



AI Target Search	16 Coax + 16 IP	Intelligent Motion Detection	Face Recognition
Quickly locate people or vehicles, 8 analog channels	Up to 32 IP by converting analog inputs	Human and vehicle filtering, 16 analog channels	4 analog channels, 10 databases, 20,000 images

Analogue and IP on a Single Recorder

Sixteen coaxial inputs plus sixteen IP cameras at up to 8 MP, or up to thirty-two IP cameras by converting the analogue inputs. Existing coax cabling keeps working while IP cameras are added, and the 4K HDMI output drives the monitor.

FEATURES

- H.265+ and H.265 dual-stream compression, 4K HDMI and Full HD VGA outputs
- AI video quality analytics on 16 channels detects defocus and overexposure
- Face recognition on 4 analog channels, up to 10 databases with 20,000 images
- 16 BNC channels with HDCVI, AHD, TVI and CVBS auto-detection
- Two-way talk over coaxial cable on all 16 channels
- One SATA bay up to 16 TB, gigabit network port
- Perimeter protection on 8 analog channels, tripwire and intrusion, 10 rules each
- AI Target Search on 8 analog channels to quickly locate people and vehicles
- AI Coding on 16 channels saves storage and bandwidth while keeping target details
- Intelligent Motion Detection on 16 analog channels, or 32 channels by camera
- 16 IP channels at 8 MP, up to 32 by converting analog inputs
- EPTZ and privacy protection on 1 channel each

MT-NCXVR8116-4KAI

TECHNICAL SPECIFICATIONS

Intelligent	
AI Target Search	8 analog channels: quickly locate a specific person or vehicle in recorded video
Perimeter Protection	8 analog channels, 10 IVS rules each: tripwire and intrusion
Face Detection	4 channels (up to 12 face images/s each channel), 6 face attributes
Face Recognition	4 analog channels; up to 10 face databases with 20,000 images
Intelligent Motion Detection	16 analog channels by recorder: human/vehicle filtering, reduces false alarms caused by leaves, rain and lighting changes; 32 channels by camera
AI Video Quality Analytics	16 channels: brightness, color cast, defocus, overexposure, contrast, black and white
Privacy Protection	1 channel
EPTZ	1 channel
Scene Changing	1 channel
Irregular Black Block Masking	1 channel
Note	Unavailable with IP extension or Encode Enhancement enabled: AI Target Search, face detection and recognition, perimeter and privacy protection, EPTZ, video quality analytics, scene changing. Face recognition cannot run with recorder-based Intelligent Motion Detection or perimeter protection

Audio	
Audio Compression	G.711a; G.711u; PCM
Audio Sampling	8 kHz, 16 bit
Audio Bit Rate	64 kbps
Audio Input	1-channel RCA; 16-channel BNC (coaxial audio)
Audio Output	1-channel RCA
Two-way Talk	Coaxial two-way talk on 16-channel BNC; local and network user talk shares the first channel audio input

Network	
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Server; P2P; Auto Registration; IP Search
Interoperability	ONVIF; CGI; SDK
Management Software	MT Suite; MT App; CGI, compatible VMS
Mobile Phone Access	iOS; Android
Browser	Chrome; IE; Safari; Edge; Firefox

Structure	
Product Dimensions	Mini 1U, 325.0 mm x 257.1 mm x 55.0 mm (12.80" x 10.12" x 2.17") (W x D x H)
Packaging Dimensions	374.0 mm x 119.0 mm x 311.0 mm (14.72" x 4.68" x 12.24") (W x D x H)
Net Weight	1.39 kg (3.06 lb)
Gross Weight	2.06 kg (4.54 lb)
Installation	Desktop

Power and Environment	
Power Supply	12 VDC, 3 A
Power Consumption	< 15 W (without HDD)
Operating Temperature	-10 °C to +55 °C (+14 °F to +131 °F)
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Operating Humidity	10%-90% (RH), non-condensing

Video	
Analog Camera Input	16 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-detect
Camera Input	CVI: 4K@25/30 fps; 4K@12.5/15 fps; 6 MP@20 fps; 5 MP@20/25 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30/50/60 fps. TVI: 4K@15 fps; 5 MP (2560 x 1944 and 2960 x 1665)@20 fps; 4 MP, 3 MP, 1080p and 720p@25/30 fps. AHD: 4K@15 fps; 5 MP@20 fps; 4 MP, 3 MP, 1080p and 720p@25/30 fps
IP Camera Input	Up to 32 channels: 16 IP by default + 16 converted from analog, up to 8 MP each. Incoming, recording and outgoing bandwidth: 128 Mbps
Encoding Capacity	Main stream, Encode Enhancement off: channels 1 and 9 4K@ (1-15 fps), 6 MP@ (1-20 fps), 5 MP@ (1-25 fps), 4 MP/3 MP@ (1-25/30 fps); other channels 4K@ (1-7 fps), 6 MP@ (1-10 fps), 5 MP@ (1-12 fps), 4 MP/3 MP@ (1-15 fps); 4M-N/1080p/720p/960H/D1/CIF@ (1-25/30 fps). Encode Enhancement on: the channel 1 and 9 rates apply to channels 1, 5, 9 and 13, the other channels keep their rates; 1080p/720p/960H/D1/CIF@ (1-25/30 fps). Sub stream: 960H@ (1-15 fps); D1/CIF@ (1-25/30 fps)
Dual-stream	Yes
Video Bit Rate	32 kbps-6144 kbps
Advanced Codec	AI Coding; H.265+; H.265; H.264+; H.264
Video Output	1 HDMI (up to 3840 x 2160), 1 VGA (up to 1920 x 1080); simultaneous or independent sources configurable
Multi-screen Display	1/4/8/9/16; 1/4/8/9/16/25/36 with IP extension enabled
Third-party Camera Access	Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF

Alarm Event	
General Alarm	Intelligent Motion Detection; alarm box; HDCVI alarm; camera external alarm; network alarm; PIR alarm
Anomaly Alarm	Disk error (no disk, disk error, low space, low quota space); network disconnection; IP or MAC conflict; video loss; video tampering; camera offline
Intelligent Alarm	Face detection; face recognition; perimeter protection; Intelligent Motion Detection
Alarm Linkage	Record; snapshot (panoramic); IPC external alarm output; audio; buzzer; log; preset; email

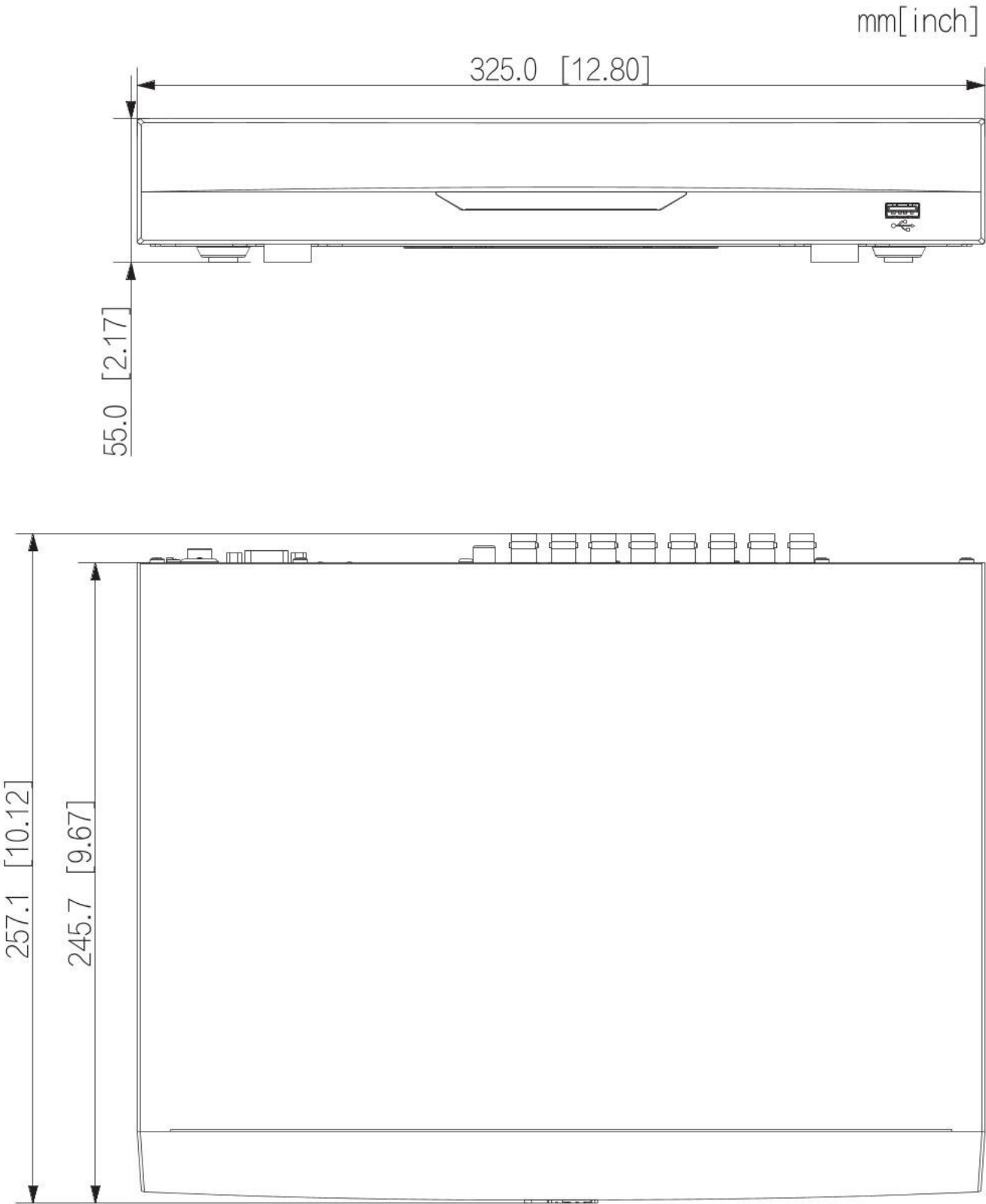
Ports	
RS-485	1
USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)
HDMI	1
VGA	1
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)

Certifications	
CE-LVD	IEC 62368-1:2014
CE-EMC	EN IEC 61000-3-2:2019; EN 61000-3-3:2013+A1:2019; EN 55032:2015+A11:2020; EN 55035:2017+A11:2020; EN 55024:2010+A1:2015; EN 50130-4:2011+A1:2014

Recording and Storage	
Disk Interface	1 SATA, up to 16 TB (varies with ambient temperature)
Record Mode	General; alarm; Intelligent Motion Detection; intelligent; POS
Playback	1/4/9/16 channels; instant, general, event, tag, smart
Backup Method	USB device and network

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DIMENSIONS



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