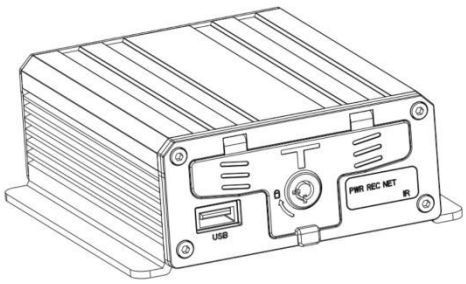
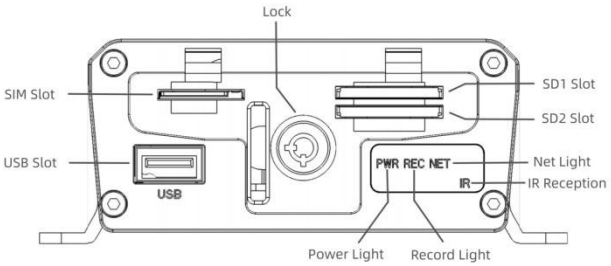
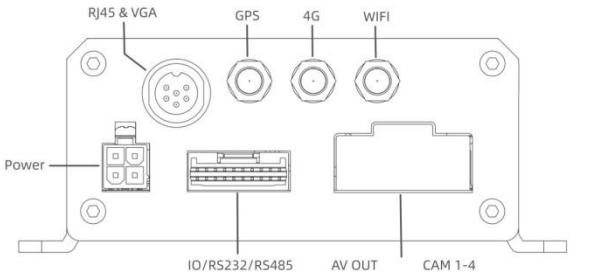
1. Diagram







2. Power Supply Holder Definition

NO.	Color	Marking
1	/	/
2	Yellow	ACC
3	Red	PWR_IN+
4	Black	PWR_IN-

3. Video Input Holder Definition

NO.	Marking	Marking
1	AV OUT	CVBS Connector
2	AV IN1	Camera Connector 1
3	AV IN2	Camera Connector 2
4	AV IN3	Camera Connector 3
5	AV IN4	Camera Connector 4

4. Features Intorduction

This 4CH+1GB+4G+GPS MDVR is a smart Linux vehicle-mounted device with full HD video recording, built-in AI intelligent algorithm, supporting ADAS, DMS, BSD, 360°. It has a compact and portable design with an aluminum alloy casing, light and tight and good heat dissipation.

This 4CH+1GB+4G+GPS MDVR adopts industrialized components, with operating temperature reaching -20°~70°, and operating humidity reaching 20%~90%, it can work normally in harsh environment. This 4CH+1GB+4G+GPS MDVR uses the Linux system, which is more stable than the Android system and has twice the number of disk reads and writes than other dashcams. Real-time audio and video information and GPS data can be transmitted to the CMS platform on cell phones and PCs via 4G and built-in WIFI, and managers can track and manage assets via CMS.

This 4CH+1GB+4G+GPS MDVR supports the use of 2 SD cards for recording. During the driving process, the video information in the field of view is recorded and stored in the SD card, and the video is stored in a loop; it can record images and sounds of the whole process of vehicle driving, providing effective evidence for traffic accidents and protecting your legal rights.

This 4CH+1GB+4G+GPS MDVR is also a very privacy-conscious device. The SD card and SIM card of the device are locked and protected, and the video files in the SD card are encrypted. Even if the SD card is removed, the video cannot be played back. Thi 4CH+1GB+4G+GPS MDVR is equipped with an in-car battery health monitor that can be used to check the status of the battery. When the voltage falls below the safety warning, the driver will receive an alarm alert and stop the car to prevent damage to the car battery.

5. IO Port Output Definition

NO.	Color	Marking
1	Red	5V_OUT
2	Black	GND
3	Red	12V_OUT
4	Black	GND
5	Yellow	MIC_IN
6	Yellow	AOUT_MIC
7	Yellow	SPEKER-
8	Yellow	SPEKER+
9	Black	GND
10	Black	GND

NO.	Color	Marking
11	Green	UART2_232TX/485B
12	Green	UART2_232RX/485A
13	Green	UART1_232TX
14	Green	UART1_232RX
15	White	SENSOR_IN1
16	White	SENSOR_IN2
17	White	SENSOR_IN3
18	White	SENSOR_IN4
19	White	Sensor_out
20	White	ALM_IN

6. Product Function

Item		Parameter
Operation	Language	Chinese/English
	System	Linux
	Interface	Graphical menu operation interface (OSD menu)
Video Recording	Video Input	4-channel 12V video input
	Video Output	Support 1-channel CVBS/VGA output
	Format	PAL、NTSC
	Compression Format	H.264/H.265
	Resolution	Support 1080P、720P、D1、HD1、 CIF
	Image quality	Level 1 to 8, Optimum level 1, minimum level 8
	Mode	Default automatic recording, support timed recording, alarm recording, etc.
Audio	Audio Input	Support 4-channel input, simultaneous recording of sound and video
	Compression Format	G.711A
Alarm Input		4-channel switching inputs, 1-channel emergency alarm input
Alarm Output		1-channel switching output
Serial Input		2-channel RS232, optional 1-channel RS232, 1-channel RS485
Wireless Transfer		Built-in 4G wireless transmission function, TDD-LTE, FDD-LTE
		WIFI: wireless 802.11b/g/n Communication Module
GPS		Support external GPS / BD module, can be reported to JT_808
Sensor		Built-in 3-axis acceleration, optional 6-axis gyroscope sensor
	Memory Card	2x MicroSD Card slot, 512GB max
	Upgrade Method	Support SD-card、U-disk、FTP remote auto-upgrade
	Storage Method	Proprietary bare disk storage method
	SIM connector	Support 1 SIM card port
Video Playback	Video Search	Support search video by video time, video mode and other conditions
	Video Playback	Support 1-4 channel playback, support 2, 4, 8, 16 times speed fast forward or backward, pause

7. Product Parameter

Item		Parameter
Power	Power Management	Adaptive wide range power input. Protection functions for overload, undervoltage, short-circuit and reverse connection.
		Support timed shutdown and delayed shutdown.
	Power Input	DC:+9V～+36V
	Power Output	+12V@1A，+5V@1A
	Power Consumption	Normal working state＜12W（Without peripherals）
Operating Environment	Temperature	-20℃ to +70℃
	Humidity	20%~90%
Security Management	Password Access	User-password, administrator -password, two-level management
Platform Access		JT/T 808-2011, JT/T 808-2019；T/T 905-2014【Optional】
		(private and other protocols supported on a pay-per-project basis)
Product Dimension		120*120*46mm
Weight		450g