



AI VideoHUB	Dual 4K Output	Dual Gigabit LAN	Privacy & Cybersecurity
32-channel AI NVR with smart search, perimeter protection, face & ANPR up to 32 MP cameras	2× HDMI up to 8K + 2× VGA, independent matrix output for multi-monitor setups	Sub-network isolation and dual-stream remote access optimized for bandwidth	GDPR-compliant max-retention, AES video encryption, intrusion alerts

FEATURES

- 32 access channels, IP cameras up to 32 MP, 8K HDMI output
- 448/448/448 Mbps incoming/recording/outgoing (200 Mbps with AI active)
- AI Target Search: find specific person or vehicle in seconds
- Intelligent Motion Detection with human/vehicle classification (no false alarms)
- Face detection & recognition, perimeter protection, ANPR, PPE, people counting
- Dual 4K HDMI + dual VGA video output, independent matrix function
- Dual gigabit LAN for sub-network isolation and dual-stream remote access
- 4 SATA bays up to 20 TB each, eSATA expansion, N+M cluster and iSCSI
- Cybersecurity: AES video encryption, unauthorized-access alerts, anomaly detection
- GDPR-compliant retention with encryption, mirror recording and ANR
- ONVIF Profile S/G/T/M, RTSP multi-brand support, free CMS Win/macOS, iOS/Android apps
- 1.5U rack-mountable, 100–240 VAC universal power, ≤ 13 W consumption

MT-NVR5032AI-4K

TECHNICAL SPECIFICATIONS

Intelligent	
AI by Recorder	Face detection; face recognition; video metadata (human, motor vehicles, non-motor vehicles); perimeter protection; Intelligent Motion Detection; AI Target Search
AI by Camera	Face detection/recognition; metadata; perimeter protection; Intelligent Motion Detection; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map; PPE detection; smart object/sound detection; AI Target Search
AI Target Search (Recorder)	4 channels
AI Target Search (Camera)	All channels (32 targets/s)
Perimeter Protection (Recorder)	8 channels, 10 IVS rules per channel
Perimeter Protection (Camera)	All channels (32 targets/s)
Face Attributes	Gender; age group; glasses; expressions; face mask; beard
Face Detection (Recorder)	4 channels (up to 12 face images/s each)
Face Detection (Camera)	All channels (32 targets/s)
Face Database Capacity	Up to 20 face databases, 30,000 images, 3.75 GB total
Face Recognition (Recorder)	1) 24-ch FD (by camera) + FR (by recorder), image stream: 24 face images/s. 2) 4-ch FD (by recorder) + FR (by recorder), video stream: 24 face images/s
Face Recognition (Camera)	All channels (32 targets/s)
Intelligent Motion Detection (Recorder)	16 channels: human/vehicle classification, eliminates false alarms from leaves, rain, lighting changes
Intelligent Motion Detection (Camera)	All channels (64 targets/s)
Video Metadata (Recorder)	4 channels, 22 attributes extraction
Video Metadata (Camera)	All channels (16 targets/s)
ANPR (Camera)	All channels (8 targets/s)
License Plate Database	Up to 20,000 plates, blocklist & allowlist
Network	
Network Protocol	HTTP(S), TCP/IP, IPv4/v6, RTSP, UDP, NTP, DHCP, DNS, SMTP, UPnP, FTP, DDNS, SNMP, P2P, iSCSI
Mobile / Browser	iOS, Android Chrome, IE, Safari, Edge, Firefox
Interoperability	ONVIF (Profile S/T/M/G); CGI; SDK
Network Mode	Multi-address; load balance; fault tolerance; link aggregation
Network Ports	2× RJ-45 10/100/1000 Mbps (dual gigabit)
Environment	
Operating Temperature	−10 °C to +55 °C
Storage Temperature	−20 °C to +60 °C
Operating Humidity	10%–93% RH, non-condensing
Certifications	
CE-EMC	EN 55032:2015+A1:2020; EN IEC 61000-3-2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014
CE-LVD	EN 62368-1:2014

Video	
Access Channels	32 channels
Network Bandwidth	AI disabled: 448 Mbps in / 448 Mbps recording / 448 Mbps out. AI enabled: 200/200/200 Mbps
Resolution	32 MP / 24 MP / 16 MP / 12 MP / 8 MP / 6 MP / 5 MP / 4 MP / 3 MP / 1080p / 720p / 960p / D1 / CIF / QCIF
Decoding Capability	AI disabled: 2-ch 32 MP@25 fps; 2-ch 24 MP@25 fps; 5-ch 16 MP@30 fps; 6-ch 12 MP@30 fps; 10-ch 8 MP@30 fps; 13-ch 6 MP@30 fps; 16-ch 5 MP@30 fps; 20-ch 4 MP@30 fps; 32-ch 1080p@30 fps. AI enabled: 1-ch 32 MP@25 fps; 2-ch 24 MP@25 fps; 4-ch 16 MP@30 fps; 5-ch 12 MP@30 fps; 8-ch 8 MP@30 fps; 10-ch 6 MP@30 fps; 12-ch 5 MP@30 fps; 16-ch 4 MP@30 fps; 32-ch 1080p@30 fps
Video Output	2× VGA (1920×1080, 1280×1024, 1280×720); 2× HDMI (up to 7680×4320 / 4K / 1080p). Heterogeneous output HDMI1/HDMI2; simultaneous VGA1+HDMI1, VGA2+HDMI2
Multi-screen Display	Main: 1/4/8/9/16/25/36 Sub: 1/4/8/9/16
Third-party Cameras	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha
Video Compression	Smart H.265+ / H.265 / Smart H.264+ / H.264 / MJPEG
Audio Compression	G.711a; G.711u; PCM; G.726
Audio	
Audio Input	1-channel RCA
Audio Output	2-channel RCA
Alarm Event	
General Alarm	Intelligent Motion Detection; local alarm; alarm box; camera external alarm; network alarm; scene change; PIR; thermal alarm
Anomaly Alarm	No disk / disk error / low space / abnormal disk health / network disconnection / IP conflict / MAC conflict / abnormal fan speed / video loss / video tampering / camera offline / audio detection
Intelligent Alarm	Face detection/recognition; perimeter protection; metadata; Intelligent Motion Detection; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map; PPE; smart object/sound detection
Alarm Linkage	Record; panoramic snapshot; local alarm output; IPC alarm output; audio; buzzer; log; preset; e-mail
Alarm Input	16 channels
Alarm Output	6 channels (1× 12 V 1 A output)
Ports	
USB / HDMI / VGA	3× USB (1 front 2.0, 2 rear 3.0) 2× HDMI 2× VGA
Serial	1× RS-232, 1× RS-485
Power	
Power Supply	100–240 VAC, 50/60 Hz
Power Consumption	≤ 13 W (without HDD)
Structure	
Net Weight	4.27 kg (9.41 lb)
Gross Weight	6.30 kg (13.89 lb)
Product Dimensions	440.0 × 415.6 × 76.0 mm (W×D×H) — 1.5U rack-mountable
Packaging Dimensions	529.0 × 499.0 × 211.0 mm (W×D×H)

MT-NVR5032AI-4K

TECHNICAL SPECIFICATIONS

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

Storage & Playback	
Disk Interface	4× SATA up to 20 TB each + 1× eSATA. Disk Group supported
Multi-channel Playback	Up to 16 channels
Record / Playback	General, IMD, intelligent, alarm, POS Instant, event, target video, clip, tag, smart playback
Backup	USB device and network

DIMENSIONS & CONNECTIONS

