

# SN-IPV8146HDBS-Z

4MP Smart Dual Illumination Turret Network Camera



## Key Features

- 1/3" progressive scan CMOS
- Max. 4MP(2560 × 1440) @25fps resolution
- Supports face, human, and vehicle detection.
- Intelligent analytics: Intrusion, smart motion detection, and line crossing
- DWDR, 3D DNR, ROI, HLC, BLC, Defog
- Built-in microphone and SD card slot, up to 1TB microSD card
- Built-in IR and warm LEDs, illumination distance up to 40m
- 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 illuminator on
Day & Night	Auto (ICR)
Angle Adjustment	Pan: 0° to 355°, 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, Warm light
IR wavelength	850 nm
Distance	IR distance up to 40 m (131.2 ft) Warm light distance up to 30 m (98.4 ft)
Control	IR mode, White mode, Intelligent mode, None
Intelligent Analytics	
AI Multi-Target	Supports face, human, and vehicle detection
Intelligent Analysis	Intrusion, smart motion detection, line crossing - Supports accurate target classification (human/vehicle)
Video & Audio	
Number of Streams	3 Streams
Resolution	Stream1: 2560×1440, 2304×1296, 1920×1080, 1280×720 Stream2: D1, VGA, 640×360, CIF, QVGA Stream3: VGA, CIF, QVGA
Frame Rate	Up to 25fps
Bit Rate Control	CBR/VBR
Bit Rate	Stream1: 100 Kbps to 6 Mbps Stream2: 100 Kbps to 6 Mbps Stream3: 100 Kbps to 3 Mbps

Smart Encoding	Supported
Region of Interest (ROI)	8 areas, rectangle zones
Audio Compression	G.711 A-law, G.711 $\mu$ -law, RAW_PCM
Audio Bit Rate	64 Kbps (G.711), 128 Kbps (RAW_PCM)
<b>Image</b>	
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, Night, Timer
Noise Reduction	2D/3D DNR
Image Enhancement	HLC, BLC, Defog, WDR
Wide Dynamic Range	DWDR
Privacy Masking	4 areas
<b>Event</b>	
Alarm Triggers	IVS, Motion detection, Disk alarm, Network alarm, Day/Night switch alarm, Abnormal sound detection
Event Actions	Alarm record, FTP upload, SMTP upload, White light alarm output
<b>Network</b>	
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 levels: Administrator, Operator, Media user
Web Viewer	<IE11, Chrome, Firefox, Microsoft Edge
<b>Security</b>	
OS / Firmware Protect	Encrypted firmware, Secure boot, Signed firmware
User Authentication	Digest authentication, Prevent brute-force attack
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 / Event Log management
Supply Chain Security	SBOM
<b>Interface</b>	
Network Interface	1 $\times$ Ethernet (10/100 Base-T), RJ-45 connector

Built-in Microphone	Supported
SD Card Slot	Built-in microSD card slot, up to 1 TB
Reset Button	Supported
<b>General</b>	
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: 6.4 W (IR on, 12 VDC) / approx. 8.0 W (PoE)
Operating Temperature	-30°C to 60°C (-22°F to 140°F)
Operating Humidity	Less than 95% RH
Ingress Protection	IP67 (housing)
Certifications	CE-EMC - EN 55032, EN IEC 61000-6-4, EN IEC 61000-3-2, EN 61000-3-3, EN 55035, EN 50130-4 FCC 47 CFR Part 15 Subpart B
Material	Aluminum alloy body, Decoration ring: plastic
Dimensions	φ140 × 119.2 mm (5.51 × 4.69 inch)
Net Weight	Approx. 860 g (1.9 lb)
<b>DORI Distance (EN62676-4 standard)</b>	
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



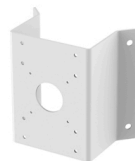
SN-CBK501  
Wall Mount



SN-CBK502  
Wall Mount



SN-CBK101  
Pole Mount



SN-CBK102  
Corner Mount