MDVR8102S

4CH H.265 AI Dual SD Card 1080P AI Mobile DVR

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The 8102S is a compact car-mounted hard drive video recorder with 4 1080P cameras. It has a built-in 4G global positioning system and WiFi, and can be installed in a car to capture the front road and interior views. It also has an advanced driving assistance system camera to ensure safe driving. Additionally, it has a driver monitoring system camera to measure the driver's condition on the bike lane. Users can also upgrade to a blind spot detection system. If you want to travel in an absolutely safe environment, this is a good optional feature.

- Industrial grade design
- Support remote live view in real-time
- Mobile phone configuration, easy setting
- Support WIFI,4G/5G,mobile network automatic switching
- Support dual TF cards, maximum 512GB*2
- Two-way intercom between driver and Platform   CMSV6   & Wialon platform or third party platform with SDK/API
- AI ADAS+DMS or BSD and max 4 channel 1080P Remote view

Features	Specifications	Applications	Accessories

CMSV6

The CMSV6 monitoring client is capable of conducting real-time monitoring and management of vehicles. It can accurately locate the specific position of the vehicle, and drivers can observe the vehicle information in real time at any time.

Driver Assistance (ADAS)

ADAS intelligent assisted driving system can monitor the distance between the vehicle and the preceding one in real time, issue collision warnings, and alert the driver about lane changes. It also gives warnings to the driver.

Video

It adopts the H.265 compression format, supports full HD 1080P recording, and is equipped with the high-performance NovaTek NT98528 processor, ensuring efficient storage and smooth video streaming transmission.

Note: Peripheral cameras are sold separately.

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.

Driver Monitoring System (DMS)

The DMS camera has the ability to alert for fatigue driving   and distracted driving behaviors such as making phone calls, yawning, smoking, etc., as well as to detect situations where the driver is not in the correct position.Real-time monitoring of driver information to ensure driver safety

4-CH Camera

It is equipped with a 135° camera inside the vehicle and a 110° camera outside the vehicle, located respectively at the front of the vehicle and inside the cabin. It can promptly observe information both inside and outside the vehicle. You can also choose to install 3/4 of the external driver monitoring system cameras, and the video playback adopts the encrypted MP4 format.

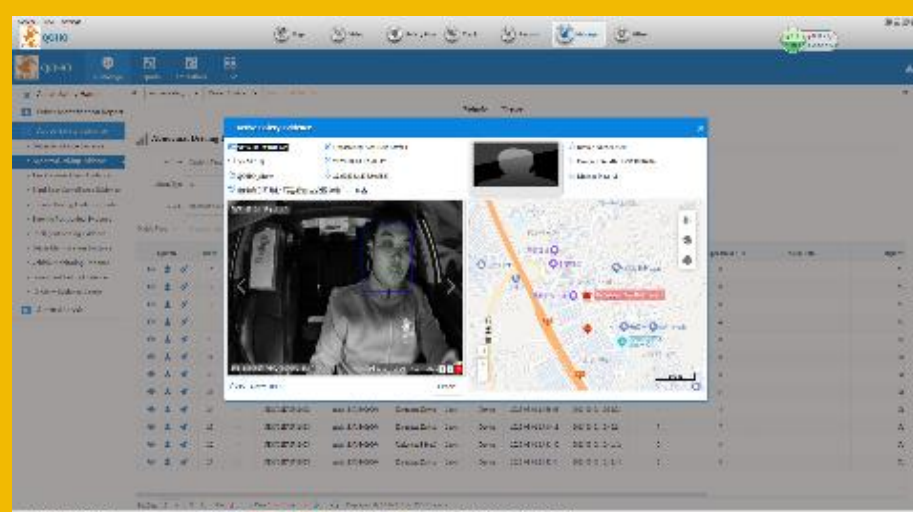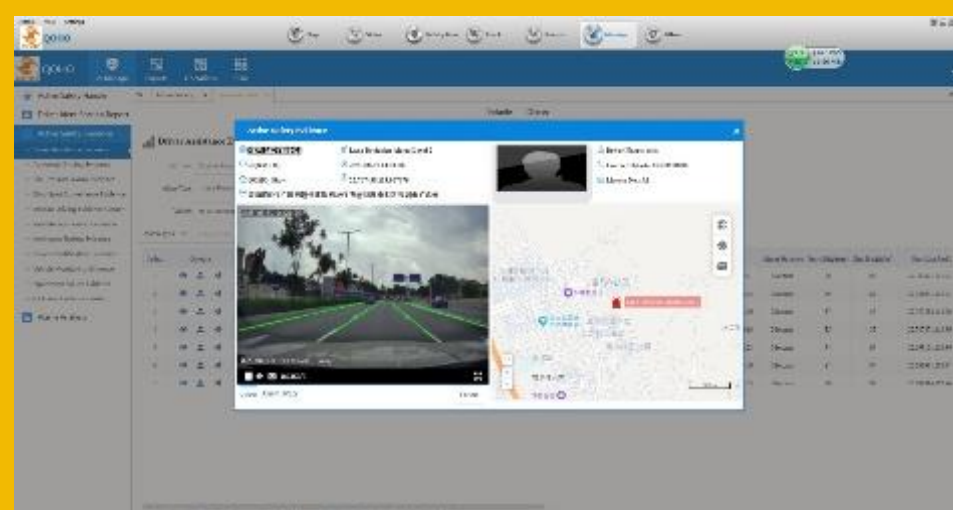|	SOS Call Button		GPS/BD		WEB page settings
	CMSV 6		FDD-LTE/WCDMA, TD-LTE, FDD-CTLTE		Advanced Driver Assistance System
	G-Sensor		WI-FI Location		Driver monitoring system
	4-CH 1080P		2TF card max 512GB		Blind spot detection system

Driver Monitoring System (DMS) – Real-Time Safety at Work

The MDVR8102S integrates a **Driver Monitoring System (DMS)** designed to improve road safety by keeping a watchful eye on driver behavior. Using a built-in cabin camera and intelligent detection algorithms, the DMS continuously monitors for signs of distraction, fatigue, or risky driving habits.

Advanced Driver Assistance System (ADAS) – Smarter, Safer Driving

The MDVR8102S is equipped with an **Advanced Driver Assistance System (ADAS)** that helps prevent accidents by actively monitoring the road environment and providing real-time warnings. Using a forward-facing HD camera and intelligent analysis, ADAS identifies potential dangers before they turn into critical events.

2*1TB Micro-SD Card Slot & Sim Card Slot

3M Sticker

Heat Pad

ADAS Camera

SOS Button

DMS Camera

BSD Camera (optional)

Features	Specifications	Applications	Accessories

General

SOC:
Novatek 98323 dual core + NPU
positioning system: GNSS+BS
Operating Voltage: 12-36V vehicle systems

Power

Working mode: 8-36V, lower consumption
Standby mode: 12V,10mA: When vehicle been crushed on standby mode, alarm information would be sent to manager's mobile phone and device would start recording in 10 seconds

PC Client

2-CH or 4ch channels video playback;
Track playback;
Android and IOS version;
Support CMSV6, Wailon, and SDK/API integration with third party platform

MDVR Player

industrial encrypted video format, convert into MP4 video format, convenient for sharing intercepted videos

GPS-TIME

Built-in GPS module and antenna to make sure accurate position and time

NET/4G

Built-in 4G module and antenna, FDD-LTE/WCDMA,TD-LTE,FDD-CTLTE optional

WIFI-AP

Built-in WIFI module and antenna; AP mode in default, phone connect directly with device and can switch to WIFI mode after set well the parameters .Support WIFI downloading.

Alarm

Press SOS button, upload picture or video to server (optional)

Language

Video compression:
AHD H.265
compression
Chinese, English
or others (can be
customized)
Clear sound quality:
Support send
broadcast text
content
remotely, intercom
two-way

4CH-AI

Built in camera 1:
1080P ADAS
camera
Built in camera 2:
1080P 130 degree
cabin wide view
camera
External Camera:
CH3 or CH4 can
connect BSD or
DMS Camera

OSD

Optional OSD
information (CVBS on
Monitor or CMS client):
Time, channel name,
company name, driver
name, plate number, GPS
position, speed, G-sensor
Harsh Braking, Harsh
Acceleration, Harsh
Concerning, Over speed)

Recording

Support CMS
platform back-up,
mobile phone local
downloading/playback,
History
recording via
MDVR player
software.

Input/Outputs

2*I/O Alarm output
1*I/O Alarm Output
(5V)
RS232 Interface
for
Fuel/Temperature
/Oxygen Sensor
RFID Reader...etc

G-sensor

automatically
correcting and do
not limit the
installation
direction of the
equipment

Storage

Two TF card
slot, Support 2
max 512G TF cards
each slot

Features	Specifications	Applications	Accessories

+9-36V

2*1TB SD
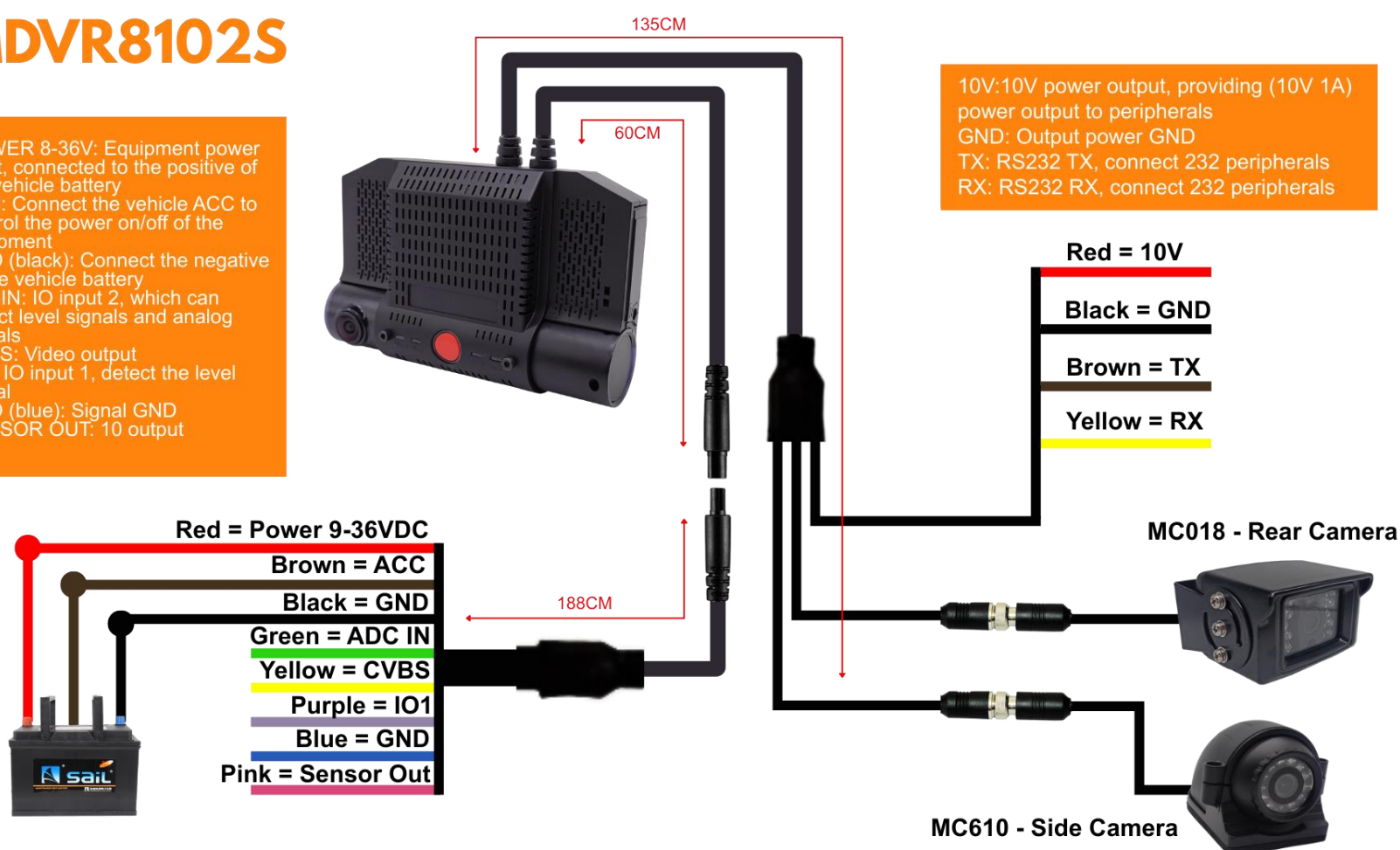Card Slot

GPS/BD
SIM 4G/5G
WIFI - AP
G-Sensor
ADAS
DMS
BSD

INSTALLATION

MDVR8102S

POWER 8-36V: Equipment power input, connected to the positive of the vehicle battery
ACC: Connect the vehicle ACC to control the power on/off of the equipment
GND (black): Connect the negative of the vehicle battery
ADCIN: IO input 2, which can detect level signals and analog signals
CVBS: Video output
101: IO input 1, detect the level signal
GND (blue): Signal GND
SENSOR OUT: 10 output

135CM

60CM

10V:10V power output, providing (10V 1A) power output to peripherals
GND: Output power GND
TX: RS232 TX, connect 232 peripherals
RX: RS232 RX, connect 232 peripherals

Red = 10V
Black = GND
Brown = TX
Yellow = RX

Red = Power 9-36VDC
Brown = ACC
Black = GND
Green = ADC IN
Yellow = CVBS
Purple = IO1
Blue = GND
Pink = Sensor Out

188CM

MC018 - Rear Camera

MC610 - Side Camera

MDVR8102S
2-4ch Built-in ADAS & DMS Smart AI Dash Camera

(4G)

Remote Monitoring Platform

ADAS

DMS

MC018
Rear Camera

APPLICATION

Car

Transport Bus

Mini Truck

Van

Features	Specifications	Applications	Accessories

3M adhesive

Lock-picking key

Power supply tail wire

CVBS Power tail wire

Spanner

CVBS