

MxNVR-IA8 Series

Industrial network video recorders for harsh environments



- > Supports H.264, MPEG4, and MJPEG video recording (limited to VPort models)
- > Can record up to 8 VPort video stream channels (in D1 resolution)
- > Supports video recording by schedule and event record
- > Built-in 2x2.5" SATA hard disk interface for storage hard disks*
- > -40 to 75°C operating temperature (requires solid state disk)
- > Modbus/TCP supported for direct communication with SCADA systems
- > Supports IEEE 802.1X for high network security
- > Robust, fanless, 19" rackmount design

*Hard disk not included in standard package



Introduction

The MxNVR-IA8 is a revolutionary new industrial network video recorder designed for recording the VPort's MJPEG, MPEG4, and H.264 video streams in harsh environments. With rugged design features, such as no heater or fan, a -40 to 75°C operating temperature, and protection against high EMI and surges, as well as the ability to save bandwidth when transmitting video streams back

to the remote control center or machine room for video recording, the MxNVR-IA8 is tailor-made for field site applications. Since videos are only transmitted when remote live view and video playback are required, you will see an improvement in network transmission efficiency and a noticeable reduction in your bandwidth investments.

Specifications

Recording

- No. of Streams:** Up to 8 VPort video/audio streams (in D1 resolution)
- Resolution:** Up to HD (1280x720)
- Stream Types:** H.264, MPEG4, MJPEG
- Supported Models:** VPort 451, VPort 461, VPort 364A, VPort 16-M12, VPort 26A-1MP, VPort 36-1MP
- Video Input:** via Ethernet
- Video File Format:** AVI
- Record Modes:** Manual, schedule, alarm
- Pre-alarm Recording:** Up to 30 sec.
- Post-alarm Recording:** Up to 60 sec.

Searching

Search Modes: Camera, date/time, event

Playback

- Method:** Remote access, FTP file download
- Remote Access:** Playback via web browser or client software
- FTP File Downloads:** Playback via popular media player (requires FFShow)

Storage

- Disk Interface:** 2 2.5" SATAII sockets
- Note:** Storage disks are not included. Users will need to purchase 2.5" hard disks or SSDs (solid state disks) from a hard disk vendor.

Network

- Protocols:** TCP/IP, UDP, HTTP, SMTP, NTP, DNS, DHCP, UPnP, RTP, RTSP, ICMP, IGMPv3, SNMPv1/v2c/v3, DDNS, FTP, Modbu/TCP, 802.1X
- Ethernet:** 1 auto-sensing 10/100/1000BaseT(X) RJ45 connector
- Connections:** 10

Data Ports (reserved for future use)

- COM Ports:** 2 RS-232/422/485 ports, with DB9 male connectors (for external devices)
- USB Ports:** 1 USB 2.0 port
- GPIO**
- Digital Inputs:** 6, source type, 0 to 5 VDC at 15 Hz
- Level 0: Close to GND
- Level 1: Open
- Digital Outputs:** 2, source type, 0 to 5 VDC, max. 20 mA
- Level 0: 0 to 0.55 V
- Level 1: 4.2 to 5.0 V

LED Indicators

- STAT:** Indicates if system has booted up and is operating properly
- PWR:** Power
- HDD:** Indicates if the hard disk is or is not working
- FAULT:** Can be set up to correspond with system alarms—video loss or network down
- Video 1/2/3/4/5/6/7/8:** The status of video channels 1 to 8

Power Requirements

- Input Voltage:** 1 24 VDC power input with 3-pin terminal block connector
- Power Consumption:** Max. of 20 W (with 2 2.5" hard disks)

Physical Characteristics

- Housing:** Metal
- Dimensions:** 440 x 44 x 325 mm (17.32 x 1.73 x 12.8 in)
- Installation:** 19" rackmount

Security

- Password:** User level password protection
- Filtering:** By IP address
- Authentication:** 802.1X

Environmental Limits

Operating Temperature:

Standard Models: 0 to 60°C (32 to 140°F)

Wide Temp. Models: -40 to 75°C (-40 to 167°F)

Storage Temperature: -40 to 85°C (-40 to 185°F)

Ambient Relative Humidity: 5 to 95% (non-condensing)

Standards and Certifications

Safety: UL 60950-1

EMI: FCC Part 15 Subpart B Class A, EN 55022 Class A

EMS:

EN61000-4-2 (ESD), Level 3,

EN61000-4-3 (RS), Level 3,

EN61000-4-4 (EFT), Level 2,

EN61000-4-5 (Surge), Level 3,

EN61000-4-6 (CS), Level 3,

EN61000-4-8,

EN61000-4-11

Note: Please check Moxa's website for the most up-to-date certification status.

Warranty

Warranty Period: 5 years

Details: See www.moxa.com/warranty

System Requirements

Minimum Viewing System Requirements

CPU: Pentium 4, 2.4 GHz or above

Memory: 512 MB memory or above

OS: Windows XP/2000 with SP4 or above, Windows Vista, Windows 7

Browser: Internet Explorer 9.x or above

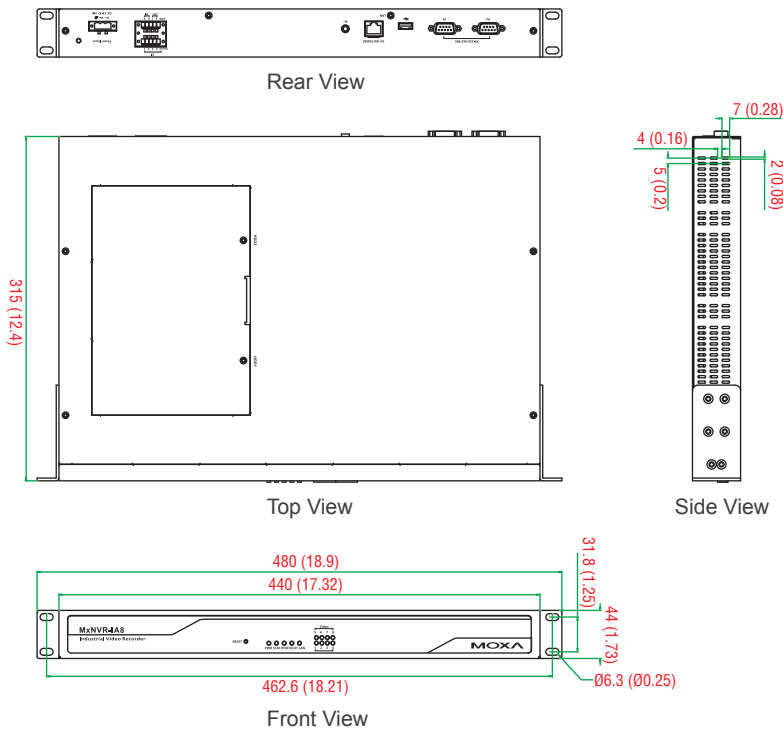
Multimedia: DirectX 9.0c or above

Software Development Kit

VPort SDK PLUS: Includes CGI commands, ActiveX Control, and API library for customized applications or system integration for third-party developers (the latest version of SDK is available for download from Moxa's website).

Dimensions

Unit: mm (inch)



Ordering Information

Available Models

MxNVR-IA8: 8-channel industrial network video recorder, 1 10/100/1000BaseT(X) Ethernet port, 24 VDC power input, 0 to 60°C operating temperature

MxNVR-IA8-T: 8-channel industrial network video recorder, 1 10/100/1000BaseT(X) Ethernet port, 24 VDC power input, -40 to 75°C operating temperature

Note:

- The MxNVR-IA8 does not include an SSD; users must purchase a drive separately
- The MxNVR-IA8-T must use SSDs (Solid State Disks) capable of operating in a -40 to 75°C temperature range
- The MxNVR-IA8 only supports VPort 451, VPort 461, VPort 364A, VPort 16-M12, VPort 26A-1MP and VPort 36-1MP series products

Optional Accessories (can be purchased separately)

DR-4524/75-24/120-24: 45/75/120 W DIN-Rail 24 VDC power supplies

MDR-40-24/60-24: 40/60 W DIN-Rail 24 VDC power supplies, -20 to 70°C operating temperature

Package Checklist

- MxNVR-IA8 network video recorder
- 2 rackmount ears with screws
- 4 pads
- 3-pin terminal block for power input
- 2 5-pin terminal blocks for 6 DIs and 2 DOs
- Quick installation guide (printed)
- Documentation and software CD
- Warranty card