

# MNVR8208-GFWI

10 Channels H.265 2 HDDs 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" 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

## 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

### System

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

### Audio and Video

Audio Compression	G711A, G711U, G726, PCM
Audio Output	2 channels
Audio Sampling	8KHz, 16Bit
Image Compression	H.265+/H.265/H.264+/H.264
Resolution	1080p (1920×1080) for all channels
Video Input	10 (2-ch analog camera + 8-ch IP camera)
Video Output	1 × VGA (M16 10-pin aviation connector) 1 × HDMI 1 × CVBS (transfer via EXTEND port)
Video Frame Rate	PAL: 25fps NTSC: 30fps
Multi-screen Display	1/4/8/9/16 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	9 channels, Alarm 1-8 are local alarm input, Alarm 9 is pulse input.
Alarm Output	2 channels, 1 relay out, 1 controllable 12V 0.75A out
Linkage	Snapshot, tour, recording, buzzing and email.

### Hard Disk

Storage	1 × SD card (up to 512GB) 2 × HDDs/SSDs (up to 2TB)
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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 be 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
<b>Port</b>	
USB Port	Front panel: 2 × USB 3.0 Rear panel: 1 × USB 2.0 from EXTEND port
Network Port	Front panel: 1 × 100M/1000M RJ45 Rear panel: 4 × 100M/ RJ45/4-pin aviation port for IP camera access
SATA	2
RS-485	1
RS-232	2
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, 1 × 2.4G Wi-Fi SMA antenna
4G	Built-in 4G module, 1 × SMA antenna
GPS	GPS & GLONASS, 1 × SMA antenna

**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	Support max. 30,000 face images, 20 face databases.

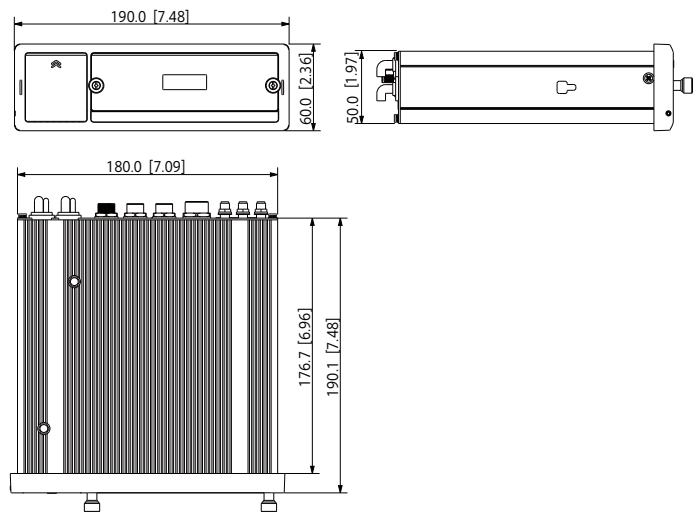
**Others**

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: 2.1kg Gross Weight: 3.2kg
Installation	Embedded or bracket installation

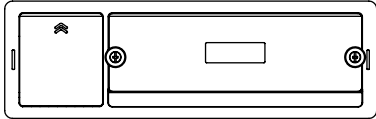
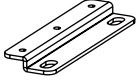

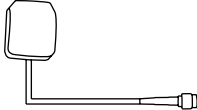
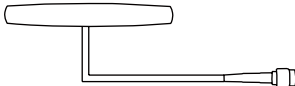
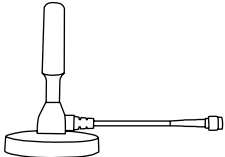


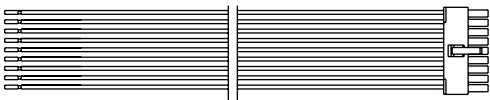
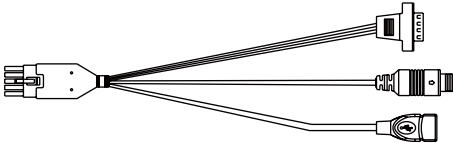
**Certifications**

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.

