## 1080P 4G WIFI 3 Cam DVR System

with the option to add up-to 5 cameras

# **Quick Start Guide**



\*Optional 7' or 10' LCD Monitor

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### **Preface**

Thank you for choosing our1080P 4G WIFI 3 Cam DVR System with the option to add up-to 5 cameras product, please carefully read the instructions before operating.

Please check the items in package with packing list, contact with the distributor if any product piece is missing.

### ▲ Disclaimer :

- Read this user manual carefully please. Once device is powered on, you are deemed to have read this user's manual.
- This product is not waterproof. \*only cameras are waterproof
- This Product used as assistant tool for Security only, can't prevent all kinds of deliberately theft or malicious damage vehicles. For the safety of your assets, you still need keep necessary vigilance and security awareness after you installed this product.
- We do not bear responsibility to any loss except product itself. Thanks!

### 1. Product Introduction

Our MDVR system allows for driver tracking and remote monitoring using an IP Server. Receive alert triggers like G-Sensor, alarm settings and over speed settings directly to an email or text message. All this when using a remote IP server or remote management, system. MDVR product are simple, elegant, anti-vibration, flexible installations, powerful functions and highly reliable. \*7" or 10" LCD Monitor is optional

### **Product Features**

- > Full HD 1080P resolution (100fps PAL)
- > Power failure protection
- Rich ports(4G,GPS,I/O,RS232,RS485,Canbus)
- Large storage(2xSD card max 256GB, \*internal SSD max 512GB, 2 terabyte extended HDD connection port
- \*Optional USB Tool works with Tools APP to manage device settings directly from your mobile device.

#### **Product Main Functions**

- ➤ Wireless Communication: Real-time live remote monitoring, video downloading, parameter configuration, remote upgrade, remote control and other data communication using WIFI or 3G/4G sim card service
- Recording: 4CH AHD 1080P+1IPC(1080P) backward compatible with AHD720P/D1/ HD1/CIF; Support PAL system, Video OSD overlay, such as time, channel name, license plate number, GPS, speed, etc;Support storage device to record automatic coverage and alarm video file protection
- Storage System key locked. Large storage(2xSD card max 256GB,
   \*internal SSD max 512GB, 2 terabyte extended HDD connection port.
- Playback: Support local 4-5 channel audio and video sync playback; Support PC-side playback analysis tool; Support remote search playback; Support traditional playback functions such as play, pause, frame release, slow release, fast forward, fast reverse
- Driving Records: It can record driving information such as vehicle speed, GPS data, temperature, and oil quantity; The switch quantity can be collected through the reserved 4-5 digital input ports; Support local recording, view driving information; Support remote real-time upload and history search view

### 2. Technical Parameters

Items	Device Parameters	Descriptions
	Operation	Linux3.10
System	Languages	English /Chinese
, , , , ,	Control Methods	Remote Controller/Client Web Platform/Tools APP
	Input	4xAHD1080P+1IPC
	Output	1xCVBS
Video	Signal Standard	Electrical level: $1.0\text{Vp-p}$ Input/Output independent: $75\Omega$ PAL
	Input	4CH
	Output	1CH
Audio	Signal Standard	Electrical Level: 2.0Vp-p Input independent 4.7K Output independent: 1.0K
	Image Pixel	PAL:704*576
Display	Terminal	Optional External Display Monitor
2.66.67	Content	Live video; Date; Time; GPS information; Communication signal; license plate; storage information; network status
	Frame Rate	100fps 1080P @ PAL
	Recording Mode	Boot, Timing, Alarm
A/V	Video Compression	H.264, Variable bite rate(VBR)/ Constant bite rate(CBR)
Compression	Resolution	1080P(1920*1080);720P(1280*720);D1(704*576);HD1(7 04*288);CIF(352*288)
	Audio Compression	G.726

Items	Device Parameters	Descriptions
	Bit rate	32Kbps/40Kbps
Playback	Playback Channel	Local single channel playback;browser 1/4/5 channel playback
	Search Mode	Time/Date, Channel, Alarm
	SD Card	2xSD 2.0 Interface, support 256G SD card max 512GB SD
Storage	SSD	1xSSD supports internal 512GB
	HDD Port/Cable	supports external up-to 2 terabytes
Satellite Position	GPS/BD	Frequency:L1:1575.42MHz B1:1561.098MHz Sensitivity: Tracking:-165dBm Cold boot:-148dBm Cold boot time:<33s Warm boot time:6s Accuracy:single Positioning:3.0m(2DRMS) SBAS:2.5m
	3G	EVDO/WCDMA/TD-SCDMA
Wireless Transmissio	4G	TD-LTE/LTE-FDD
n	WIFI	Support 802.11 b/g/n(2.4GHz) Support 802.11 ac(5GHz)
	VOIP	Realize the real-time intercoms between center/ terminal and terminal *optional
	USB	1 USB 2.0 port
	SIM/UIM	1xStandard SIM/UIM card slot
Franchica.	LAN	10M/100M/1000M
Function Interface	CAN	2xCAN2.0B
	Serial Interface	2xRS485,2xRS232
	Vehicle Information Collect	Status like speed, ignition, braking, back-off, turn-left, turn-right, and etc.
	Self-defined I/O	4CH input,1CH output
Power	Input	DC8V ~ 36V

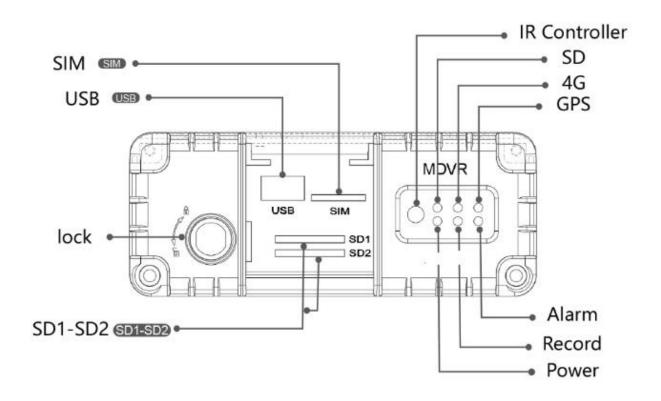
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Items	Device Parameters	Descriptions
	Output	12V@1A,5V@1A
	Consumption	< 9W (No peripheral)
	Working Temperature	-40℃ ~ +85℃
	Working Humidity	10%~ 95%
Physical Property	Protection Grade	IP43
	Dimension(L x W x H)	138 x 171 x 66mm
	Weight	0.985Kg
Certification	Certificates	CE,FCC,ROHS,ISO9001

### 4. Interface Description

Front-interface

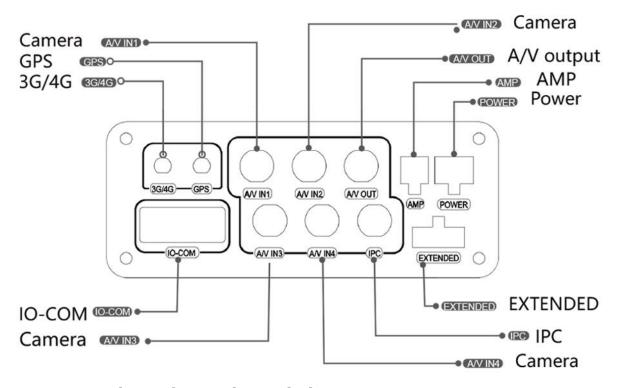


### **Front Panel Interface and Indicator Lights**

Panel	Name	Description
Interface	SD1/SD2	SD card slot, 2 SD card loop recording
Interrace	SIM	3G/4G sim card service
	Power	Red: the power light is bright when it detects
		that there is input power.
	REC	Green: Recording indicator light, the video light
Indicator Lights		is on when the device is recording, no video light
		is off
	SD1/SD2	Green: SD card indicator light, the light is on
		when the SD card is detected, otherwise it is off.
IR	Cable interface	Receiving remote controller button
		SD card and SIM card bezel lock, can not be
Electrical Lock	Electrical Lock	activated without locking the host, open the lock
		host automatically standby

### Rear-interface

# Please note don't connect the IP camera with the AV/IN port,it may cause the device burn!



### **Rear Panel Interface and Descriptions**

Panel Interface	Description
AV—IN1~AV—IN4	4-channel camera audio and video input interface
IPC	1 way IPC camera input interface
AV—OUT	Audio and video output interface
	5-channel IO alarm input, 2-channel alarm output; 2 RS485
IO—COM—SPEED	interfaces,
	2 RS232 interfaces; vehicle pulse speed interface
EXTENDED	Intercom interface, multi-function scheduling screen
AMP/CAN	External amplifier or CANBUS
POWER	Power input interface, DC8-36V
GPS	GPS Antenna
4G	4G Antenna
WIFI	WIFI Box Antenna

### 5. Attention

Please read the following warnings before installing and using the products:

- 1. Easy Installation and Maintenance Process
- 2. The normal working voltage range of the device is DC 8V~36V.

Please note that the power wires should be connected to a direct power source to prevent a short-circuit.

- 3. The device outputs 12V external voltage, which is only used for camera power supply. It is not allowed to connect any non-recommended equipment.
- 4. Connect the ground wire of the correct connection device to the ground wire of the vehicle to form a circuit.
- 5. The equipment should be installed in a dry and ventilated environment to avoid moisture, rain and vehicle cleaning and flushing position, keep the equipment away from heat, dust and strong magnetic field.
- 6. Please install the equipment as far as possible on the vehicle where the vibration is weak, improve the stability of the equipment to prolong the service life.
- 7. Do not stack debris within 20cm around the installation equipment, and do not have heavy objects pressed to ensure the heat dissipation environment.
- 8. The storage devices and modules on the device do not support hot swap. Do not insert or remove storage devices or modules while the device is powered on.
- 9. Please perform regular maintenance on the storage device hard disk or SD card: copy the video data to the computer and format it to protect and extend the performance and service life of the storage device.

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### 6. Quick Setting Connect cable test and start MDVR

The power supply of the main unit has three lines of red, black and yellow. The red and black lines are directly connected to the car battery. The red line is connected to the positive pole, the black line is connected to the negative pole and the yellow line is connected to the ignition line (ACC). If the red and yellow lines are tested indoors, they can be connected together. Positive, then directly powered by DC12V, Check that the power cable is connected properly. Make sure that the key gear hits the LOCK file after the cable is connected, and it will start normally. The power light is blue after normal startup. Connect the output cable AV-OUT to the display and connect the corresponding device to the terminal to confirm that the connection is correct.

The following figure shows the test wiring and the actual loading power supply wiring:

