

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 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

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. 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.

Defog

Utilizing Dahua's advanced algorithm technology, the Defog feature dynamically adjusts the camera's contrast settings to provide improved image quality in scenes affected by fog, smog, mist, smoke or other low-contrast interference.

High Efficiency Video Coding (H.265)

The H.265 (ITU-T VCEG) video compression standard offers double the data compression ratio at the same level of video quality, or substantially improved video quality at the same bit rate, as compared to older video compression technologies. H.265 offers such impressive compression by expanding the pattern comparison and difference-coding, improving motion vector prediction and motion region merging, and incorporating an additional filtering step called sample-adaptive offset filtering.

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.



Technical S	necification	
Technical Specification Camera		
Image Sensor		1/3-in. CMOS
Effective Pixels		2592(H) x 1520(V), 4 MP
RAM/ROM		1024 MB / 128 MB
·		Progressive
Scanning System Minimum Illumination		Color: 0.05 Lux at F1.6 B/W: 0.005 Lux at F1.6
S/N Ratio		More than 55 dB
Lens		4.5 mm to 135 mm
Focal Length Max Aperture		F1.6 to F4.4
Max. Aperture		Horizontal: 2.2° to 60°
Angle of View		30x
Optical Zoom		Auto, Manual
Focus Control		
Close Focus Distance		100 mm to 1000 mm
PTZ		Pan: 0° to 360° endless
Pan/Tilt Range		Tilt: 0° to 90°, Auto Flip 180° Pan: 0.1° to 350° /s
Manual Control Speed		Tilt: 0.1° to 250°/s
Preset Speed		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 Actio	n	Auto restore to previous PTZ and lens status after power failure
Idle Motion		Activate Preset, Scan, Tour, or Pattern if there is no command in the specified period
Protocol		DH-SD
Video		
Compression		H.265, H.264, MJPEG
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)
	Main Stream	4 MP, 3 MP at 30 fps or 1080p, 1.3 MP, 720p at 60 fps¹
Frame Rate	Sub Stream 1	D1, CIF at 30 fps
	Sub Stream 2	1080p, 1.3 MP, 720p at 30 fps

Bit Rate Control	CBR, VBR	
Bit Rate	H.265/H.264: 448 K to 8192 Kbps MJPEG: 5120 K to 10240 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 (10/100 Base-T)	
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, 128 GB	
Web Viewer	IE 10, Firefox, Safari	
Management Software	Smart PSS, DSS	
Mobile Operating System	IOS, Android, Windows	
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)	
B 0 11		

13 W

Power Consumption

 $^{1. \} Although this model supports streaming resolutions of 1080p, 1.3 \ MP, or 720p at 60 \ fps, the manufacturer recommends streaming only a resolution of 1080p at 60 \ fps, and resolutions of 1.3 \ MP or 720p at 30 \ fps.$

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	Ф198.0 mm x 177.0 mm (Ф7.80 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:

The trippers are didn't and takes a defined determined 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.	
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.	
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 Supply

Accessories

Included:



AC24V/1.5A Power Supply

Dimensions (mm)



