

# SN-IPV8190HCBR-B

12MP IR Fixed Turret Network Camera



## Key Features

- 1/2.5" progressive scan CMOS
- Max. 12MP(4512 × 2512) @20fps resolution
- Supports face, human, and vehicle detection & capture.
- Intelligent analytics: Intrusion, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, illegal parking, area people limit, perimeter detection, and people counting.
- True WDR(120dB), 3D DNR, ROI, HLC, BLC, Defog
- Built-in microphone and SD card slot, up to 1TB microSD card
- Smart IR distance up to 30m
- IP67-rated housing

## Specifications

Camera	
Image Sensor	1/2.5" Progressive Scan CMOS
Max Resolution	12MP, 4512(H) × 2512(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	Fixed lens, fixed focal
Focal Length	2.8 mm
Max. Aperture	F1.6
Field of View (FOV)	H: 102.9°, V: 52.1°
Iris	Fixed Iris
Illuminator	
Type	IR
IR wavelength	850 nm
Distance	Up to 30 m (98.4 ft)
Control	Auto/Manual
Intelligent Analytics	
AI Multi-Target	- Supports face, human, and vehicle detection & capture. - Supports multiple frame modes: Full Frame, Four-Corner Frame, and Mosaic.
Intelligent Analysis	Intrusion, smart motion detection, single line crossing, double line crossing, loitering, wrong-way detection, illegal parking, area people limit, and perimeter detection. - Supports accurate target classification (human/vehicle)
People Counting	Supported
Video & Audio	
Number of Streams	3 Streams
Resolution	Stream1: 4512×2512, 3840×2160, 2592×1944, 2592×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 Stream2: D1, VGA, CIF Stream3: VGA, CIF, QVGA
Frame Rate	Up to 20fps
Bit Rate Control	CBR/VBR

Bit Rate	Stream1: 200 Kbps to 20 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	True WDR (120dB)
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, Snapshot
<b>Network</b>	
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 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
Secure Storage	SDcard partition encrypt(AES-256), Secure element

Supply Chain Security	SBOM
<b>Interface</b>	
Network Interface	1 × 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: 3.5 W (IR off, 12 VDC) / approx. 4.4 W (PoE) Max: 8.65 W (IR on, 12 VDC) / approx. 10.8 W (PoE)
Operating Temperature	-35°C to 55°C (-31°F to 131°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: ABS
Dimensions	φ118.2 × 93.9 mm (φ4.65 × 3.7 inch)
Net Weight	Approx. 0.5 kg (1.1 lb)
<b>DORI Distance (EN62676-4 standard)</b>	
Detect	107 m (351.1 ft)
Observe	42.8 m (140.4 ft)
Recognize	21.4 m (70.2 ft)
Identify	10.7 m (35.1 ft)

## Dimensions (mm)



## Accessories

### Optional:



SN-CBK646M  
Junction Box



SN-BK382A  
Wall Mount



SN-CBK203  
Pendant Cap



SN-CBK402  
Ceiling Mount



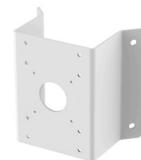
SN-CBK501  
Wall Mount



SN-CBK502  
Wall Mount



SN-CBK101  
Pole Mount



SN-CBK102  
Corner Mount