

# MNVR8104-GFWI

## 4 Channels POE H.265 1 HDD Mobile Video Recorder



### 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, Face Recognition, LPR, 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.

- Support 4-ch POE IP cameras and 2-ch HDCVI cameras input
- Supports H.264/H.265 video compression
- Supports DSM/ADAS/FR/LPR
- VGA, HDMI simultaneous video output
- Supports two pluggable 2.5" HDDs/SSDs, adopting anti-vibration design
- Built-in GPS, 4G and Wi-Fi modules.
- Aviation connectors optional (RJ45 by default)
- Support 6-36V DC wide-range power input
- Multiple network monitoring: Web viewer, Mobile Center & DMSS

### Technical Specification

#### System

Main Processor	High-performance industrial embedded micro-controller
Operation System	Embedded LINUX

#### Audio

Audio Compression	G711A, G711U, G726, PCM
Audio Output	3 channels
Audio Sampling	8KHz, 16Bit

#### Image

Image Compression	H.265+/H.265/H.264+/H.264
Resolution	1080p (1920×1080) for all channels

#### Video

Video Input	4 channels of POE IPC; 2 channels of HDCVI (DSM/ADAS)
Video Output	1×VGA (Aviation connector) 1×HDMI 1×CVBS (transfer via EXTEND port)
Video Frame Rate	PAL: 25fps NTSC: 30fps
Multi-screen Display	1/4/8/9 split screens
Tour	Timed auto control, dynamic surveillance and alarm.
OSD	Channel, time, license plate, GPS
Color	Set tone, brightness, contrast, saturation and gains for each channel's video image.

#### Alarm

Alarm Input	2-ch analog camera local audio, 4-ch PoE audio input
Alarm Output	1-ch 10-pin M16 aviation connector; 1-ch 7-pin M12 aviation connector; 1-ch audio talk port
Linkage	Snapshot, tour, recording, buzzing and email.

### Hard Disk

Storage	1×SD card, up to 512GB 1×HDD, up to 2TB for each
Work Management	Non-working hard disks fall asleep, to help to reduce power consumption and dissipate heat.
<b>Function</b>	
Recording Priority	Manual recording > alarm recording > motion detection recording > Timed recording
Recording Resolution	1080P for all channels
Recording Lasting Time	60 min (default: 60 min), pre-record: 1–30 sec, post-record: 10–300 sec
HDD full	Stop Record;Overwrite
Recording Searching	Time /Date, Alarm, MD and Exact Search (accurate to second)
Recording Playback Speed	Several playback rates of slow playback or fast playback; playing video backwards; manual single frame playback
Recording Playback Switching	When playing a recording, with one click, switch to recording in another channel whose play time will the same one.
Playback	1 channel
Digital Zoom	When playing recording in a full screen, select a region on the screen to enlarge it.
Motion Detection	396 motion detection regions for each channel; different sensitivity levels selectable for a region.
Video Loss	Yes
Sensor	Built-in gyro
Storage Capacity Extension	Extends storage capacity by USB flash drive or mobile hard disk.
User Management	Management of users of different roles
User Password Security	Yes
Firmware Upgrade	By web, U-disk, ConfigTool or Mobile Center

### Port

USB Port	Front panel: 2 × USB 3.0 Rear panel: 1 × USB 2.0 from EXTEND port
Network Port	1, RJ45 RJ45 (1000 Mbps)
SATA	1
RS-485	1
RS-232	3
Color	Set tone, brightness, contrast, saturation and gains for each channel's video image.
CAN	1
VGA	1
HDMI	1
Wi-Fi	Built-in Wi-Fi module
4G	Built-in 4G module
GPS	GPS (Global Positioning System) & GLONASS (Global Navigation Satellite System)

### AI

Driver Status Monitoring (DSM)	Support drowsy driving, distracted driving, calling, no driver, wearing IR blocking sunglasses, smoking, lens tampering, and unbelted alarms.
Advanced Driving Assistance System (ADAS)	Support Lane Departure Warning, Forward Collision Warning and Headway Monitoring Warning.
License Plate Recognition (LPR)	Support recognition of license plate, vehicle color and vehicle brand.
Face Recognition (FR)	Support max. 30,000 face images, 20 face databases.

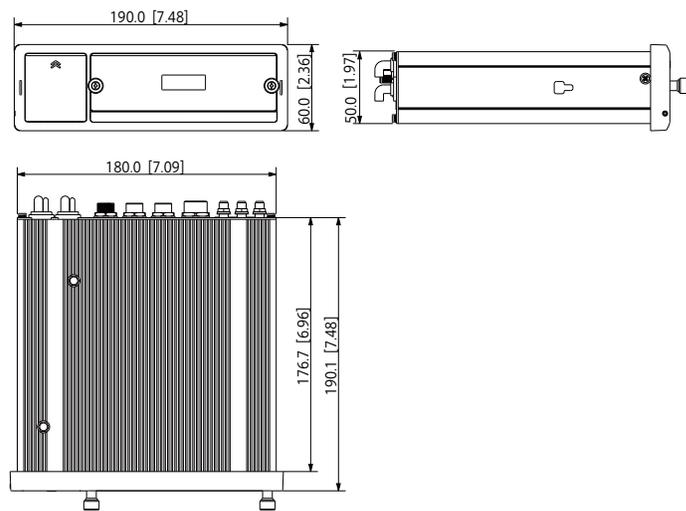
### Others

Power Supply	6–36V DC
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: 2.0kg Gross Weight: 3.1kg
Installation	Embedded or bracket installation

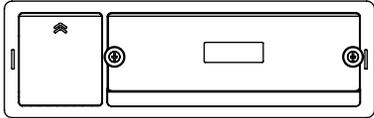
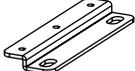
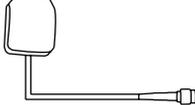
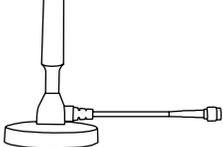
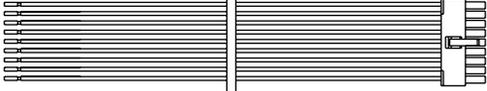
### Certifications

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

**Peripheral Connection**

Here we take example of RJ45 series.

