WatchAI
Smarter Security. Safer Homes.

8CH 1HDD NVR with 8CH PoE

8CH 1HDD 8CH PoE 8K NVR

Key Features

- Up to 8-ch IP cameras access

- Up to 40 Mbps incoming/outgoing bandwidth

- Up to 1-ch @ 8MP/4-ch @ 1080P/8-ch @ D1 decoding capacity

- 1 SATA hard disk up to 8TB

- Plug & Play with 8 PoE Ports

- Supports 1 HDMI and 1 VGA interface, maximum resolution of HDMI is 4K
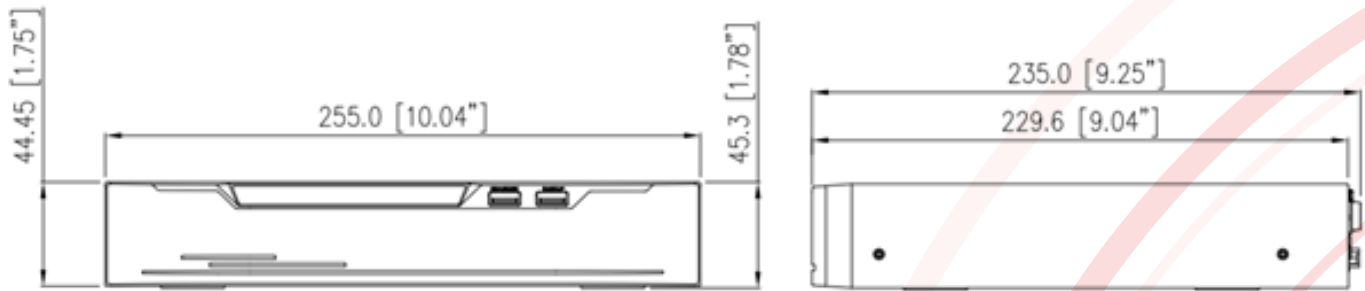
NDAA
COMPLIANCE

TAA
COMPLIANT

Specifications

Video Input	
IP Camera Input	8 Channel
Incoming Bandwidth	40 Mbps
Outgoing Bandwidth	40 Mbps

Video Output	
HDMI Output	3840 × 2160, 1920 × 1080, 1280 × 1024, 1024 × 768
VGA Output	1920 × 1080, 1280 × 1024, 1024 × 768
Decoding Capacity	1ch 8MP, 4ch 1080P, 8ch D1
Dual Stream	Support
Multi-screen Display	1/4/9

Recoding	
Resolution	8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 720P, D1 etc.
Recording Mode	Manual, Schedule (Regular, Continuous), Event
Trigger Events	Motion Detection, Video Loss, IVS

Playback and Backup	
Sync Playback	8/4/1
Search Mode	Time /Date, Alarm, Picture grid, Event
Backup Mode	USB Device, Network

Alarm	
General Alarm	Motion Detection, Video Loss
Intelligent Analysis (By Camera)	Smoking Detection, Smoke and Fire Detection, Fire Spot Detection, Intrusion, Single Line Crossing, Double Line Crossing, Loitering, Wrong-way, Illegal Parking, People Counting, Smart motion detection, Enter Area, Leave Area, etc.
Abnormal Alarm	Disk Alarm, IP Address Conflict, Network Disconnect

Network	
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, UDP, RTSP, SMTP, NTP, DNS, DHCP, P2P, IP Filter, DDNS, 802.1X, SNMP, 3G/4G, PPPoE
Remote Users	8 users
P2P	Support
Interoperability	ONVIF, SDK, CGI

Storage	

ANR	Support
Interface	
HDD Interface	1 SATA interfaces, up to 8TB capacity for each disk
Network Interface	1 × RJ-45, 10/100 Mbps self-adaptive Ethernet port
PoE Interface	8 ports, 10/100Mbps, 802.3af, max 48W
HDMI	1
VGA	1
Audio In/Out	1ch audio output
USB Interface	Front panel: 2 × USB 2.0, Rear panel: 1 × USB 2.0
General	
Power Supply	48VDC/1.25A
Power Consumption	< 15 W (without HDD)
Operating Conditions	-10 °C to 50 °C (14 °F to 122 °F)
Storage Conditions	Less than 90% RH
Certifications	CE/FCC, RCM
Dimensions	255 × 235.0 × 45.3 mm (10.04 × 9.25 × 1.78 inch)
Net Weight	1 kg (2.2 lb) without HDD

Dimensions (mm)

44.45 [1.75"]

255.0 [10.04"]

45.3 [1.78"]

235.0 [9.25"]

229.6 [9.04"]

Rear Panel

POE PORTS

1 3 5 7

2 4 6 8

LAN

OUT

AUDIO

VGA

HDMI

USB

DC 48V

SN-IPV7182HNBC-B2.8

8MP Smart Dual Light Active Deterrence Turret Network Camera

Key Features

- 1/2.7" progressive scan CMOS

- Max. 8MP(3840×2160) @25fps resolution

- True WDR, 3D DNR, ROI, HLC, BLC, Defog

- Support face, human, vehicle detection

- Intelligent analytics: intrusion, single line crossing, double line crossing, loitering, wrong-way, illegal parking, smart motion detection, and people counting

- Built-in red and blue warning light, support sound-light warning

- Built-in IR LED and warm lights, illumination distance up to 30 m

- Built-in mic and speaker

- Built-in micro SD card slot (up to 1 TB)
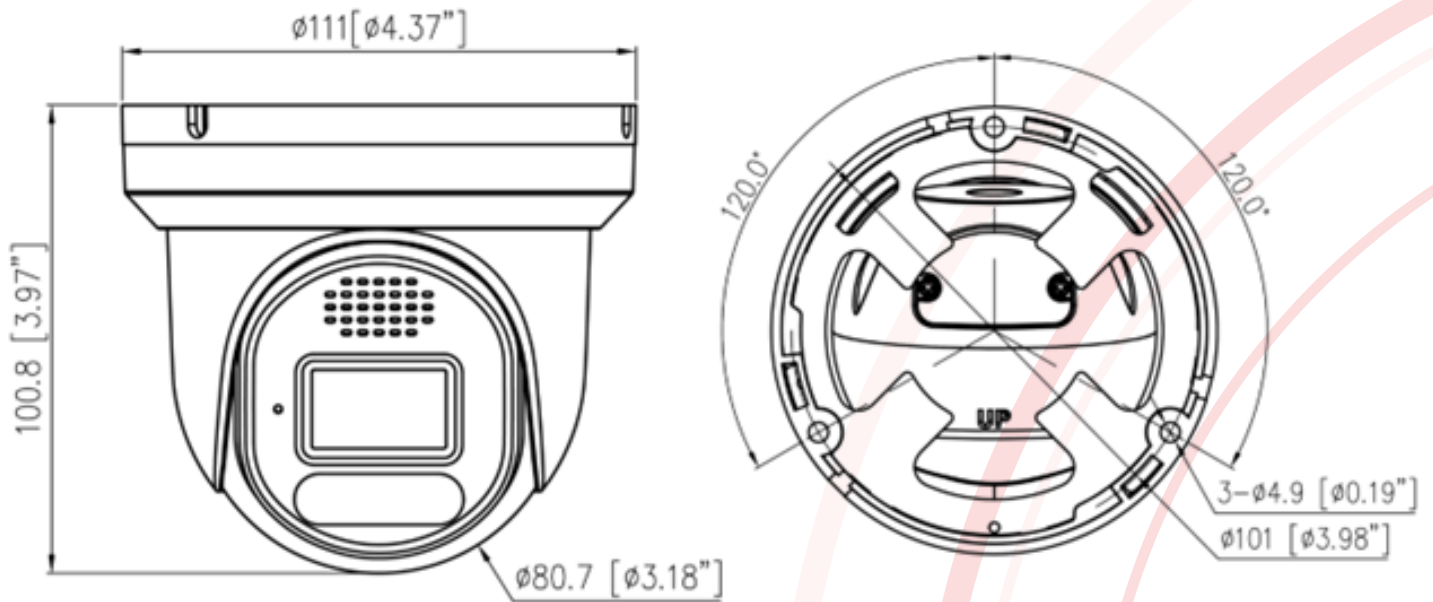
- IP66 protection

Specifications

Camera	
Image Sensor	1/2.7" Progressive Scan CMOS
Max. Resolution	8MP, 3840(H) × 2160(V)
Electronic Shutter	Auto/Manual, 1/5 to 1/20,000s
Min. illumination	Color: 0.01 Lux @ (F1.6, AGC ON), B/W: 0 Lux with Light on
Day & Night	IR cut filter
Wide Dynamic Range	True WDR
Angle Adjustment	Pan: 0˚ to 355˚, Tilt: 0˚ to 80˚, Rotation: 0˚ to 360˚

Lens	
Lens Type	Fixed focus
Iris	Fixed Iris
Focal Length	2.8 mm, 4 mm
Max. Aperture	F1.6
Field of View (FOV)	2.8 mm - H: 110.9°, V: 60° 4 mm - H: 91.8°, V: 46.3°

Illuminator	
Illuminator Type	IR, Warm light
Illumination Distance	IR distance up to 30 m (98.4 ft) Warm light distance up to 20 m (65.6 ft)
Illumination On/Off Control	Auto/Manual
IR Wavelength	850 nm

Intelligent Analytics	
Multi-Object Detection	Supports face, human, vehicle detection
Intelligent Analysis	Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Illegal parking, and Smart motion detection Support alarm triggering by specified target types (human and vehicle)
People Counting	Support

Video and Audio	
Streaming Capability	3 Streams
Stream/Frame Rate	Stream1: 3840×2160, 2880×1620, 2592×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 @25fps Stream2: D1, VGA, CIF @ 25fps Stream3: VGA, CIF, QVGA @ 25fps

SN-IPV7182HNBC-B - 8MP Smart Dual Light Active Deterrence - Turret Network Camera

Bit Rate Control	CBR/VBR
Bit Rate	Stream1: 200 kbps to 16 Mbps Stream2: 100 kbps to 6 Mbps Stream3: 100 kbps to 3 Mbps
Region of Interest	Off/On (8 areas, Rectangle)
Smart Encode	Support
Audio Compression	G.711 A-law, G.711 µ-law, RAM PCM
Audio Bit Rate	64 Kbps (G.711), 128 Kbps (RAW_PCM)

Image	
Image Adjustment	Brightness, Sharpness, Contrast, Saturation adjustable
Scene Setting	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	WDR, HLC, BLC, Defog
Privacy Masking	4 areas

Event	
Alarm Triggers	IVS, Motion detection, Network alarm, Disk alarm, Day/Night switch alarm, Abnormal sound detection
Event Actions	Alarm record, FTP upload, SMTP upload, Audible alarm output, White light alarm output, Red and blue light alarm

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
Interoperability	ONVIF (Profile S/T/G/M), SDK, CGI
Max Concurrent Streams	10 channels
User/Host Level	32+ users, 3 user levels: Administrator, Operator, Media user
Security	IP address filter, HTTPS, Illegal login lock, IEEE 802.1x
Web Viewer	<IE11, Chrome, Firefox, Microsoft Edge

Interface	
Network Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector
Built-in Microphone	Support
Built-in Speaker	Support

SD Card Slot	Built-in, up to 1 TB
Reset Button	Support
General	
Language	English, 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: 2.2 W (12VDC); approx. 2.8 W (PoE) Max (with IR or Warm Light + Speaker + Red/Blue Lights on): 10 W (12 VDC); approx. 12.5 W (PoE)
Operating Temperature	-30°C to 60°C (-22°F to 140°F)
Operating Humidity	Less than 90% RH
Ingress Protection	IP66
Certifications	CE-EMC (EN 55032:2015+A1:2020, EN IEC 61000-6-3:2021, EN IEC 61000-3-2:2019+A1:2021, EN 61000-3-3:2013+A2:2021, EN 55035:2017+A11:2020, EN 50130-4:2011+A1:2014) FCC (FCC 47 CFR 15, Subpart B, ANSI C63.4-2014), RCM
Material	Aluminum alloy body, Decoration ring: ABS
Dimensions	φ111 × 100.8 mm (φ4.37 × 3.97 inch)
Net Weight	0.43 kg (0.95 lb)

Dimensions (mm)

Ø111 [Ø4.37"]

100.8 [3.97"]

Ø80.7 [Ø3.18"]

120.0° 120.0°

3−Ø4.9 [Ø0.19"]

Ø101 [Ø3.98"]

UP

Optional Accessories

SN-CBK646M
Junction Box

SN-CBK203
Pendant Cap

SN-CBK402
Pendant Mount

SN-CBK501
Wall Mount

SN-CBK502
Wall Mount

SN-CBK101
Pole Mount

SN-CBK102
Corner Mount

info@watchai.com.au   watchai.com.au