# DHI-MNVR8208-GFWI

## 10 Channels H.265 2 HDD/SSDs AI Mobile Video Recorder

- Support 8-ch POE IP cameras and 2-ch analog cameras input
- Supports H.264/H.265 video compression
- Supports DSM/ADAS/ANPR/Face Recognition
- VGA, HDMI simultaneous video output
- Supports two pluggable 2.5'' HDD/SSDs, adopting anti-vibration design
- Built-in GPS, 4G and Wi-Fi modules
- RJ45/M12 connectors optional
- Support 6-36V DC wide-range power input

## System Overview

Mobile AI series products are equipped with the most advanced AI technologies, it can provide higher flexibility and accuracy on people and vehicles' recognition. With the help of deep learning algorithms, it is possible to offer various advanced applications such as DSM, ADAS, ANPR, Face Recognition, etc., which really means a lot to our end-users.

## 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.

### 4G/Wi-Fi

Embedded with 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) via 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 network recovered and the vehicle can be tracked on the E-map of VMS.

### Multiple ports

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

## Technical Specification

### Video and Audio

| | |
|---|---|
| Video Input | 10 (2-ch analog + 8-ch PoE IPC) |
| Video Compression | H.265/smart H.265/H.264/smart H.264 |
| Dual-stream | Support (up to D1 encoding for sub stream) |
| Video Frame Rate | PAL: 1 to 25 fps; NTSC: 1 to 30 fps |
| Video Output | 1-ch VGA; 1-ch HDMI; 1 × CVBS (transfer via EXTEND port) Output resolution: 800×600/1280×1024 |
| Multi-screen Display | 1/4/6/8/9/16 split screens |
| Audio Compression | G711A/G711U/G726/PCM |
| Audio Output | 3 channels |
| Audio Sampling | 8KHz, 16Bit |

### Network

| | Eurasian Version | Latin American Version |
|---|---|---|
| Band | LTE-FDD: B1/3/5/7/8/20 LTE-TDD: B38/40/41 WCDMA: B1/5/8 GSM/EDGE: B3/8 | LTE-FDD: B1/2 /3/4/5/7/8/28 LTE-TDD: B40 WCDMA: B1/2/4/5/8 GSM/EDGE: B2/3/5/8 |
| | Frequency Bands | Max. Tx Power |
| Tx Power | GSM850/EGSM900 | 33 dBm ±2 dB |
| | DCS1800/PCS1900 | 30 dBm ±2 dB |
| | WCDMA bands | 23 dBm ±2 dB |
| | LTE bands | 23 dBm ±2 dB |
| Wi-Fi Frequency | 2.4 GHz | |
| Wi-Fi Protocol | 802.11 b/g/n | |

## AI

| | |
|---|---|
| DSM | Support drowsy driving, distracted driving, calling, no driver, wearing IR blocking sunglasses, smoking, lens tampering, and unbelted alarms. |
| ADAS | Support Lane Departure Warning, Forward Collision Warning and Headway Monitoring Warning. |
| ANPR | Support recognition of license plate, vehicle color and vehicle brand. |
| Face Recognition | Supports face attribute detection and face comparison. |

## Recording Playback

| | |
|---|---|
| Recording Priority | Manual recording > alarm recording > motion detection recording > Timed recording |
| Recording Playback | 1/4 channels |
| Backup | HDD/SSD, USB flash drive and network backup |

## Storage

| | |
|---|---|
| HDD/SSD | 2 × 2.5-inch HDD/SSDs (SATA), up to 2 TB for each |
| Heat Dissipation | Built-in fan cooling |
| SD card | 1 (up to 256 GB) |

## Alarm

| | |
|---|---|
| General Alarm | Motion detection, video loss, video tampering, local alarm, camera offline |
| Abnormal Alarm | No HDD, HDD error, insufficient capacity, illegal login, battery low voltage, high temperature, rollover, collision, over speed, low speed, rapid turn, rapid speedup, sharp brake, network security exception, ACC off |
| Alarm Linkage | Log, record, snapshot, tour, buzzer, email, alarm output |

## Sensor

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

## External Interface

| | |
|---|---|
| Alarm Input | 9 channels (Alarm 1-8 are local alarm input, Alarm 9 is pulse input) |
| Alarm Output | 2 channels (1 relay out, 1 controllable 12 V 0.75A out) |
| Audio Talk | Support |
| RS−232 | 3 |
| RS−485 | 1 |
| CAN | 1 |
| USB Port | Front panel: 2 × USB 3.0<br>Rear panel: 1 × USB 2.0 from EXTEND port |
| Network Port | 1 × 10M/100M RJ45 |
| Satellite Positioning | GPS/GLONASS |

## General

| | |
|---|---|
| Power Supply | 6−36 VDC |
| Power Consumption | ≤12W (without any peripheral) |

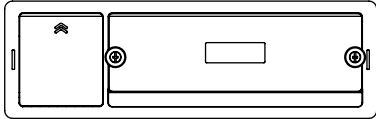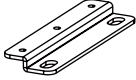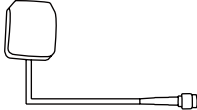| | |
|---|---|
| Operating Temperature | -30°C to +70°C |
| Operating Humidity | 10%–90% |
| Dimension | 180 mm × 190 mm × 50 mm (7.0" × 8.7" × 2.0") |
| Weight | Net Weight: 2.1kg<br>Gross Weight: 3.2kg |
| Installation | Embedded or bracket installation |
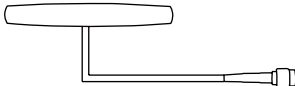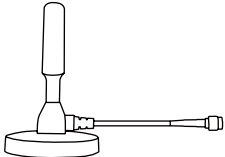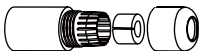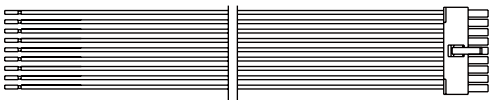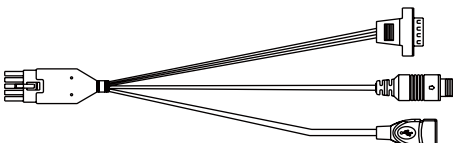
## Certifications

CE/FCC/E-mark/EN50155

## Dimensions (mm[inch])
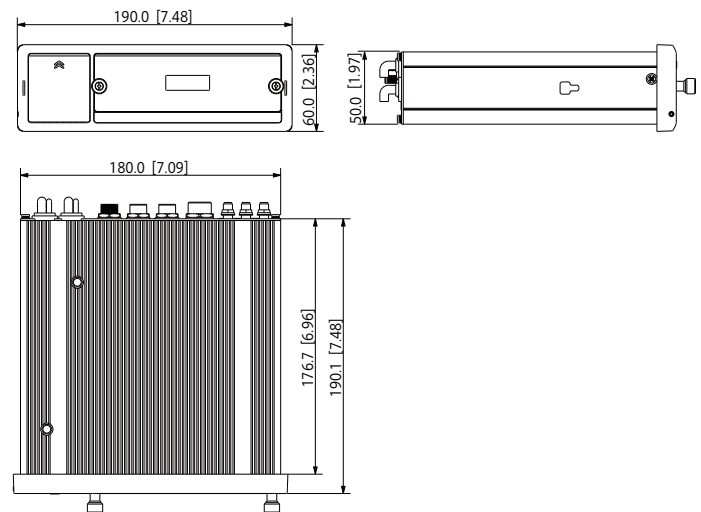
## Packing List

| Figure | Name | Quantity |
|---|---|---|
|  | Device | 1 |
|  | Lug | 2 |
|  | Key | 2 |
|  | GPS antenna | 1 |
|  | 4G antenna | 1 |
|  | Wi-Fi antenna | 1 |
|  | Accessories bag | 1 |
|  | Network port waterproof connector | 1 |
|  | Alarm signal connector | 1 |
|  | Extend port connector | 1 |

## Peripheral Connection

Here we take example of RJ45 series.