# MXVR4104/4204-I
## 4 Channels H.265 1/2 HDDs AI Mobile Video Recorder

- Supports penta-brid(HDCVI/AHD/TVI/CVBS/IP) video input
- Supports 4-ch 2MP analog cameras and 4-ch 2MP IP cameras input
- Supports H.265/smart H.265 video compression
- Supports 1/2 HDDs up to 2 TB for each), and 1 SD card(up to 256 GB)
- Supports DSM/ADAS/BSD
- Multiple network monitoring: Web viewer, Mobile Center & DMSS

Smart Code (H.265) · GPS · 3G/4G · Wi-Fi · Gyro · 1080p FULL HD

No Fan · Anti-vibration · Easy Installation · 6-36V ISO7637-2 · High and Low Temperature

## System Overview

MXVR4104/4204-I is the new generation of AI mobile video recorder which supports intelligent functions, it uses H.265 technology and the advantages are lowering the transmission bandwidth and saving the storage.It can support 1080P high-definition real-time recording, real-time vehicle location tracking and monitoring. All the information such as GPS and video can be uploaded via wireless network: 3G/4G/Wi-Fi.

It has already passed EN50155/ISO16750 in order to meet the requirements of mobile use.This device can be used in many kinds of solutions for different applications.

## Functions

### Anti-vibration

Using shock-absorbing material and structure, the new designed hard disk box can cope with varying degrees of vibration, keeping the system work normally all the time.

### Wide range of power supply

As the voltage output of vehicle battery changes during driving, the wide range of power supply can protect the device.

### 3G/4G/Wi-Fi

Embedded with 3G/4G/Wi-Fi module, the device can register into a public network to connect with VMS, and can send all the information(video/audio/alarm/gps) through wireless network.

### GPS

Embedded GPS module can receive location information and upload to VMS. Even when the device is offline, it can upload the information after it's online again and the vehicle can be tracked on the electric map of VMS.

### Multiple ports

With kinds of ports, like CAN, RS232, RS485, I/O, the video recorder can connect with various of accessories, such as card reader, fuel sensor, panic button and so on, so that the video, audio, alarm and location information can be uploaded to VMS.

## Technical Specification

### System

| | |
|---|---|
| Main Processor | High-performance industrial embedded micro-controller |
| Operation System | Embedded LINUX |
| Operation Interface | WEB, AV, VGA |

### Video and Audio

| | |
|---|---|
| Analog Camera Input | 4 HDCVI/AHD/TVI/CVBS cameras, up to 1080P resolution (Audio input is not supported when connecting AHD/TVI/CVBS cameras) |
| IP Camera Input | 4 IP cameras, up to 1080P resolution(extendable via PoE switch) |
| Dual-stream | Supported (up to D1 encoding for sub stream) |
| Video Frame Rate | PAL: 1– 25 fps<br>NTSC: 1 – 30 fps |
| Video Output | AV OUT×1, VGA×1<br>Output resolution: 800×600, 1280×1024 |
| Display Split | 1/4/8/9 |
| OSD Overlay | Channel, time, GPS position, license plate |
| Image Quality Adjustment | Image quality adjustable across six levels |

### Compression Standard

| | |
|---|---|
| Video Compression | H.265, smart H.265, H.264, smart H.264 |
| Audio Compression | G.711A/G.711U/PCM |

### Network

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|---|---|
| Mobile Phone Access | iOS, Android |
| WiFi | Supports built-in 2.4 G Wi-Fi modules. |
| Browser | Google, PCAPP, IE9 or newer, Firefox |

## Update

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|---|---|
| Device Update | WEB, USB, remote platform, upgrade tool |

## AI

| | |
|---|---|
| ADAS | Alerts for forward collision, lane departure and vehicles distance too close. |
| DSM | Supports detection of drowsy driving, distracted driving, calling while driving, no driver, wearing IR blocking sunglasses, smoking when driving and lens tampering. |
| BSD | Blind Spot Detection |

## Recording Playback

| | |
|---|---|
| Record Mode | Auto, Manual, motion detection, schedule, alarm Record alarm > alarm > motion detection > schedule |
| Recording Playback | 1, 4 |
| Backup | HDD, USB flash drive and network backup |
| Playback Mode | Normal playback |

## Storage

| | |
|---|---|
| HDD | 1/2 2.5-inch HDDs (SATA) |
| Heat Dissipation | Built-in fan cooling |
| SD card | 1 (256G) |

## Alarm

| | |
|---|---|
| General Alarm | Motion detection, video tampering and loss, local alarm, camera offline, manual alarm control, DSM, ADAS and BSD alarm |
| Abnormal Alarm | No HDD, HDD error, insufficient capacity, illegal login, ACC off, high temperature, rollover, battery low voltage, over speed, low speed, collision, tapid turn, rapid speedup, hard braking, low battery safety exception, network security exception |
| Alarm Linkage | Record, snapshot, local external alarm output, buzzer, log, screen prompt, tour |

## Sensor

| | |
|---|---|
| Gyroscope | Supports event detection and alarm such as rollover, collision, rapid speedup/slowdown/turn. |

## External Port

| | |
|---|---|
| TV Output | 1 |
| Audio Input | 4 channels PoE audio input |
| Audio Output | 1 aviation port for audio output 1 audio talk output |
| Two-way Talk | Supported |
| Alarm Input | 8 channels for alarm input, 1 channel for pulse speed measuring |
| Alarm Output | 1 channel of controllable 12V alarm output, digital quantity |
| RS-232 | 2 |

| | |
|---|---|
| RS-485 | 1 |
| USB | Front panel: 2 × USB 2.0 Rear panel: 1 × USB 2.0 from EXTEND port |
| Pulse Count | 1 |
| Satellite Positioning | GPS/GLONASS |
| Network Port | Front panel: 1 × 10M/100M RJ45 Rear panel: 1 × 10M/100M 6-pin aviation connector |

## General

| | |
|---|---|
| Power Supply | DC 6-36V with the built-in UPS (Enables system protection in normal power cut-off and in under-voltage of vehicle battery.) |
| Power Consumption | 8.4 W (without peripheral ) Low power consumption: < 0.1W |
| Gross Weight | 2.83 KG (6.24 lb) (with packages) |
| Product Dimensions | 1 DIN Front panel: 190 mm × 60 mm (7.5'×2.4') Rear panel: 180 mm × 50 mm (7.1'×2.0') Depth:190 mm (7.5') |
| Packaging Dimensions | 308 mm × 293 mm × 123 mm (12.1'×11.5'×4.8') (L × W × H) |
| Operating Temperature | −30 °C to +70°C (−22 °F to +158 °F) |
| Operating Humidity | 10% − 90% |
| Operating Altitude | 5000 m |
| Installation | Assembled before leaving the factory/bracket |
| Certifications | CE\FCC\EN50155\ISO7637-2\ISO16750\BIS |

## Dimensions (mm[inch])