



MV-P428C-X30-PTZ

5-inch 4MP Smart Dual Light Network PTZ Camera

FEATURES

- 1/1.8" progressive scan CMOS
- 30x optical zoom, 16x digital zoom
- Support face, human and vehicle detection and capture
- Support smoke and fire detection as well as smart motion detection
- Auto tracking and perimeter protection based on deep learning
- Intelligent analysis: intrusion, single line crossing, double line crossing, loitering, wrong-way, illegal parking and people counting
- True WDR, 3D DNR, ICR, Optical Defog and EIS
- Built-in Microphone and Speaker
- Smart Illumination, Up to 250 m IR and 60 m warm light distance
- Built-in SD card slot, up to 256GB
- IP66



AI Video Analytics

- 8 intelligent VCA modes powered by AI engine, which can intelligently filter objects to focus on human and vehicle detection.
- People Counting technology provides high accuracy and real-time data based on AI algorithm with statistic reports.
- Face Detection function detects human faces in the monitoring scene and captures the snapshots, which greatly enhances the monitoring efficiency.

MV-P428C-X30-PTZ



TECHNICAL SPECIFICATION

CAMERA

Image Sensor	1/1.8" Progressive Scan CMOS
Max Resolution	2592(H) × 1520(V)
Electronic Shutter	Auto/Manual, 1/5 to 1/20,000s
Min. illumination	Color: 0.007 Lux @ (F1.6, AGC ON), B/W: 0.002 Lux @ (F1.6, AGC ON), 0 Lux with light
Day & Night	Auto (ICR)
Wide Dynamic Range	True WDR

LENS

Focal Length	7 to 210 mm
Max. Aperture	F1.61 to F5.15
Angle of View	H: 59.2° to 2.5°, V: 34.6° to 1.4°
Optical Zoom	30x
Digital Zoom	16x
Iris Control	Auto/Manual
Focus Control	Auto/Manual/Semi-automatic

DORI

	Lens	Detect	Observe	Recognize	Identify
DORI Distance	7 mm	95 m (311.7 ft)	38 m (136.5 ft)	19 m (62.3 ft)	9.5 m (31.2 ft)
	210 mm	2,240 m (7,349.1 ft)	896 m (2,939.6 ft)	448 m (1,469.8 ft)	224 m (734.9 ft)

ILLUMINATOR

Illuminator Type	IR, Warm light
Illumination Distance	IR distance up to 250m (820.21ft) Warm lights distance up to 60m (196.85ft)
Illumination On/Off Control	Auto/Manual

INTELLIGENT ANALYSIS

Multi-Object Detection	Support face, human, vehicle detection and capture
Smoke and Flame Detection	Support
Intelligent Analysis	Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way detection, Illegal parking, Smart motion detection (support the accurate detection of vehicle and human)
People Counting	Support
Smart Tracking	Support

MV-P428C-X30-PTZ



TECHNICAL SPECIFICATION

PTZ	
Pan/Tilt Range	Pan: 0° to 360° endless, Tilt: -15° to +90°
Pan Speed	Pan speed: 0.1° to 180°/s, preset speed: 180°/s
Tilt Speed	Tilt speed: 0.1° to 90°/s, preset speed: 90°/s
Presets	400
Patrol Scan	6 Track, 12 Scan, 12 Patrol (up to 32 presets each patrol)
Power-Off Memory	Support
3D Positioning	Support
PTZ Status Display	Support
Idle Motion	The time can be set (1-240 minutes), and functions such as preset positions, patrols, scans, and tracks can be run.

AUDIO & VIDEO	
Streaming Capability	3 Streams
Stream/Frame Rate	Stream1: 2592×1520, 2304×1296, 1920×1080, 1280×720 @25/30fps Stream2: D1, VGA, CIF @25/30fps Stream3: VGA, CIF, QVGA @25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Stream1: 200 kbps to 16 Mbps Stream2: 100 kbps to 6 Mbps Stream3: 100 kbps to 3 Mbps
Smart Encoder	Support
Region of Interest (ROI)	Support
Audio Compression	G.711: 64Kbps, RAW_PCM: 128Kbps
Sound Warning	Sound warning alarm: Customizable voice and alarm sounds

IMAGE	
Image Adjustment	Brightness, Sharpness, Contrast, Saturation adjustable
Mirror	Support
Exposure Mode	Auto/Manual
White Balance	Auto/Manual
Day/Night Setting	Auto, Day, Night, Time
Noise Reduction	2D/3D DNR
Image Enhancement	HLC, BLC, Defog, WDR, Anti-shake
S/N Ratio	55dB
Motion Detection	Support
Privacy Masking	Support 40 zones, mask color configurable

EVENT	
Alarm Triggers	IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Abnormal sound detection
Alarm Events	Alarm record, Alarm output, FTP upload, SMTP upload, Audible alarm output

MV-P428C-X30-PTZ



TECHNICAL SPECIFICATION

NETWORK

Protocols	IPv4, IPv6, TCP/IP, HTTP, HTTPS, RTSP/RTP/RTCP, IGMP/Multicast, SMTP, DHCP, NTP, DNS, DDNS, QoS, SNMP, 802.1X, UDP, ICMP, ARP, TLS
Interoperability	ONVIF, SDK, CGI
Streaming Method	Multicast
Max. User Access	10 Users
Web Viewer	<IE11, Chrome, Firefox, Microsoft Edge

INTERFACE

Network Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector
Built-in Microphone	Support
Built-in Speaker	Support
Audio Interface	1ch Input, 1ch Output
Alarm Interface	2ch Input, 2ch Output
Reset Button	Support
SD Card Slot	Built-in, up to 256GB

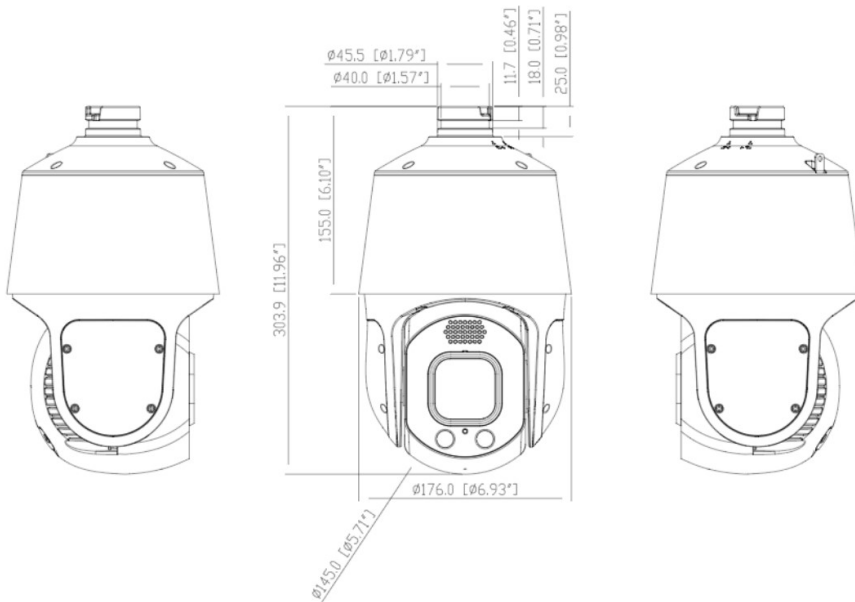
GENERAL

Language	English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian. Default: English
Power Supply	24VAC/36VDC/PoE++ (802.3bt), Standard Equipped: 36VDC
Power Consumption	Less than 25 W (illuminator + speaker + PTZ working + glass defogging)t
Operating Temperature	-40°C to 60°C (-40°F to 140 °F)
Operating Humidity	Less than 90% RH
Ingress Protection	IP66
Certifications	CE/FCC
Material	Metal
Dimensions	φ176.0 × 303.9 mm (φ6.93 × 11.96 inch)
Net Weight	4 Kg (8.82 lb)

MV-P428C-X30-PTZ



STRUCTURE DIAGRAMS (mm)



ACCESSORIES (Optional)



Wall Bracket



Ceiling Bracket



Corner Mount



Pole Mount



Junction Box



Corner Mount



Pole Mount