SN-IPS8657ZDC-Z5-A

5MP Wi-Fi Active Deterrence Network PTZ Camera



Key Features

- 1/2.7” progressive scan CMOS, up to 5MP (2880 × 1620) @ 25/30 fps
- 5x optical zoom, 16x digital zoom
- Supports face, human, and vehicle detection with snapshot capture
- Supports human and vehicle attribute analysis
- Intelligent analytics: Intrusion, smart motion detection, line crossing, loitering, wrong-way detection, illegal parking, smoke and flame detection, and people counting.
- Supports alarm-linked tracking and intelligent human/vehicle tracking
- True WDR(120dB), 3D DNR, ICR, Defog and DIS
- Support Wi-Fi 802.11 b/g/n
- Built-in IR and warm light illumination up to 50 m (IR) and 30 m (warm light)
- Built-in red and blue strobe lights with audible alarm for active deterrence
- Built-in microphone and speaker for two-way audio
- 1/1 alarm I/O; built-in microSD card slot (up to 1 TB)
- IP66-rated protection

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Specifications

Camera	
Image Sensor	1/2.7” Progressive Scan CMOS
Max Resolution	5MP, 2880(H)×1620(V)
Shutter Speed	1/5 to 1/20,000s
Min Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0.001 Lux @ (F1.6, AGC ON), 0 Lux with illuminator on
Day & Night	Auto (ICR)
S/N Ratio	55 dB
Lens	
Focal Length	2.7–13.5 mm (5× optical zoom)
Max. Aperture	F1.66–F3.03
Field of View (FOV)	H: 111.5°–32.3°, V: 57.5°–17.9°
Digital Zoom	16x
Iris	Fixed Iris
Focus Control	Auto / Manual / Semi-automatic
Illuminator	
Type	IR, Warm light
IR wavelength	850 nm
Distance	IR distance up to 50 m (164.0 ft) Warm lights distance up to 30 m (98.4 ft)
Control	IR mode, White mode, Intelligent mode, None
Intelligent Analytics	
AI Multi-Target Detection	- Supports face, human, and vehicle detection with snapshot capture - Supports human and vehicle attribute analysis - Supports tracking display modes: Full Frame, Four-Corner Frame, and Mosaic
Attribute Analysis	Human Attributes: Gender, age, glasses, hat, bag, upper clothing color & style, lower clothing color & style, reflective vest Vehicle Attributes: Type, color, brand, orientation
Intelligent Analysis	Intrusion detection, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, and illegal parking - Supports alarm triggering based on specified target types (human/vehicle)
Smoke and Flame Detection	Supported
People Counting	Supported
Video & Audio	
Number of Streams	3 Streams

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Resolution	Stream 1: 2880 × 1620, 2560 × 1440, 2304 × 1296, 1920 × 1080, 1280 × 720 Stream 2: D1, VGA, 640 × 360, CIF, QVGA Stream 3: VGA, CIF, QVGA
Frame Rate	Up to 25/30 fps
Bit Rate Control	CBR/VBR
Bit Rate	Stream 1: 200 Kbps to 12 Mbps Stream 2: 100 Kbps to 6 Mbps Stream 3: 100 Kbps to 3 Mbps
Smart Encoding	Supported
Region of Interest (ROI)	Supported
Audio Compression	G.711 A-law, G.711 μ-law, RAW_PCM
Audio Bit Rate	64 kbps (G.711), 128 kbps (RAW_PCM)
Image	
Image Adjustment	Brightness, Sharpness, Contrast, Saturation adjustable
Scene Mode	Indoor, Outdoor, Mirror
Exposure Mode	Auto, Manual, Shutter priority
White Balance	Auto, Tungsten, Fluorescent, Daylight, Shadow, Manual
Day/Night Setting	Auto, Day mode, Night mode, Timer
Noise Reduction	2D/3D DNR
Image Enhancement	HLC, BLC, Defog, WDR, Anti-shake
Wide Dynamic Range	True WDR (120 dB)
Privacy Masking	Up to 40 privacy zones
PTZ	
Pan/Tilt Range	Pan: 0° to 355° endless, Tilt: -20° to +90° (auto-flip)
Pan Speed	Pan speed: 0.1° to 60°/s, preset speed: 60°/s
Tilt Speed	Tilt speed: 0.1° to 50°/s, preset speed: 50°/s
Preset Accuracy	≤ 0.3°
Preset	400
Track	6 Track
Scan	12 Scan
Tour	12 Tour (up to 32 presets each tour)
Intelligent Tracking	Human/Vehicle auto tracking
Power-Off Memory	Supported
3D Positioning	Supported
PTZ Status Display	Supported
Idle Motion	The time can be set (1-240 minutes), and functions such as preset positions, patrols, scans, and tracks can be run.
Event	

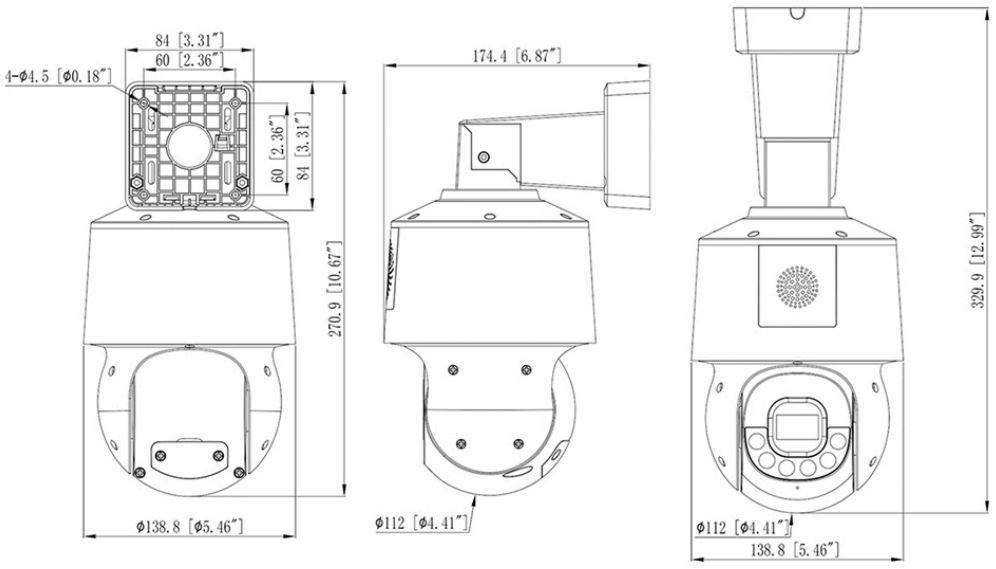
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Alarm Triggers	IVS, Motion detection, Alarm input, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection
Event Actions	Alarm record, FTP upload, Email Notification, Snapshot, Alarm output, Alarm-linked tracking, Audible alarm output, White light alarm output, Red and blue alarm output
Network	
Protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTCP/RTP, TCP/UDP, NTP, ARP, UPnP, FTP, SMTP, QoS, ICMP, IGMP, SMTP, 802.1x, SNMP, Multicast
Application Programming Interface	ONVIF (Profile S/T/G/M), SDK, CGI
Max Concurrent Streams	10 channels
User/Host Level	32+ users, 3 user levels: Administrator, Operator, and Media User
Web Viewer	Chrome, Firefox, Microsoft Edge, IE11 or earlier
Wi-Fi	Wi-Fi Standard: IEEE 802.11a/b/g/n/ac/ax (Wi-Fi 6) Wi-Fi Frequency: 2.4 GHz/5 GHz Dual Band Wi-Fi Security: WEP/WPA/WPA2/WPA3-SAE Wi-Fi Transmission Rate: - IEEE 802.11b: Up to 11 Mbps - IEEE 802.11g: Up to 54 Mbps - IEEE 802.11n: Up to 150 Mbps - IEEE 802.11ax: Up to 286.8 Mbps Bluetooth: Bluetooth Low Energy (BLE) 5.4
Security	
OS / Firmware Protect	Encrypted firmware, Secure boot, Signed firmware
User Authentication	Digest authentication, Brute-force attack protection
Network Authentication	IEEE 802.1X (EAP-TLS)
Secure Communication	HTTPS, WSS (WebSocket Secure), SRTP
Access Control	IP-based access control, Auto logout
Data Protect	Encryption credentials
Audit	Access, system, and event logs
Secure Storage	AES-256 encrypted SD card storage
Supply Chain Security	SBOM
Interface	
Network Interface	1 × RJ45 10/100 Mbps Ethernet port
Built-in Microphone	Supported
Built-in Speaker	Max. sound transmission distance up to 60 m (45–48 dB)
Alarm Interface	1 input, 1 output
SD Card Slot	Built-in microSD card slot (up to 1 TB)
Reset Button	Supported
General	
Language	English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English

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Power Supply	12 VDC / PoE+ (802.3at)
Power Consumption	Less than 18.7W (illuminator + red and blue warning light + speaker + PTZ working + glass defogging)
Operating Temperature	-30 ℃ to 60 ℃ (-22 °F to 140 °F)
Operating Humidity	≤ 95% RH (Non-condensing)
Ingress Protection	IP66
Certifications	CE-EMC: EN 55032, EN IEC 61000-6-3, EN IEC 61000-3-2, EN 61000-3-3, EN 55035, EN 50130-4 CE-LVD: EN IEC 62368-1 FCC: 47 CFR Part 15, Subpart B
Material	Aluminum Alloy (Front Cover), PC (Housing)
Dimensions	174.4 × 138.8 × 270.9 mm (6.87 × 5.46 × 10.67 inch) (Wall Mount, Excluding Antennas)
Net Weight	Approx. 1.28 Kg (2.82 lb)
DORI Distance (EN 62676-4 standard)	
Detect	70–205 m (229.7–672.6 ft)
Observe	28–82 m (91.9–269.0 ft)
Recognize	14–41 m (45.9–134.5 ft)
Identify	7–20.5 m (23.0–67.3 ft)

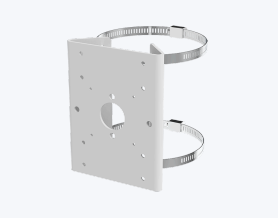
Dimensions (mm)



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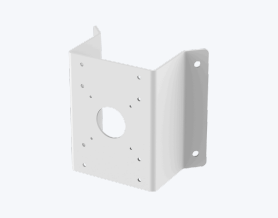
Accessories

Optional:



SN-CBK101

Pole Mount Bracket



SN-CBK102

Corner Mount Bracket

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