

SN-IPC8045HAN-FT

4MP ANPR Box Network Camera



Key Features

- 1/2.8" STARVIS™ CMOS, up to 4MP (2592 × 1520) @ 50/60 fps
- Supports license plate recognition and vehicle attribute analysis
- License plate recognition up to 60 km/h
- Supports up to 5,000 whitelist/blacklist entries
- True WDR (120dB), 3D DNR, ROI, Defog, HLC
- Built-in microphone, 1/1 audio I/O, and 1/1 alarm I/O
- Built-in microSD card slot (up to 1 TB)
- Support auto back focus (ABF)
- Supports 12 VDC / 24 VAC / PoE power supply

Specifications

Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Max Resolution	4 MP (2592 × 1520)
Shutter Speed	1/5 to 1/100,000s
Min Illumination	Color: 0.03 Lux @ (F1.6, AGC ON), B/W: 0.008 @ (F1.6, AGC ON)
Day & Night	Auto (ICR)
S/N Ratio	55 dB
Lens	
Lens Type	C/CS mount
Iris	Fixed Iris, Auto Iris
Road Traffic and Vehicle Detection	
Smart Function	License plate recognition (LPR); Vehicle attribute analysis (type, color, direction)
Vehicle Type	Car, SUV, Van, Minivan, Pickup, Bus, Truck, MPV, Sports Car
Vehicle Color	Blue, Yellow, Black, White, Green, Red, Gray, Brown, Gold, Orange
Vehicle Direction	Front-facing, Rear-facing
Vehicle Speed	Up to 60 km/h
LPR Region Support	Default Support: Australia, Chile, Indonesia, Malaysia, Oman, Saudi Arabia, South Africa Optional (Customized): Other countries/regions upon request
White/Black List	Up to 5,000 records
LPR Smart Search	Supported
Intelligent Analytics	
Intelligent Analysis	Intrusion, smart motion detection, single-line crossing, double-line crossing, wrong-way detection, and illegal parking - Supports alarm triggering based on specified target type (vehicle)
Video & Audio	
Number of Streams	3 Streams
Resolution	Stream1: 2592 × 1520, 2560 × 1440, 2304 × 1296, 1920 × 1080, 1280 × 720 Stream2: D1, VGA, 640 × 360, CIF, QVGA Stream3: VGA, CIF, QVGA
Frame Rate	Up to 50/60 fps
Bit Rate Control	CBR/VBR
Bit Rate	Stream1: 200 Kbps to 12 Mbps Stream2: 100 Kbps to 6 Mbps Stream3: 100 Kbps to 3 Mbps

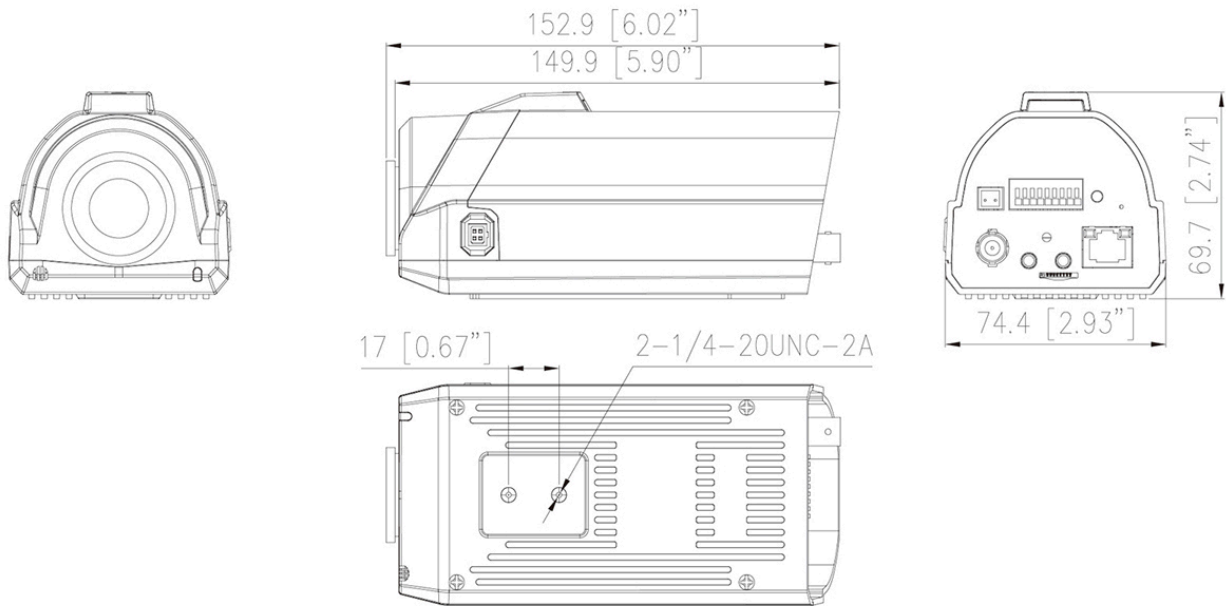
Smart Encoding	Supported
Region of Interest (ROI)	Up to 8 zones
Audio Compression	G.711 A-law, G.711 μ -law, RAW_PCM
Audio Bit Rate	64 Kbps (G.711), 128 Kbps (RAW_PCM)
Image	
Image Adjustment	Brightness, Sharpness, Contrast, Saturation
Scene Mode	Indoor, Outdoor, Mirror, Corridor mode
Exposure Mode	Auto, 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	WDR, HLC, BLC, Defog
Wide Dynamic Range	True WDR (120 dB)
Privacy Masking	Up to 4 configurable zones
Event	
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, Audible alarm output
Network	
Protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPoE, RTSP/ RTPC/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, 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
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
Audio Interface	1 input (3.5 mm), 1 output (3.5 mm)
Alarm Interface	1 input, 1 output
RS-485	1 × RS-485
CVBS Output	1 × BNC
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 / 24 VAC (-10% to +25%) / PoE (802.3af)
Power Consumption	Max 3 W
Operating Temperature	-30 °C to 50 °C (-22 °F to 122 °F)
Operating Humidity	< 90% RH, non-condensing
Ingress Protection	N/A
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
Dimensions	152.9 × 74.4 × 69.7 mm (6.02 × 2.93 × 2.74 inch)
Net Weight	Approx. 0.4 kg (0.88 lb)

Dimensions (mm)



Accessories

Optional:



SN-CH515HF
Outdoor Housing



SN-BK385
Wall Mount Bracket



SN-MTG2812
5MP 1-2.7" CS-Mount Varifocal
Lens



SN-MTG1250
5MP 1-1.7" CS-Mount Varifocal
Lens