status after power failure				EN 55032
Idle Motion A			Activate Preset, Scan, Tour, or Pattern if there is no command in the specified period			CE	EN 55024 EN 50130-4
Protocol DH-SD				UL	UL: UL60950-1 + CAN/CSA C22.2, No.60950-2		
Video						Electromagnetic Compatibility (EMC)	FCC Part 15 Subpart B ANSI C63.4-2014
		Smart H.265+, H.265, Smart H.264+, H.264			, ,	ANSI C03.4-2014	
Streaming Capability Three (3) Streams		04 × 1206)		Interface	In: One (1) Channel		
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	3 MP at 30 fps or			Alarm	In: Two (2) Channels Out: One (1) Channel
	wiaiii Sti Eaiil	1080p,	1.3 MP, or 720p at 60	fps		Electrical	

**Power Supply** 

Power Consumption

24 VAC, 1.5 A (±10%), PoE+ (802.3at)

13 W, 23 W with heater on

D1 or CIF at 30 fps

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

Frame Rate

Sub Stream 1

Sub Stream 2

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 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

Auto-tracking

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.				
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

## **Accessories**

#### Included:



PFB300S Wall Mount



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.)

