

# CS-N440 M-AI 4HDD 40ch AI NVR

Intelligent Series



## KEY FEATURES

- Up to 40-ch IP camera accesses
- Incoming/Outgoing bandwidth: 400Mbps(AI on: 200Mbps)/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 10 TB capacity for each HDD
- Independent HDMI and VGA 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



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## SPECIFICATIONS

Video and Audio	
Access Channel	40
Incoming Bandwidth	400Mbps(AI on: 200Mbps)
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)×40, 4CIF(30fps)×40 (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 (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: HDMI: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25/32/36/40 VGA: 1/2/3/4/5/6/7/8/9/10/12/13/16/20A/20B/25/32/36/40
Audio Input	1-ch, 3.5mm
Audio Output	1-ch, RCA (Linear, 1 KΩ)
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
Backup	USB storage device, Network

Playback Function	Play/Pause/Stop/Slow/Speed/Backwards 30s/Forwards 30s/Full Screen/Backup (Video Editing)/Step/Digital Zoom
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Dual Stream Record	Yes
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### Alarm

General Alarm	Motion Detection; Mask Alarm; Alarm Input(IPC); Alarm Input(NVR)
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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
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### 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
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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
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VCA Search	Heatmap; Early-warning Search; Behavior Search; License Plate Search; Safety Helmet Search; Thermographic Retrieval; Duty Search; Electric Bicycle Retrieval; Face Search
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### Face Detection

Face Attributes	Gender; Age; Glasses; Face Mask; Body Temp.
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### Face Recognition

Face Recognition Performance	8-ch video streams; 32-ch image streams
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Face Picture Library	Up to 20 face libraries Up to 100000 base images
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Face Picture Comparison	Yes
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### AI Performance(AI by NVR)

Video Structuralization Performance	8-ch(1080P)
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Perimeter/Tripwire Performance	24-ch
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Object Abandon/Missing Performance	8-ch(1080P)
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Sleeping on Duty/On Duty Performance	8-ch(1080P)
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Loitering/Running Performance	8-ch(1080P)
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Parking Performance	8-ch(1080P)
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Heatmap Performance	8-ch(1080P)
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Smart Motion Dection Performance	32-ch
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### Storage

HDD Capacity	Up to 10 TB capacity for each HDD
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Disk Group	4 Disk Group
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RAID	JBOD, RAID0, RAID1, RAID5, RAID6, RAID10 (To enable RAID, please use surveillance-grade AI disks or enterprise-class disks.)
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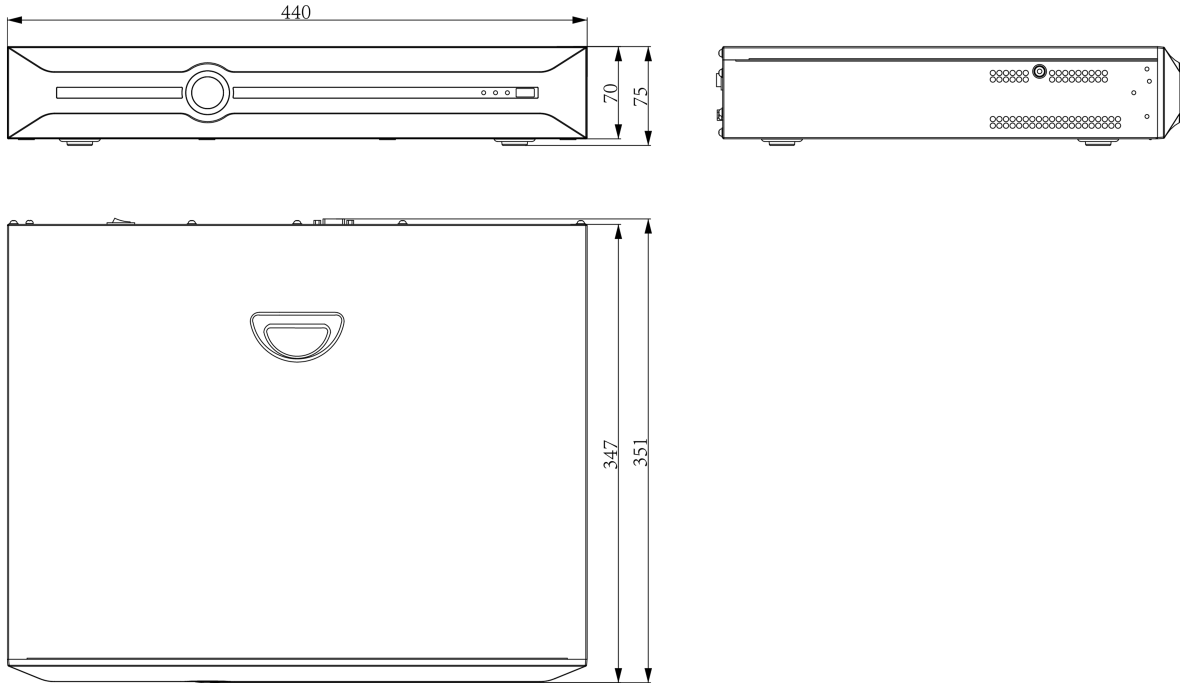
### External Port

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

### General

UI Language	English; Spanish; Korean; Italian; Turkish; Russian; Thai; French; Polish; Dutch; Hebrew; Arabic; Vietnamese; German; Ukrainian; Portuguese; Albanian; Indonesian; Greek
Power Supply	DC12V
Power Consumption	<15W(HDD not included, idling)
NetWeight	3.3Kg
GrossWeight	5.05Kg
Boundary Dimensions	440(L)347(W)75(H)mm
Package Dimensions	540(L)175(W)455(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; Power Adapter(DC12V 5A)×1; European Standard Power Cord×1; Ear Plate×2; SATA Hard Disk Data Cable×4; SATA Power Cord×2; Instructions×1; Parts List×1

**DIMENSIONS (Unit: mm)**



**Physical Interfaces**

