# MDVR8204SH

Mobile DVR 8-Channel 1080P GPS 4G WIFI Mobile DVR









# **MDVR8204SH**

#### 8CH 1080P 3SD Card AI Mobile DVR

The MDVR8204SH is a high-performance mobile digital video recorder featuring 8 channels with flexible 1080P/720P/D1 resolution support and mixed NTSC/PAL (N/P) connectivity for seamless fleet integration. Its intelligent storage design utilizes a reliable 3-card configuration (dual SD cards plus one TF card), with each slot supporting up to 512GB, and includes a built-in SSD socket for expansion when high-capacity, long-term recording is necessary. Powered by a built-in NPU (Neural Processing Unit), the unit is an expandable AI hub, ready to integrate advanced functions like DMS/ADAS/BSD, Driver Face Recognition, Alcohol and Tire Pressure Testing, Camera Coverage Alarm, and Motion Detection, while optional 4G, GPS, and WiFi provide essential real-time connectivity and tracking capabilities.



- 8ch AI MDVR supports 8-channel AHD 1080P If necessary, add one more channel IP 1080P camera
- Supports three memory card slots, including two SD card slots and one TF card slot, and a single card supports up to 512GB
- Supports Advanced Driver Assistance System (ADAS), Driver Monitoring System (DMS) and Blind Spot Detection (BSD)Optional
- Compatible with ADAS cameras, AI face recognition cameras, and AHD cameras
  Can connect single IPC Camera
- Optional alcohol detection, tire pressure detection function and vibration seat cushion (fatigue driving vibration reminder)
- Optional UPS battery operation, supporting different UPS capacities to support delayed shutdown (1-3 hours)
- 4G, WiFi is optional
- Easy to assemble and replace. Just replace the cable and upgrade different versions of software without disassembling the MDVR machine.

Features Specifications Applications Accessories



#### 8-CH Camera

8-channel 1080P/720P/D1 video (supports N/P mixing), built-in NPU algorithm capabilities, compatible with ADAS cameras, AI face recognition cameras, AHD cameras and IPC cameras Multiple high-definition cameras, including front, side, rear and interior monitoring, are managed by a central AI-driven DVR unit. The system supports real-time video recording and applications.



#### Video

The device supports 2SD+1TF card storage, and a single card supports up to 512GB capacity. There is an SSD slot in the device, and you can add an SSD according to your needs. The stored video is recorded in a loop through the SD card and TF card, and the loop deletion (the oldest video is deleted) maintains longer video storage and supports SD card loop recording, TF card mirroring, and supplementary recording.



#### Alcohol testing

Supports alcohol detection. The device can control the vehicle ignition when connected to the vehicle. The driver can check whether he has been drinking before getting in the car. If he has not been drinking, the vehicle can be started normally. If the driver wants to start the vehicle after drinking, the device will lock the vehicle ignition, reminding the driver that he has been drinking and cannot drive the vehicle, and report the driver's drinking alarm to the platform to ensure the driver's safety.





Note: Peripheral cameras are sold separately.

#### Assistance (ADAS)

ADAS intelligent assisted driving system can monitor the distance between the vehicle and the vehicle in front in real time, issue collision warnings, and remind the driver to change lanes. It will also issue warnings to the driver to ensure the driver's road safety.



#### Driver Monitoring System (DMS)

Driver Monitoring System (DMS) can be Used in conjunction with the Vibrating Seat Cushion (optional), it can detect and remind the driver of various unsafe driving behaviors, including smoking, mobile phone use, driver distraction, fatigue driving, and when the driver's face is not in the detection area, the Vibrating Seat Cushion can vibrate when the driver is driving fatigued to achieve the purpose of reminding the driver to drive safely.



#### BSD (Optional)

Optional BSD (Blind Spot Detection) can address the issue of blind spots caused by the driver's restricted rearview mirror view. It includes a pedestrian observation system, providing an additional layer of protection for the driver.





8CH AHD



**GPS/BD** 



Alcohol testing



Fleet Monitoring
VIA CMS PLATFORM



3G/4G/5G



**Advanced Driver Assistance System** 



TPMS (Tire Pressure Monitoring System)



**WI-FI Location** 



**Driver monitoring system** 



I button (swipe card to turn on the device)



2SD+1TF max 512GB



**Blind spot detection system** 

# QOHO MDVR8204SH AI Mobile DVR: Optimized Storage and AI Safety for Fleets

The MDVR8204SH is an 8-channel, Mobile DVR with a powerful built-in NPU for advanced Al-driven features like DMS, ADAS, and BSD (optional). It boasts flexible and extensive storage via a 3-card design (2 SD + 1 TF), supporting up to 512GB per card, along with a reserved slot for an optional SSD. The unit includes GPS/BD positioning and is compatible with various optional peripherals, including alcohol detection (with ignition lock), TPMS, and 4G/5G/WiFi connectivity, making it a comprehensive solution for intelligent fleet safety and monitoring.





**Specifications** Applications Accessories **Features** 

System

Power

**VIDEO** 

**UPS** 

system: Linux

language: English, Chinese, Hungarian, other optional Operation Mode:

User interface, controller, mobile app, network

CPU:

Novatek NT98323 Internal Memory: DDR3 4GBIT Flash 128M Nand Power consumption: Bare device: ≤4w

Fully functional: ≤60w Applicable vehicles (power supply):

8~36V voltage vehicle can run, optional additional (battery) support, different capacities can be selected 1-3 hours

Voltage input:

1. The input voltage is +8V ~ +36V, if the voltage is lower than 8V or higher than 36V for a long time,the device automatically shut down and enter the protection mode.

2. Output voltage is 12V(+/-0.2V),The maximum current is 3A. Output voltage is 5V(+/-0.2V),The maximum current is 1A.

Preview function: Supports 8-screen 5x7F\*2.7V: splicing for preview, which can be eventtriggered to switch between full-screen be fully charged in 3 minutes. Even and splicing display.

Frame rate frames/sec 720P: 240 frames/sec NTSC: seconds and continue to complete 240 frames/sec Single channel maximum: 30 frames/sec

Resolution D1 encoding formats.

Picture quality level be configured, where level 1 is the best optional (1-3 hours), built-in and level 7 is the lowest.

Code rate (Bitrate) Options D1: 512, 768, 1024 (three levels optional) 720P: 1024, 2048, 4096 (three levels optional) 1080P: 2048, 4096, 6144 (three levels optional)

1. Power on and charge, and it will if the external power fails, the 1080P: maximum 120 system can still operate for 10 data saving and shutdown.

2. To ensure that the device does Supports 1080P, 720P, and not restart when the input power is unstable.

> 1 to 7 levels can 3. Built-in UPS polymer battery interface and fixed position as standard configuration

> > Car Key (ACC) Signal: ≤6VThe car key is off ≥7VThe car key is on

Record

Video Mode

Sensors & Interfaces

The mdvr8204sh records video The device offers multiple RS232/458: and data onto a mix of storage media, supporting up to two 1TB SD cards, plus one MicroSD card and one MSATA SSD for reliable, large-capacity storage.

recording modes (manual, alarm, timed, mirror) and records by default. You can search footage by time, type, or storage location. Video through preset interface playback supports viewing up to 4 channels simultaneously on the device, including analysis of vehicle data. Playback controls include fast forward/rewind at speeds up to 16x, pause, play, and time selection.

2xRS232, 1xRS485

Can connect alcohol detection sensor, tire pressure detection sensor, LED control panel and other peripherals

USB:

Usb2.0, the front USB shell is used for data export and upgrade

1-Wire:

1-wire support for I Button

MDVR Player

platform Support CMS for download/playback and history. The stored video is in an encrypted format and can be played through the MDVR player software.

**GPS-TIME** 

3/4/5G

WIFI

Communication port

Built-in global positioning system Compatible with 3/4/5G: (GPS) module and antenna, Optional modules which can realize real-time EVDO/TDpositioning, speed detection, GPS SCDMA/WCDMA/TDDtime synchronization, and report LTE/FDD-LTE, etc. location information to the CMS platform in real time, facilitating

Optional built-in WIFI module and antenna WiFi makes MDVR menu settings simple, eliminating the need for a remote control Support wireless video download

802.11b/g/n/ 2.4G/5.8G optional

RJ45 Network:

1 × RJ45 for expansion connection of IPC camera

**USB** interface:

2 USB 2.0 ports, front panel for downloading video files and upgrading firmware; rear panel for backing up records and connecting to firebox

Input/Outputs

**Talkback** 

G-sensor

6\*I/O Alarm output (12V/GND) Can receive level signals such as turn signal to trigger alarm

Monitoring function: You can use the CMS platform to initiate monitoring broadcasts

Automatically correcting and doing not limit the installation direction of the equipment



Features Specifications Applications Accessories



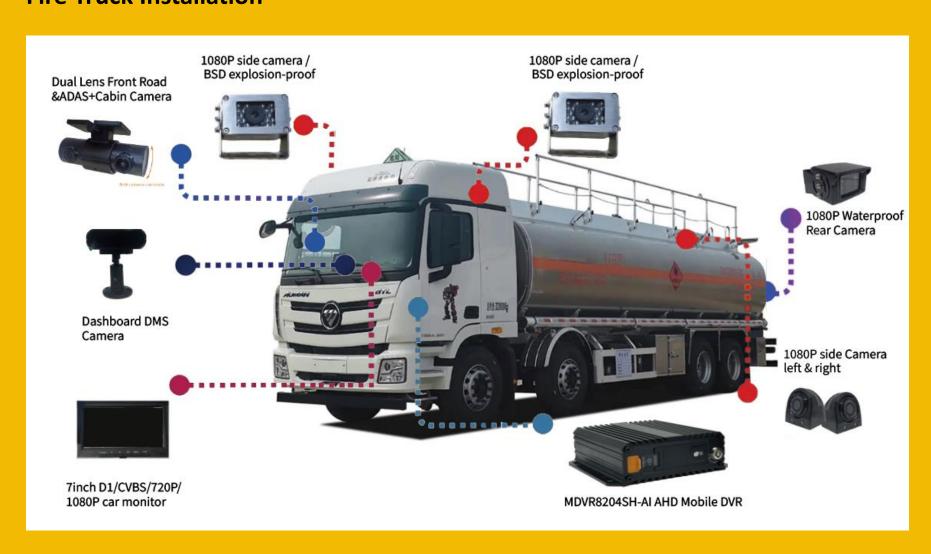




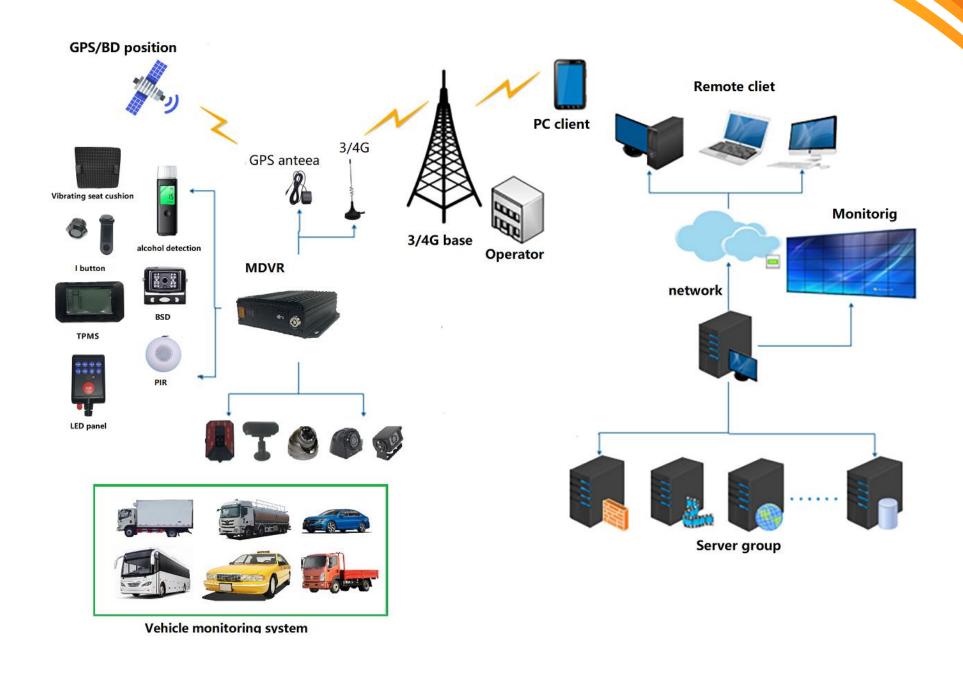
### **Container Truck Installation**



### **Fire Truck Installation**







## **APPLICATION**





Features Specifications Applications Accessories



### **Optional peripherals:**

