



Hardware Decoding	4K Ultra HD Output	8CH IP Decoding	Ultra-Compact & Low Power
Dedicated industrial-grade processor, no PC or software licenses required	HDMI 3840x2160 + VGA simultaneous output, multi-screen 1/4/8/9 layout	Up to 8 IP cameras, supports resolutions from CIF to 12 MP via ONVIF	260x232x48 mm, under 10W, fanless-ready, 12V DC

Standalone Hardware Decoder — No PC, No Software, No Hassle

The MT-NVR808-4K is a dedicated hardware decoder designed to display live video from up to 8 IP cameras on monitors or video walls without the need for a PC, VMS software, or additional decoding licenses. Unlike software-based solutions that depend on a computer's CPU and GPU — consuming power, requiring OS maintenance, and risking crashes — this standalone unit delivers stable, always-on 4K decoding with under 10W power consumption. Simply connect to the network, add cameras via ONVIF, and output to any HDMI or VGA display. Ideal for control rooms, retail monitoring stations, reception desks, and any scenario requiring reliable 24/7 video display.

FEATURES

- Standalone hardware decoder: no PC, no VMS software, no decoding licenses required
- 4K Ultra HD output via HDMI (3840x2160) + simultaneous VGA output
- Decodes up to 8 IP camera streams via ONVIF, resolutions up to 12 MP
- Multi-screen display layouts: 1/4/8/9 split view on a single monitor
- Max decoding: 1x 12MP@30fps, or 2x 5MP@30fps, or 6x 1080p@30fps
- H.265+/H.265/H.264+/H.264/MJPEG decoding support
- Ultra-low power consumption: under 10W, 12V DC powered
- Ultra-compact 1U form factor (260x232x48 mm), only 0.85 kg
- Optional local recording on 1x SATA HDD (up to 20 TB)
- Built-in Intelligent Motion Detection with human/vehicle classification (4 channels)
- Audio I/O: 1 RCA input + 1 RCA output for two-way audio
- 80 Mbps incoming / 60 Mbps outgoing network bandwidth

MT-NVR808-4K

TECHNICAL SPECIFICATIONS

Intelligent	
Intelligent Motion Detection by Decoder	4 channels: secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change
AI by Camera	Perimeter protection; Intelligent Motion Detection
Perimeter Performance (by Camera)	All channels (4 targets/s)
Intelligent Motion Detection (by Camera)	All channels (8 targets/s)

General	
Power Supply	12V DC, 1.5 A
Power Consumption	< 10 W (without HDD)
Net Weight	0.85 kg (1.87 lb)
Gross Weight	1.39 kg (3.06 lb)
Product Dimensions	260.0 mm x 232.5 mm x 47.6 mm (10.24" x 9.15" x 1.87") (W x D x H)

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

Decoding	
Access Channels	8 channels
Supported Resolutions	12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 720p; 960p; D1; CIF; QCIF
Decoding Capability	1x 12MP @30fps; 1x 8MP @30fps; 2x 6MP @30fps; 2x 5MP @30fps; 3x 4MP @30fps; 6x 1080p @30fps
Decoding Capability (AI on)	1x 8MP @30fps; 1x 6MP @30fps; 1x 5MP @30fps; 2x 4MP @30fps; 4x 1080p @30fps
Video Compression	H.265+; H.265; H.264+; H.264; MJPEG
Audio Compression	G.711a; G.711u; PCM; G.726
Network Bandwidth	80 Mbps incoming; 80 Mbps recording; 60 Mbps outgoing
Third-party Camera Access	ONVIF

Port	
Audio Input	1x RCA
Audio Output	1x RCA
HDMI	1
VGA	1
USB	2 (1 front USB 2.0 + 1 rear USB 2.0)
Disk Interface	1x SATA (up to 20 TB per disk)

Alarm	
General Alarm	Motion detection; camera external alarm; PIR alarm
Anomaly Alarm	No disk; disk error; low space; low quota space; network disconnection; IP conflict; MAC conflict; video loss; video tampering; camera offline
Intelligent Alarm	Perimeter protection; Intelligent Motion Detection
Alarm Linkage	Recording; snapshot; buzzer; log; preset; email; tour

Network	
Network Port	1x RJ-45 (10/100 Mbps Ethernet)
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; DNS; SMTP; IP Filter; DDNS; IP Search; P2P; Auto Registration
Interoperability	ONVIF 23.12 (Profile T/S/G); CGI; SDK
Mobile Client	iOS; Android
Browser	Chrome; IE; Safari; Edge; Firefox
User/Host	20

Environment	
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%-93% (RH), non-condensing

System	
Main Processor	Industrial-grade dedicated decoder
Operating System	Embedded Linux
Operating Interface	Web, Local GUI

Video Output	
HDMI	1x HDMI (3840x2160, 1920x1080, 1280x1024, 1280x720)
VGA	1x VGA (1920x1080, 1280x1024, 1280x720)
Multi-screen Display	1 / 4 / 8 / 9 split view

Recording & Playback	
Multi-channel Playback	Up to 8 channels
Record Mode	General; motion detection; intelligent; alarm
Backup Method	USB device and network
Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback

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DIMENSIONS

