

MxNVR-M04 Series

4-channel H.264/MJPEG streaming video recorders for mobile surveillance



- > Embedded system with low power consumption; no heater and fan required
- > Transmits and records the H.264 and MJPEG video streams simultaneously
- > One SATA interface for 2.5" hard disk or SSD (solid state disk)
- > Meets EN 61373 vibration criteria with a 2.5" inch hard disk installed*
- > Anti-vibration with built-in M12 Ethernet and power input connector, DB9 audio inputs, and DI/DO connector
- > T model is compliant with EN 50121-3-2 and a portion of EN 50155 specifications (T model supports TX temperature level with -40 to 75° operating temperature; SSD required)
- > DynaStream™ supported for optimized network efficiency
- > ONVIF conformity for standardization and interoperability
- > Supports DHCP OPT66/67 for auto-configuration

* Hard disk must be purchased separately



Introduction

The MxNVR-M04 is a streaming DVR (digital video recorder), which can transmit and record H.264 or MJPEG video streams simultaneously. With a rugged design that complies with a portion of EN 50155 specifications, covering operating temperature, power input voltage, surge, ESD, and vibration (T model, TX temperature level), the MxNVR-M04 especially excels in rolling stock IP video surveillance applications. Moreover, the MxNVR-M04 has passed EN 61373 standard anti-vibration testing with a 2.5 inch hard disk (purchased separately), delivering highly reliable storage performance for rolling

stock applications. The MxNVR-M04 can be triggered to record by system boot, by event, by schedule, or by external commands, such as CGI or SNMP. The embedded DynaStream™ function increases the network transmission efficiency by dynamically adjusting the video frame rate. To prevent unauthorized access, advanced 802.1X authentication is available to provide high network security. The MxNVR-M04 also supports the ONVIF standard to easily integrate and interoperate with third party systems and software.

Specifications

Video

Video Compression: H.264 (MPEG4 part 10, AVC), MJPEG

Video Inputs: 4 BNC connectors (1Vpp, 75 ohms)

Video Outputs: Via Ethernet

Video Streams: H.264/ MJPEG dual streams

Video resolution and FPS (frame per second):

| | NTSC | | PAL | |
|---------|-----------|----------|-----------|----------|
| | Size | Max. FPS | Size | Max. FPS |
| Full D1 | 720 x 480 | 30 | 720 x 576 | 25 |
| 4CIF | 704 x 480 | 30 | 704 x 576 | 25 |
| VGA | 640 x 480 | 30 | 640 x 480 | 25 |
| CIF | 352 x 240 | 30 | 352 x 288 | 25 |
| QCIF | 176 x 112 | 30 | 176 x 144 | 25 |

Note:

1. When enabling the H.264 and MJPEG video streams simultaneously, the 2 video streams support up to full D1 resolution at 30 FPS. For example, if the resolution of the H.264 video stream is 720 x 480 at 20 FPS, the MJPEG video stream will support 720 x 480 resolution at 10 FPS, or 352 x 240 at 30 FPS.
2. 4 channels of the MJPEG video streaming support up to VGA, 4CIF and Full D1 resolution at 60 FPS (including pre-event video).

Video Viewing:

- DynaStream™ supported for changing the video frame rate automatically
- Adjustable image size and quality
- Timestamp and text overlay
- Maximum of 8 simultaneous unicast connections

Audio

Audio input: 2, Line-in or MIC-in, DB9 connector

Audio format: Mono, PCM (G.711)

Recording

Stream Types: H.264 @ 120 FPS or MJPEG @ 60 FPS

Video File Format: AVI

Record Modes: continuous recording, schedule recording, event recording

: Ordering Information

Available Models

MxNVR-MO4: 4-channel H.264/MJPEG industrial video recorder, 1 SATA socket, M12 Ethernet connector, 0 to 60°C operating temperature

MxNVR-MO4-T: 4-channel H.264/MJPEG industrial video recorder, 1 SATA socket, M12 Ethernet connector, -40 to 75°C operating temperature

Note:

1. The MxNVR-MO4 does not include a hard disk or SSD; users must purchase a drive separately.
2. The hard disk or SSD is not included in the MxNVR-MO4's 5-year warranty.
3. An SSD is required for the MxNVR-MO4-T to meet wide operating temperature specifications.
4. Conformal coating is available on request.

Optional Accessories (can be purchased separately)

SoftNVR-IA V3.0: 64-channel IP surveillance software for industrial automation applications

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

DK-DC50131: DIN-Rail Mounting Kit, 50x131 mm

CBL-M12(FF5P)/OPEN-100 IP67: 1-meter M12-to-5-pin power cable with IP67-rated 5-pin female A-coded M12 connector

Package Checklist

- MxNVR-MO4 network video recorder
- Panel mounting kit and 6 screws
- 4 hard disk screws
- Quick installation guide (printed)
- Documentation and software CD
- Warranty card