

# 8HDD 80ch AI NVR

CS-N880 H-AI

**Intelligent Series**



## KEY FEATURES

- Up to 80-ch IP camera accesses
- Incoming/Outgoing bandwidth: 400Mbps(AI on: 320Mbps)/400Mbps(AI on: 200Mbps)
- S+265, H.265, S+264, H.264 video formats
- Max. decoding capability: 16MP(30fps)×3 or 1080P(30fps)×28
- Up to 16 channels-ch synchronous playback
- Up to 24 TB capacity for each HDD
- Simultaneous HDMI1 and VGA1 outputs; Simultaneous HDMI2 and VGA2 outputs
- HDMI output at up to 4K resolution
- 2×RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port
- S+ 265 compression effectively reduces the storage space by up to 75%
- Support cloud upgrade



Email: [sales@canadasecurity.com](mailto:sales@canadasecurity.com)  
Website: [canadasecurity.com](http://canadasecurity.com)

US : +1 301 900 1000  
CA : +1 289 800 9000

## SPECIFICATIONS

| Video and Audio              |                                                                                                                                                                                                                                                                                                           |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Access Channel               | 80                                                                                                                                                                                                                                                                                                        |
| Incoming Bandwidth           | 400Mbps(AI on: 320Mbps)                                                                                                                                                                                                                                                                                   |
| Outgoing Bandwidth           | 400Mbps(AI on: 200Mbps)                                                                                                                                                                                                                                                                                   |
| Resolution                   | 16MP/12MP/8MP/6MP/5MP/4MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF/2CIF/CIF/QCIF                                                                                                                                                                                                                                 |
| Preview Decoding Capability  | 16MP(30fps)×3, 12MP(30fps)×4, 8MP(30fps)×7, 6MP(30fps)×9, 5MP(30fps)×11, 4MP(30fps)×14, 3MP(30fps)×18, 1080P(30fps)×28, 720P(30fps)×56, 4CIF(30fps)×80<br>(AI on : 16MP(30fps)×2, 12MP(30fps)×3, 8MP(30fps)×5, 6MP(30fps)×6, 5MP(30fps)×8, 4MP(30fps)×10, 3MP(30fps)×13, 1080P(30fps)×20, 720P(30fps)×40) |
| Playback Decoding Capability | 16MP(30fps)×3, 12MP(30fps)×4, 8MP(30fps)×7, 6MP(30fps)×9, 5MP(30fps)×11, 4MP(30fps)×14, 3MP(30fps)×16, 1080P(30fps)×16, 720P(30fps)×16, 4CIF(30fps)×16<br>(AI on : 16MP(30fps)×2, 12MP(30fps)×3, 8MP(30fps)×5, 6MP(30fps)×6, 5MP(30fps)×8, 4MP(30fps)×10, 3MP(30fps)×13, 1080P(30fps)×16, 720P(30fps)×16) |
| Third-party Camera Access    | ONVIF(Profile S/T); RTSP                                                                                                                                                                                                                                                                                  |
| HDMI Output                  | HDMI: 800×600(60Hz), 1024×768(60Hz), 1280×720(50Hz/60Hz), 1280×800(60Hz), 1366×768(60Hz), 1440×900(60Hz), 1920×1080(50Hz/60Hz), 2560×1440(30Hz/60Hz), 2560×1600(60Hz), (4K)3840×2160(30Hz/60Hz)                                                                                                           |
| VGA Output                   | VGA: 800×600(60Hz), 1024×768(60Hz), 1280×720(50Hz/60Hz), 1280×800(60Hz), 1366×768(60Hz), 1440×900(60Hz), 1920×1080(50Hz/60Hz)                                                                                                                                                                             |
| Multi-screen Display         | Independent Output:<br>HDMI1/VGA1: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25/32/36/40/64/80<br>HDMI2/VGA2: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25/32/36/40/64/80                                                                                                                                         |
| Audio Input                  | 1-ch, 3.5mm                                                                                                                                                                                                                                                                                               |
| Audio Output                 | 1-ch, 3.5mm; BNC                                                                                                                                                                                                                                                                                          |
| Two-Way Audio                | 1-ch, 3.5mm, using the audio input                                                                                                                                                                                                                                                                        |
| Compression Standard         |                                                                                                                                                                                                                                                                                                           |
| Video                        | S+265; H.265; S+264; H.264                                                                                                                                                                                                                                                                                |
| Audio                        | G711A; G711U; AAC; ADPCM_DIV4                                                                                                                                                                                                                                                                             |
| Stream Type                  | Video; Video & Audio                                                                                                                                                                                                                                                                                      |
| Network                      |                                                                                                                                                                                                                                                                                                           |
| Network Protocol             | 802.1X; ARP; DDNS; DHCP; DNS; Easy DDNS; FTP; HTTP; HTTPS; ICMP; IGMP; IPv4; IPv6; Multicast; NFS; NTP; PPPoE; QoS; RTCP; RTP; RTSP; SMB/CIFS; SMTP; SNMP v1/v2/v3; SRTP; SSH; SSL; TLSv1.2; TCP; UDP; Unicast; UPnP                                                                                      |
| Mobile Phone Access          | Android; iOS; P2P                                                                                                                                                                                                                                                                                         |
| System Compatibility         | ONVIF(Profile S/T/G); RTSP; CGI; SDK; P2P                                                                                                                                                                                                                                                                 |
| Browser                      | IE10+; Firefox52+; Edge89+; Safari11+; Chrome57+                                                                                                                                                                                                                                                          |
| Recording Playback           |                                                                                                                                                                                                                                                                                                           |
| Multi-channel Playback       | Up to 16 channels                                                                                                                                                                                                                                                                                         |
| Record Mode                  | Manual Recording; Alarm Recording; Schedule Recording                                                                                                                                                                                                                                                     |
| Storage Method               | Local HDD, eSATA                                                                                                                                                                                                                                                                                          |
| Backup                       | USB storage device, eSATA, Network                                                                                                                                                                                                                                                                        |

|                   |                                                                                                            |
|-------------------|------------------------------------------------------------------------------------------------------------|
| Playback Function | Play/Pause/Stop/Slow/Speed/Backwards 30s/Forwards 30s/Full Screen/Backup (Video Editing)/Step/Digital Zoom |
|-------------------|------------------------------------------------------------------------------------------------------------|

|                    |     |
|--------------------|-----|
| Dual Stream Record | Yes |
|--------------------|-----|

## Alarm

|               |                                                                  |
|---------------|------------------------------------------------------------------|
| General Alarm | Motion Detection; Mask Alarm; Alarm Input(IPC); Alarm Input(NVR) |
|---------------|------------------------------------------------------------------|

|                  |                                                                                                                                                                                                                                                                                                                       |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exceptions Alarm | Video Loss; Network Disconnected; No Disk; Illegal Access; Disk group space alert; Disk Full; Disk R/W Error; Recording Abnormal; Abnormal found in smart of disk; Abnormal temperature of the disk; Hot-spare Exception; Array Exception; Voltage Alarm(IPC); RTC Failure; IP Address Conflict; MAC Address Conflict |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Intelligent Analytics

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AI by Camera | Tripwire; Double Tripwire; Perimeter; Object Abandon; Object Missing; Running; Parking; Heatmap; Loitering; Video Abnormal; Audio Abnormal; License Plate Recognition; On Duty Detection; Crowd Detection; Parking Guard; Safety Helmet Detection; Electric Bicycle Detection; People Counting; Link to Tracking; Smoke and Fire Detection; Environmental Temperature Measurement; Face Detection; Human Body Temperature Measurement; Smart Alarm; Face Recognition; Human/Vehicle Classification |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|           |                                                                                                                                                                                                                                                                          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AI by NVR | Face Detection; Face Recognition; Video Structuralization(excludes vehicle detection); Tripwire; Double Tripwire; Perimeter; Object Abandon; Object Missing; Running; Parking; Heatmap; Sleeping on Duty Detection; On Duty Detection; Smart Motion Detection; Loitering |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|            |                                                                                                                                                                           |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VCA Search | Heatmap; Early-warning Search; Behavior Search; License Plate Search; Safety Helmet Search; Thermographic Retrieval; Duty Search; Electric Bicycle Retrieval; Face Search |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Face Detection

|                 |                                             |
|-----------------|---------------------------------------------|
| Face Attributes | Gender; Age; Glasses; Face Mask; Body Temp. |
|-----------------|---------------------------------------------|

## Face Recognition

|                              |                                         |
|------------------------------|-----------------------------------------|
| Face Recognition Performance | 8-ch video streams; 32-ch image streams |
|------------------------------|-----------------------------------------|

|                      |                                                     |
|----------------------|-----------------------------------------------------|
| Face Picture Library | Up to 20 face libraries<br>Up to 100000 base images |
|----------------------|-----------------------------------------------------|

|                         |     |
|-------------------------|-----|
| Face Picture Comparison | Yes |
|-------------------------|-----|

## AI Performance(AI by NVR)

|                                     |             |
|-------------------------------------|-------------|
| Video Structuralization Performance | 8-ch(1080P) |
|-------------------------------------|-------------|

|                                |       |
|--------------------------------|-------|
| Perimeter/Tripwire Performance | 24-ch |
|--------------------------------|-------|

|                                    |             |
|------------------------------------|-------------|
| Object Abandon/Missing Performance | 8-ch(1080P) |
|------------------------------------|-------------|

|                                      |             |
|--------------------------------------|-------------|
| Sleeping on Duty/On Duty Performance | 8-ch(1080P) |
|--------------------------------------|-------------|

|                               |             |
|-------------------------------|-------------|
| Loitering/Running Performance | 8-ch(1080P) |
|-------------------------------|-------------|

|                     |             |
|---------------------|-------------|
| Parking Performance | 8-ch(1080P) |
|---------------------|-------------|

|                     |             |
|---------------------|-------------|
| Heatmap Performance | 8-ch(1080P) |
|---------------------|-------------|

|                                  |       |
|----------------------------------|-------|
| Smart Motion Dection Performance | 32-ch |
|----------------------------------|-------|

## Storage

|              |                                   |
|--------------|-----------------------------------|
| HDD Capacity | Up to 24 TB capacity for each HDD |
|--------------|-----------------------------------|

|            |              |
|------------|--------------|
| Disk Group | 8 Disk Group |
|------------|--------------|

|      |                                                                                                                              |
|------|------------------------------------------------------------------------------------------------------------------------------|
| RAID | JBOD, RAID0, RAID1, RAID5, RAID6, RAID10 (To enable RAID, please use surveillance-grade AI disks or enterprise-class disks.) |
|------|------------------------------------------------------------------------------------------------------------------------------|

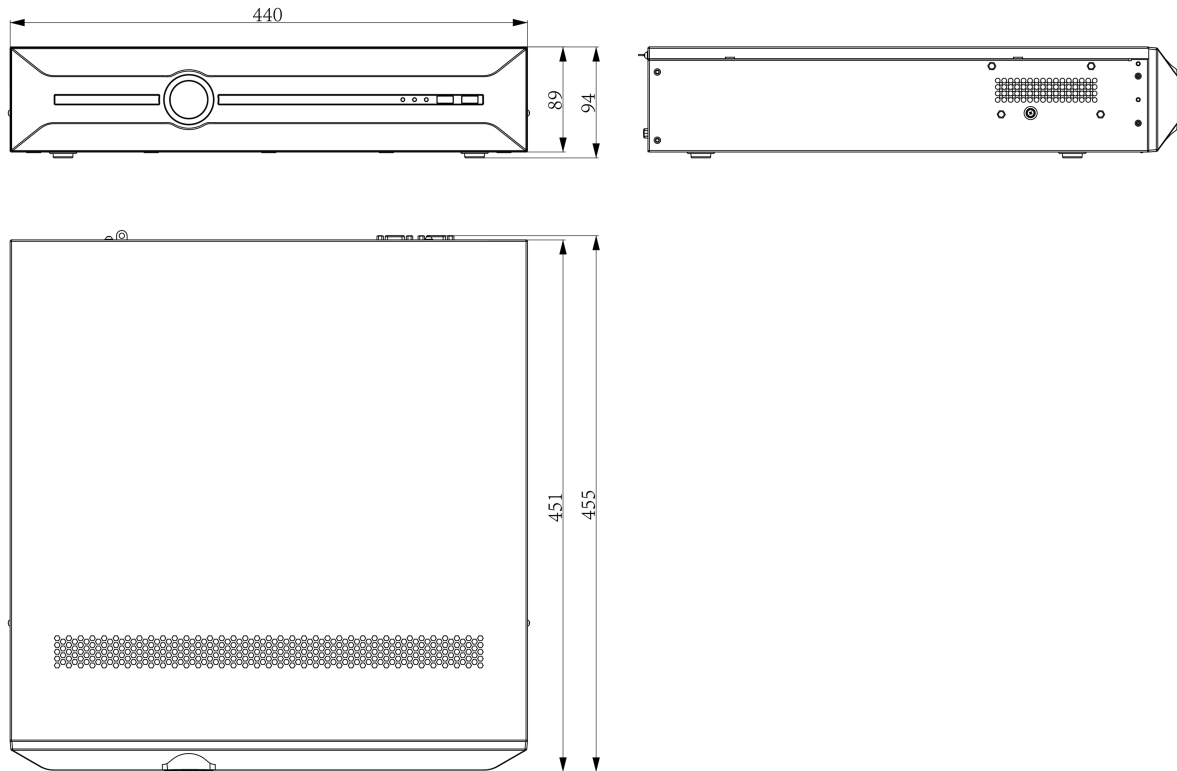
## External Port

|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| eSATA             | 1×eSATA                                                        |
| USB               | 2×USB2.0; 1×USB3.0                                             |
| HDMI              | 2×HDMI(supports up to 4K resolution output)                    |
| VGA               | 2×VGA                                                          |
| Network Interface | 2×RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port          |
| SATA              | 8×SATA interface                                               |
| RS232             | 1×RS232                                                        |
| RS485             | 2×RS485                                                        |
| Alarm I/O         | 16-ch, TTL inputs, 3mA, 3.3VDC; 4-ch, relay outputs, 1A, 24VDC |

## General

|                       |                                                                                                                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UI Language           | Simple Chinese; Traditional Chinese; English; Spanish; Korean; Italian; Turkish; Russian; Thai; French; Polish; Dutch; Hebrew; Arabic; Vietnamese; German; Ukrainian; Portuguese; Albanian; Indonesian; Greek |
| Power Supply          | 100~240V AC                                                                                                                                                                                                   |
| Power Consumption     | <18W(HDD not included, idling)                                                                                                                                                                                |
| NetWeight             | 6.2Kg                                                                                                                                                                                                         |
| GrossWeight           | 8.4Kg                                                                                                                                                                                                         |
| Boundary Dimensions   | 440(L)460(W)94(H)mm                                                                                                                                                                                           |
| Package Dimensions    | 565(L)565(W)220(H)mm                                                                                                                                                                                          |
| Operating Temperature | -10°C~+55°C (+14°F~+131°F)                                                                                                                                                                                    |
| Operating Humidity    | 10%~90%RH (non-condensing)                                                                                                                                                                                    |
| Storage Temperature   | -20°C~+60°C (-4°F~+140°F)                                                                                                                                                                                     |
| Package Kit           | Network Video Recorder×1; Screw Pack×1; Mouse×1; European Standard Power Cord×1; Ear Plate×2; SATA Hard Disk Data Cable×8; Instructions×1; Parts List×1                                                       |

## DIMENSIONS (Unit: mm)



## Physical Interfaces

