

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
- IK10 Vandal Resistance
- PoE+ Support
- Five-year Warranty*



System Overview

The 4 MP In-ceiling 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 detailed video for all indoor 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 -30° C to $+60^{\circ}$ C (-22° F to 140° F), the camera is designed for extreme temperature environments.



Pro Series | 52C430UNI

Technical Specification

Camera					
Image Sensor		1/3-in.	CMOS		
Effective Pixels		2592(H) x 1520(V), 4 MP			
RAM/ROM		1024 N	MB / 128 MB		
Scanning System		Progre	ssive		
Electronic Shutter Speed		1/1 s to	o 1/30,000 s		
Minimum Illumination			0.05 lux at F1.6).005 lux at F1.6		
S/N Ratio		More t	than 55 dB		
Lens					
Focal Length		4.5 mm to 135 mm			
Max. Aperture		F1.6 to F4.4			
Angle of View		Horizontal: 2.2° to 60°			
Optical Zoom		30x			
Focus Control		Auto, Manual			
Close Focus Distance		100 mm to 1000 mm			
DORI ¹ Distance					
Detect (8 ppf)	Observe (19	∋ppf)	Recognize (38 ppf)	Identify (76 ppf)	
2700 m (8858 ft) 1080 m (35		543 ft)	540 m (1772 ft)	270 m (886 ft)	
PTZ					
Pan/Tilt Range		Pan: 0° to 360° endless Tilt: 0° to 90° Auto Elip 180°			
Manual Control Speed		Tilt: 0° to 90°, Auto Flip 180° Pan: 0.1° to 350° /s			
Preset Speed		Tilt: 0.1° to 250° /s Pan: 500° /s Tilt: 500° /s			
Presets		300			
PTZ Mode		5 Pattern, 8 Tour, Auto Pan, Auto Scan			
Speed Setup		Human-oriented Focal Length, Speed Adaptation			
Power up Action		Auto restore to previous PTZ and lens status after			
Idle Motion		power failure Activate Preset, Scan, Tour, or Pattern if there is no command in the specified period			
Protocol		DH-SD			
Video					
Compression		Smart	H.265+, H.265, Smart H	.264+, H.264	
Streaming Capability		Three (3) Streams			
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)			
N	lain Stream	4 MP, 3 MP at 30 fps or 1080p, 1.3 MP, or 720p at 60 fps			
Frame Data					
Frame Rate Si	ub Stream 1	D1 or (CIF at 30 fps		

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, True 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

 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.

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Environmental

Environmental				
Operating Conditions	-30° C to 60° C (–22° F to +140° F), Less than 90% RH			
Vandal Resistance	IK10			
Lightning Protection Rating	6 kV			
Construction				
Casing	Metal			
Dimensions	ø198.0 mm x 177.0 mm (ø7.80 in. x 6.97 in.)			
Net Weight	2.20 kg (4.85 lb)			
Gross Weight	3.70 kg (8.16 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.			
	A target leaves an object in designated area, or a target removes an object from the same designated area.			
Advanced Features				
	Detects and captures a snapshot of a human face in a defined area within a scene.			
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	52C430UNI	4 MP 30x In-ceiling PTZ Network Camera, WDR, IVS
Accessories	AC24V/1.5A	Power Adapter

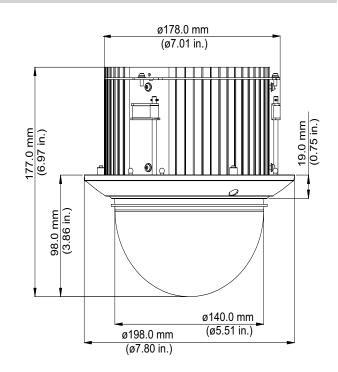
Accessories

Included:



AC24V/1.5A Power Adapter

Dimensions (mm/in.)



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