

MDVR8204SH

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



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MDVR8204SH

4CH 1080P 3SD Card AI Mobile DVR

The **MDVR8204SH** is a high-performance **4-channel Mobile DVR** capable of recording in shar 1080P **HD** (or optional 720P/D1) and is engineered for maximum storage flexibility, featuring a unique **3-card design** (dual SD plus one TF) supporting up to **512GB per card**, along with an integrated socket for an optional **SSD** upgrade. Its power stems from a built-in **NPU** (Neural Processing Unit) that enables powerful AI capabilities like **Camera Coverage Alarm** and **Motion Detection**, with easy expandability for advanced functions such as **DMS**, **ADAS**, **BSD**, driver face recognition, alcohol testing, and tire pressure monitoring, all complemented by optional **4G**, **GPS**, and **WiFi** connectivity and support for **N/P mixed connection**.



- 4ch AI MDVR supports 4-channel AHD 1080Pif 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

4-CH Camera

4-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 analysis

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.

Driver 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.



Note: Peripheral cameras are sold separately.

- | | | |
|---|--|--|
|  4CH 1080P |  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 **4-channel, Mobile DVR** with a powerful **built-in NPU** for advanced AI-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.



Features

Specifications

Applications

Accessories

System

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 UPS (battery) support, different capacities can be selected 1-3 hours

Power

Voltage input:
1.The input voltage is +8V to +36V. If the voltage is lower than 8V or higher than 36V for a long time, the device will automatically shut down and enter protection mode.
2. Pure step-down power supply, the system is divided into two power supplies (camera and system power supplies are independent)
CAME_12V X 8:
The total current is 5A, which is a 1A interface connected to the AHD camera. You can control the switch and power of the camera as needed. The system can control the power of the camera and monitor independently, which is convenient for shutting down unnecessary cameras and monitors after a delayed shutdown.
12V output:
The output voltage is 12V (+/- 0.2V) and the maximum current is 3A.
5V output:
The output voltage is 5V (+/- 0.2V) and the maximum current is 1A.

VIDEO

Preview function: Supports 8-screen splicing for preview, which can be event-triggered to switch between full-screen and splicing display.
Frame rate 1080P: maximum 120 frames/sec 720P: 240 frames/sec NTSC: 240 frames/sec Single channel maximum: 30 frames/sec
Resolution Supports 1080P, 720P, and D1 encoding formats.
Picture quality level 1 to 7 levels can be configured, where level 1 is the best 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)

UPS

5x7F*2.7V:
1. Power on and charge, and it will be fully charged in 3 minutes. Even if the external power fails, the system can still operate for 10 seconds and continue to complete data saving and shutdown.
2. To ensure that the device does not restart when the input power is unstable.
3. Built-in UPS polymer battery optional (1-3 hours), built-in interface and fixed position as standard configuration
Car Key (ACC) Signal :
≤6V The car key is off
≥7V The car key is on

Record

Storage method
Three memory card slots: two SD cards, one TF card, single card supports a maximum capacity of 512G, and an SSD slot is reserved for optional addition
Storage method:
1. Support SD card, TF card loop recording, loop deletion (the oldest video will be deleted)
2. Support SD card loop recording, TF card mirroring, and supplementary recording.
Video Detection:
Search by recording time, recording type, recording storage device, etc.
File Format/System:
H.265/FAT32

Video Mode

Video Mode:
Recording is enabled by default and supports manual recording, alarm recording, timed recording, mirror recording, etc.
Video Search:
Search by recording time, recording type, recording storage, etc.)
Video playback:
Supports local playback, can play up to 4 channels simultaneously, and analyze vehicle information in the file at the same time.
Video playback:
Support fast forward, fast rewind, play, pause control, support 2x, 4x, 8x, 16x fast forward or rewind, support time selection playback control

Sensors & Interfaces

RS232/458:
2xRS232, 1xRS485
Can connect alcohol detection sensor, tire pressure detection sensor, LED control panel and other peripherals through preset interface
USB:
Usb2.0, the front USB shell is used for data export and upgrade
1-Wire:
1-wire support for I Button

MDVR Player

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

GPS-TIME

Built-in global positioning system (GPS) module and antenna, which can realize real-time positioning, speed detection, GPS time synchronization, and report location information to the CMS platform in real time, facilitating fleet management

3/4/5G

Compatible with 3/4/5G:
Optional modules
EVDO/TD-SCDMA/WCDMA/TDD-LTE/FDD-LTE, etc.

WIFI

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

Communication port

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

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

Talkback

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

G-sensor

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

Features

Specifications

Applications

Accessories

(2SD+1TF)512G

+8-36V

GPS/BD

SIM3/4G/5G

WIFI

Breathalyzer

Optional AI



Sim Card

SD Card Slot 1

MicroSD Card Slot

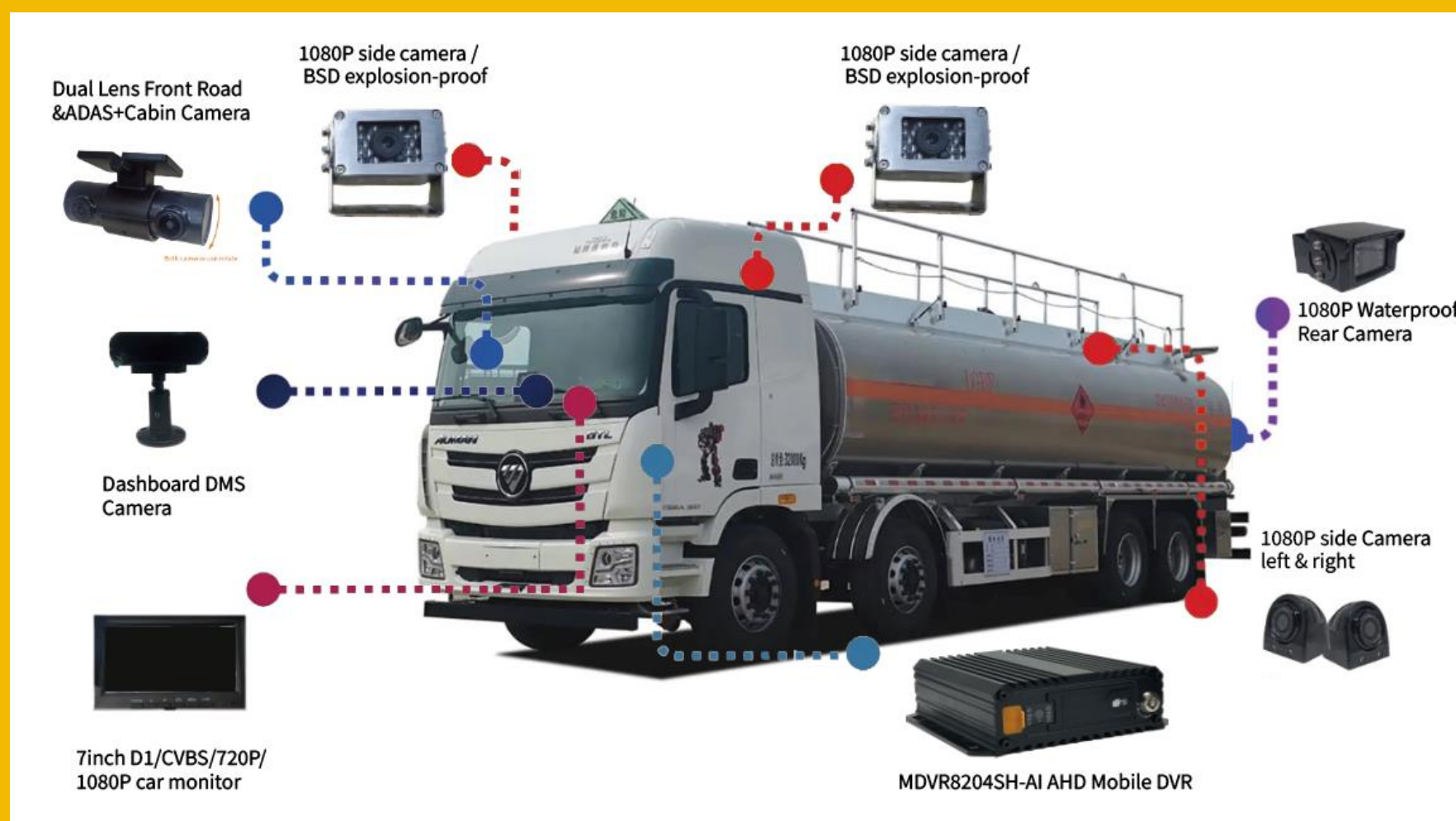
SD Card Slot 2

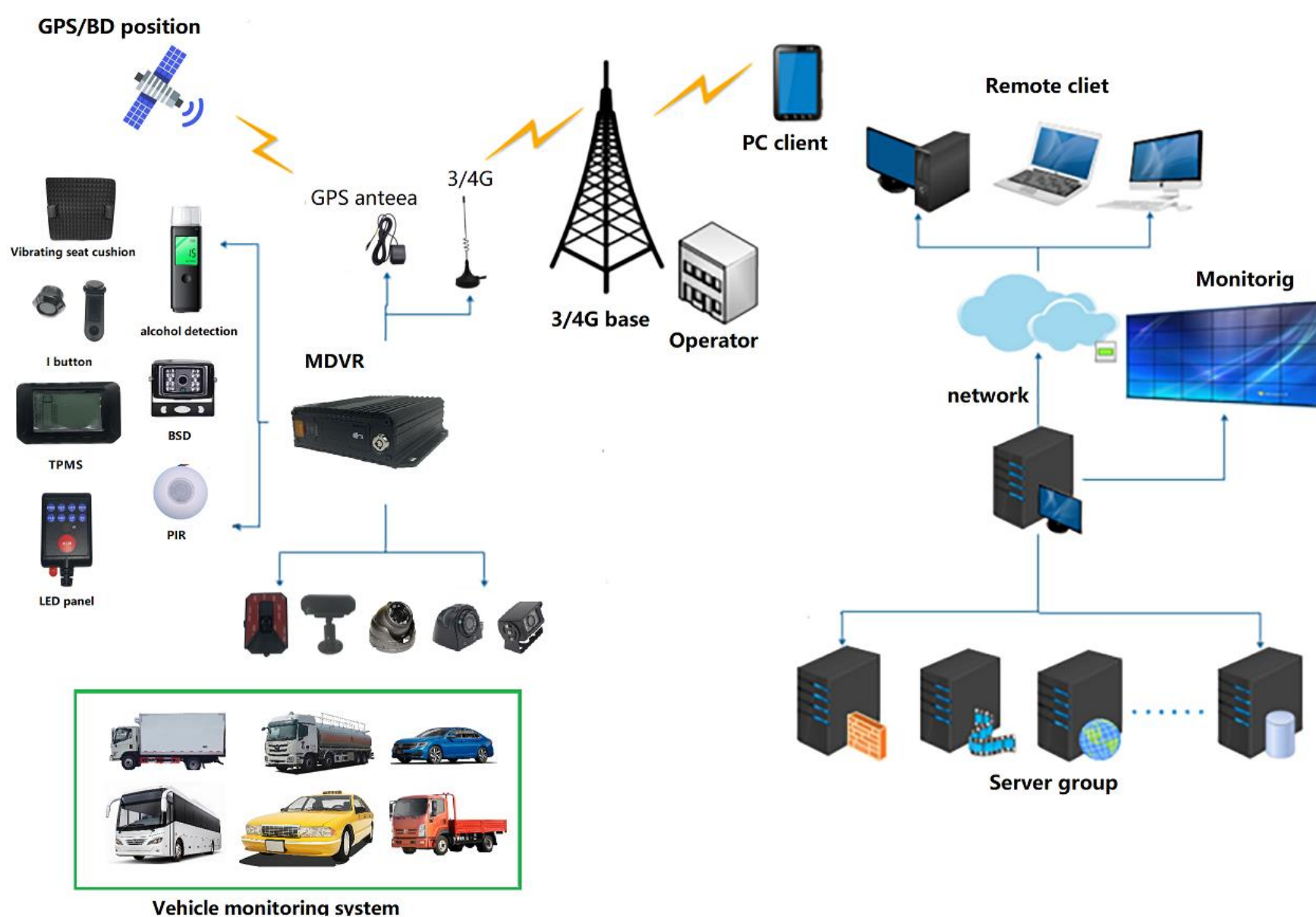


Container Truck Installation



Fire Truck Installation





APPLICATION



Dump Truck



Transport Bus



Fire Truck



School Bus

Features

Specifications

Applications

Accessories



remote control



I/O Alarm cable 28 Pin



video/audio output cable



Keys



Spanner



GPS Antenna



WIFI Antenna



3/4G Antenna



Hand microphone (AI)



CVBS with monitor (optional)



VGA with monitor (optional)

Optional peripherals:



Vibrating seat cushion



I button (optional)



Tire pressure sensor



www.qohovisions.com
Alcohol testing



BSD



PIR (motion sensor)



LED panel

sales@qohovisions.com