

SN-IPV8146HDBR-Z

4MP IR Varifocal Turret Network Camera



Key Features

- 1/3" progressive scan CMOS, up to 4MP (2560 × 1440) @ 25 fps
- Supports face, human, and vehicle detection.
- Intelligent analytics: Intrusion, smart motion detection, and line crossing
- DWDR, 3D DNR, ROI, HLC, BLC, Defog
- Smart IR distance up to 40 m
- Built-in microphone and microSD card slot (up to 1 TB)
- IP67-rated housing

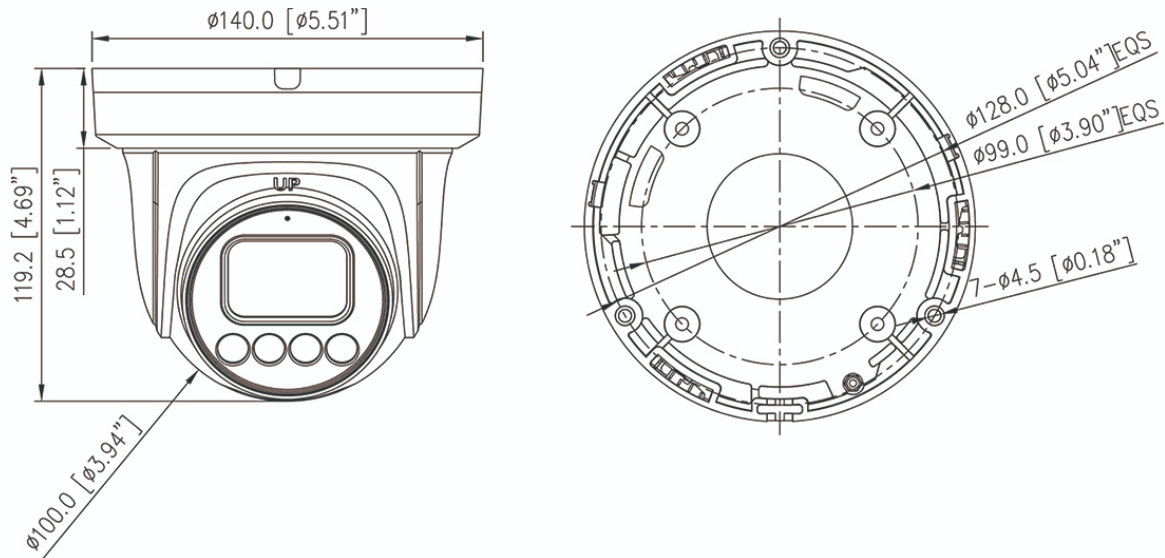
Specifications

Camera	
Image Sensor	1/3" Progressive Scan CMOS
Max Resolution	4MP, 2560(H) × 1440(V)
Shutter Speed	1/5 to 1/20,000s
Min Illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0.005 Lux @ (F1.6, AGC ON), 0 Lux with IR on
Day & Night	Auto (ICR)
Angle Adjustment	Pan: 0° to 360°, Tilt: 0° to 80°, Rotation: 0° to 360°
Lens	
Lens Type	Varifocal lens, motorized focal
Focal Length	2.7 to 13.5 mm
Max. Aperture	F1.6
Field of View (FOV)	H: 91.0° to 29.5°, V: 49.0° to 16.5°
Iris	Fixed Iris
Illuminator	
Type	IR
IR wavelength	850 nm
Distance	Up to 40 m (131.2 ft)
Control	Auto / Manual
Intelligent Analytics	
AI Multi-Target Detection	Supports face, human, and vehicle detection
Intelligent Analysis	Intrusion, smart motion detection, line crossing - Supports alarm triggering based on specified target types (human/vehicle)
Video & Audio	
Number of Streams	3 Streams
Resolution	Stream 1: 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 fps
Bit Rate Control	CBR/VBR
Bit Rate	Stream 1: 100 Kbps to 6 Mbps Stream 2: 100 Kbps to 6 Mbps Stream 3: 100 Kbps to 3 Mbps
Smart Encoding	Supported

Region of Interest (ROI)	Up to 8 zones
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, Corridor mode
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
Wide Dynamic Range	DWDR
Privacy Masking	Up to 4 configurable zones
Event	
Alarm Triggers	IVS, Motion detection, Disk alarm, Network alarm, Day/Night switch alarm, Abnormal sound detection
Event Actions	Alarm record, FTP upload, Email notification
Network	
Protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTP/RTCP, 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
Security	
OS / Firmware Protect	Encrypted firmware, 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
Supply Chain Security	SBOM
Interface	
Network Interface	1 $\times$ RJ45 10/100 Mbps Ethernet port
Built-in Microphone	Supported

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
Power Supply	12 VDC (-15% to +25%)/PoE (802.3af)
Power Consumption	Typical: 1.9 W (IR off, 12 VDC) / approx. 2.4 W (PoE) Max: 6.1 W (IR on, 12 VDC) / approx. 7.6 W (PoE)
Operating Temperature	-30 °C to 60 °C (-22 °F to 140 °F)
Operating Humidity	< 95% RH, non-condensing
Ingress Protection	IP67 (housing)
Certifications	CE-EMC: EN 55032, EN IEC 61000-6-4, EN IEC 61000-6-2, EN 55035, EN 50130-4 FCC 47 CFR Part 15 Subpart B
Material	Aluminum alloy housing; PC components
Dimensions	φ140 × 119.2 mm (5.51 × 4.69 inch)
Net Weight	Approx. 860 g (1.9 lb)
DORI Distance (EN 62676-4 standard)	
Detect	72 to 204 m (236.2 to 669.3 ft)
Observe	28.8 to 81.6 m (94.5 to 267.7 ft)
Recognize	14.4 to 40.8 m (47.2 to 133.9 ft)
Identify	7.2 to 20.4 m (23.6 to 66.9 ft)

Dimensions (mm)



Accessories

Optional:



SN-CBK645G
Junction Box



SN-CBK206
Pendant Cap



SN-CBK402
Ceiling Mount



SN-CBK501
Wall Mount



SN-CBK502
Wall Mount



SN-CBK101
Pole Mount



SN-CBK102
Corner Mount