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User Manual For

X7 PRO-H0804

Mobile Network Video Recorder

Notice

The information in this manual was current when published. The manufacturer reserves the right to revise and improve its products. All specifications are therefore subject to change without any notice.

The purpose of this manual is to kindly aid the user for the operation for our MDVR. The user should have a basic understanding of computer operation and basic knowledge of how to connect peripherals and make some settings.

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Guarantee & Warnings

1) **Electrical Apparatus Safety**
   All installation and operation should comply with local electrical safety norms.
2) **Transportation**
   In the process of transportation, storage and installation, please avoid heavy stress, violent vibration, impact and water splashing.
3) **Installation**
   Install the equipment in accordance with the requirements, handle carefully. Do not heavily press the equipment before the MDVR installation is finished.
4) **Requirements on Engineers & Technicians**
   All the work of checking and maintenance should be done by qualified technicians and engineers. We do not undertake any responsibility caused by unauthorized modifications.
5) **Requirements on Environment**
   The equipment should be installed and stored in a cool and dry place, away from direct sunlight, flammable or explosive substances, etc. Keep gaps not less than 3cm around the device to facilitate ventilation for cooling.
6) **Accessories**
   Make sure to use accessories from the manufacturer recommended in the attachment.
   Insulate circuit ground and metal shell for all the peripherals.
   Before installation, please open the package and ensure that all parts are included.
   If there are any problems, please contact us as soon as possible.

1. Product characteristics

1.1. Overview

Streamax Mobile NVR X7PRO-H0804 is a multi-functional extensive device specially designed for mobile video surveillance system. It adopts high speed processor and built-in operating system, combining with H. 265 video compression / decompression technology, 4G/3G network technology, GPS locating technology and WIFI technology. It can realize 1080P and 720P high definition. With center software, it also achieves alarm linkage central monitoring, remote management and playback analysis. It is powerful with strong anti-vibration, anti-electromagnetic interference, compact size, flexible installation, 3.5 inch hard disk storage, SD card backup design, easy maintenance and high reliability.

1.2. Features

- The most advanced H.265 video compression/decompression technology in the IT field;
- 4G/3G network technology, GPS positioning technology, WIFI technology (module pluggable);
- Support 1080P/720P resolution recording;
- Support VGA/CVBS heterogeneous video output;
- Support 20-26.1mm hard disk, hard disk heating and hard disk power failure protection technology;
- E-MARK, CE, FCC,EN50155,ROHS certified, comply with the standard of US military standard: MIL-STD-810G;
- Support remote wakeup and IO wakeup;
- Support fire proof box access;
- Support Easy Check (parameter configuration and maintenance);
- Support Gigabit Ethernet port.

1.3. Specifications

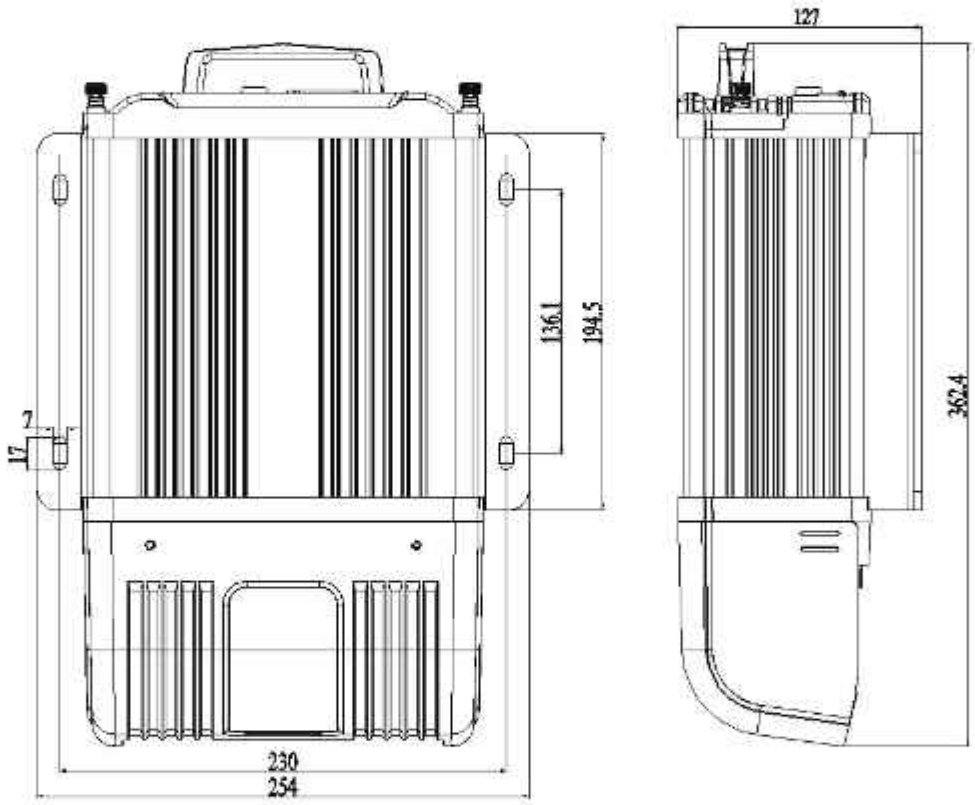
Items		Technical Index
Function Overview		Preview, recording, playback, network, locating
System	OS	Linux 3.18.20
	Control Mode	CP4, Easy Check, network(3G/4G/WIFI) and mouse
Video	Input	4 channels IPC+8 channels AHD
	Output	1 channel CVBS; 1 channel VGA (supports 1080P backward compatible with 720P)
	Total Resource	PAL: 8x720P@25fps(AHD)+4x1080P@30fps(IPC) Or 8x1080P@10fps(AHD)+4x1080P@30fps(IPC) NTSC : 8x720P@30fps(AHD)+4x1080P@30fps(IPC) Or 8x1080P@15fps(AHD)+4x1080P@30fps(IPC)
Audio	Input	8 channels
	Output	2 channels
Display	Display Split	1/4/9 Image display

	OSD	Locating, alarm, license plate, speed and date/time
	Operation Interface	Graphical user interface
Recording	Video/Audio Compression	Video:H.265/H.264
		Audio: ADPCM, G.711U
	Image Resolution	PAL: 1080P,720P,WD1(928X576),WHD1(928X288), WCIF(464X288),D1(704X576),HD1(704x288), CIF(352x288); NTSC: 1080P,720P,WD1(928X480),WHD1(928X240), WCIF(464X240),D1(704x480),HD1(704x240), CIF(352x240); Digital: 1080P(1920X1080),720P(1280X720).
	Image Quality	8 levels adjustable (1 is the best)
	Recording Mode	Boots up/schedule/alarm event recording
	Pre-recording	0-60 minutes
	Post-recording	0-30 minutes
Playback	Playback Channel	Local: supports 1/4/9 channels (single channel main stream, multi-channel sub stream)
		WEB: supports 1/4/9 channel synchronous playback
	Search Mode	Date/time, channel, event
Network	Wire	LAN:1000M/100M(RJ45 without light)
	Wireless	WIFI: supports 802.11b/g/n/ac
		3G/4G: Supports one (support remote wake-up)
Locating	GPS	Location tracking, speed detection and time sync
Sensor	G- Sensor	Built-in six -axis inertia sensor
Storage	HDD/SSD	1 x3.5 "SATA HDD Compatible with 20 ~ 26.1mm, supports hard disk heating
	SD card	Supports SDXC 32GB /64GB/128GB/256GB, Hot-plugging
Interface	USB	1 x USB2.0 (Type A) + 1 x USB2.0 (Type B)
	eSATA	1 x eSATA
	SD	1 x SD card slot
	SIM	1 x PUSH-PUSH SIM card slot
	Serial interface	2 x RS232, 2 x RS485
	CAN	2 x CAN
	Sensor	8 inputs, 2 outputs
	Pulse Speed Detection	1 channel
	Control panel	CP4
	Intercommunication	One MIC port (CP4)
Power	Input	DC8-36V
	Output	5V@500mA & 12V@500mA

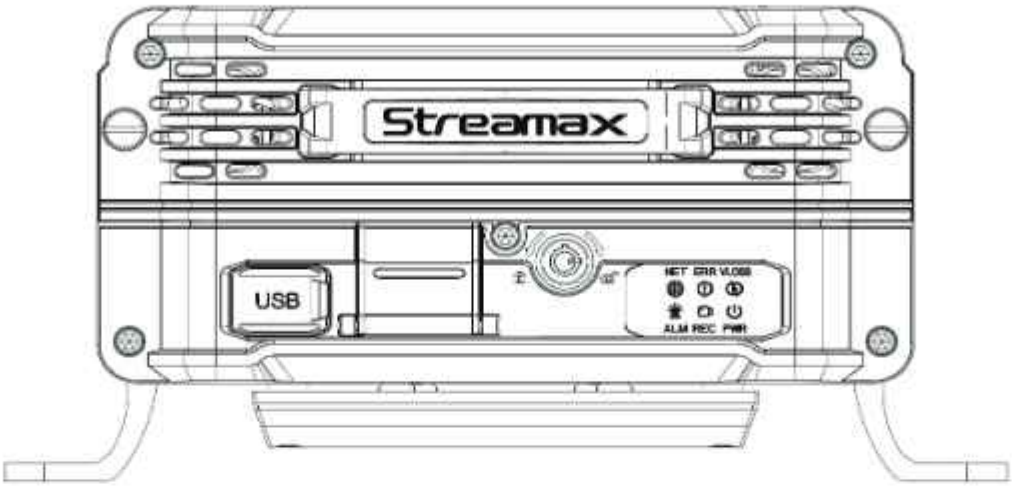
	Max. power consumption	73W
	Standby power consumption	≈0W
Physical Characteristic	Dimension (L x W x H)	362.4x 254 x 127mm (with rear cover and shelves)
Operating Environment	Temperature	-40°C~ +85°C (storage); -40°C~ +70°C (with heating)
	Relative Humidity	8%~90%

1.4. External Interface

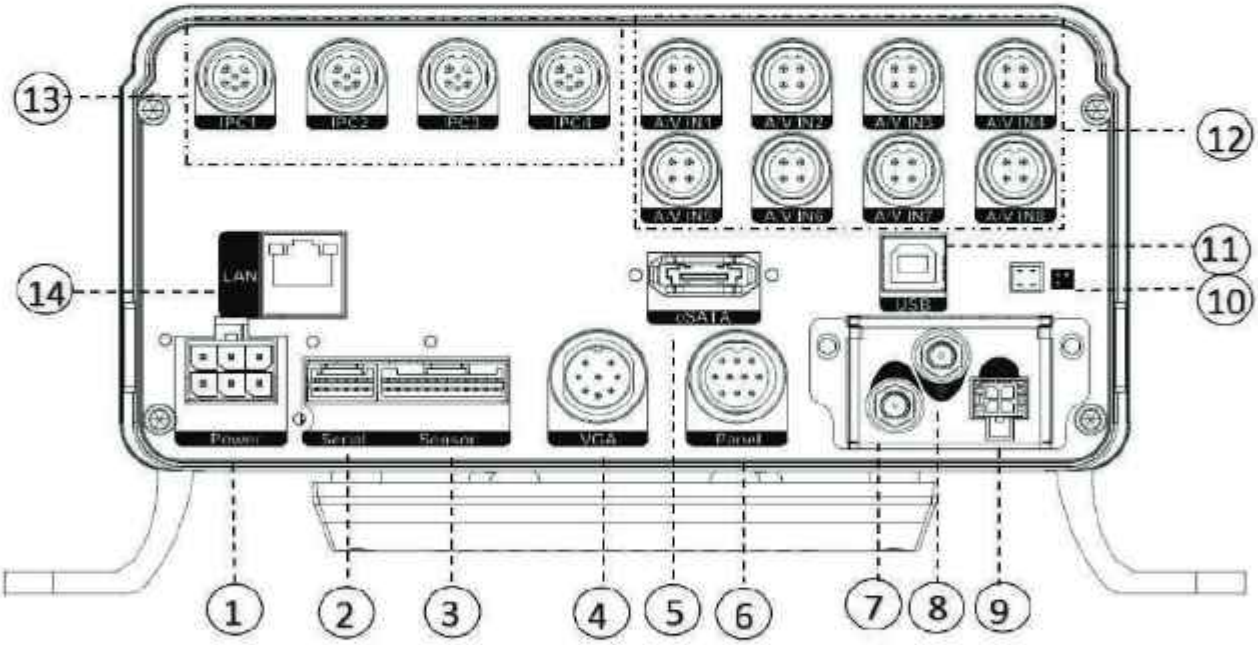
Dimension (Unit: mm)



Front Panel



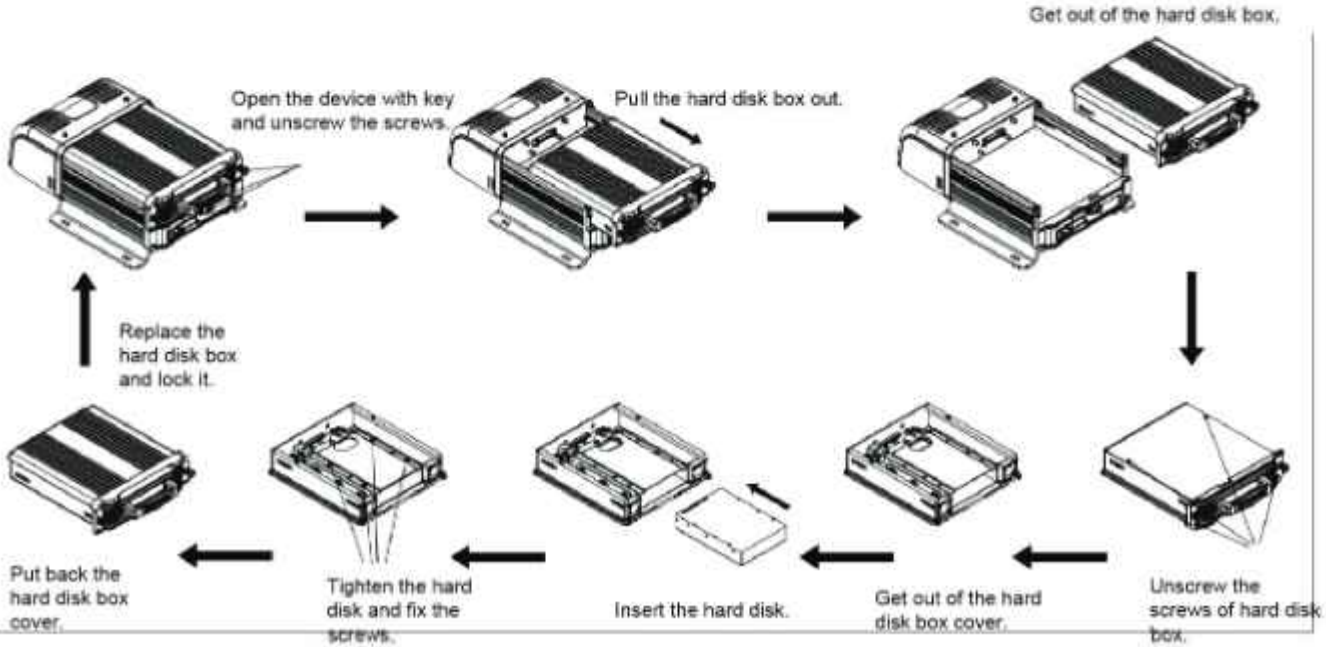
Rear Panel



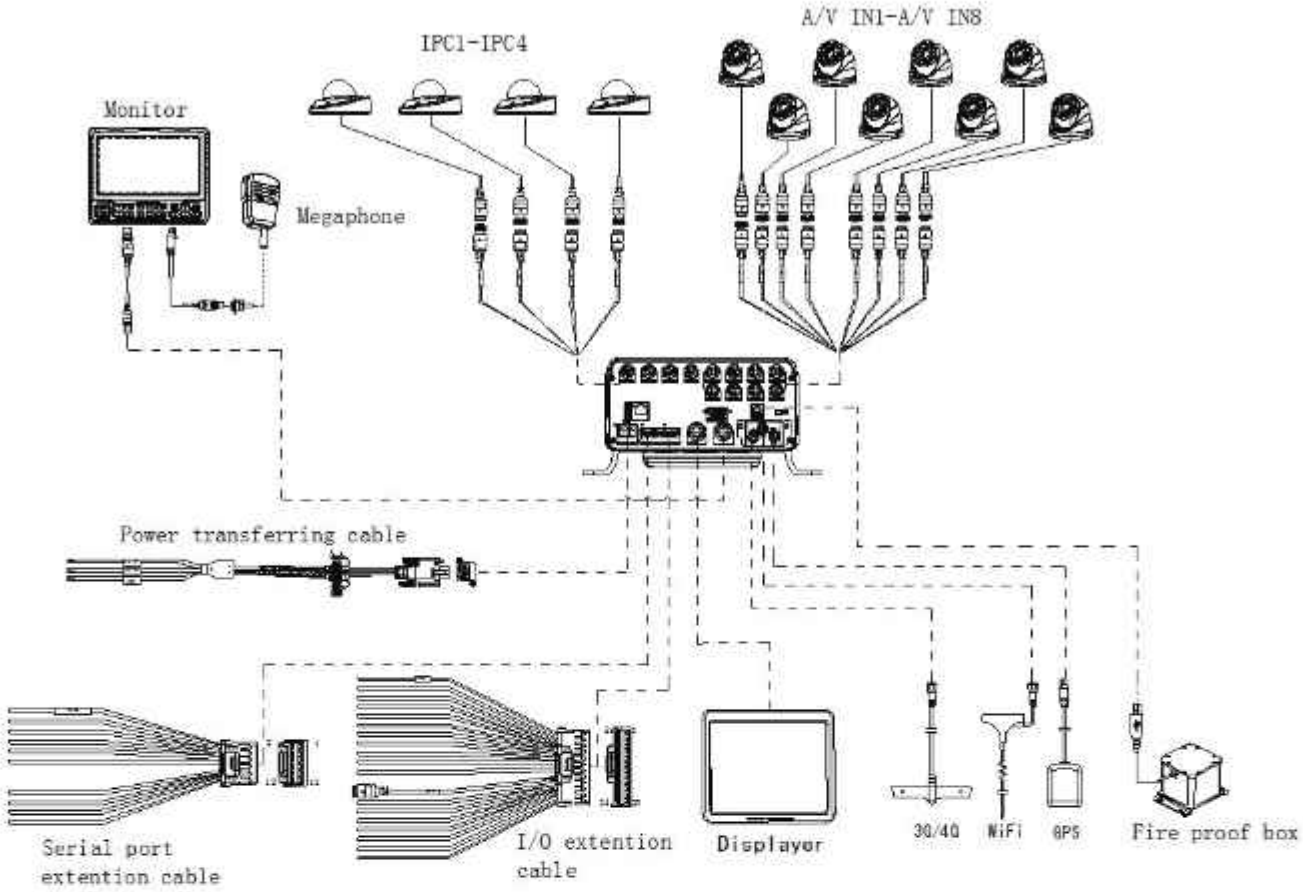
No.	Print	Description
1	Power	DC8-36V power input
2	Serial	Serial interface
3	Sensor	Sensor interface

4	VGA	VGA video interface
5	eSATA	eSATA interface
6	Panel	Control Panel (CP4) interface
7		3G / 4G antenna interface
8		WIFI antenna interface
9		GPS antenna interface
10		Print serial interface
11	USB	USB 2.0 interface (type-B)
12	A/V IN 1~8	AHD interfaces 1 to 8
13	IPC 1~8	IPC interfaces 1 to 8
14	LAN	RJ45 (10/100/1000M) network port

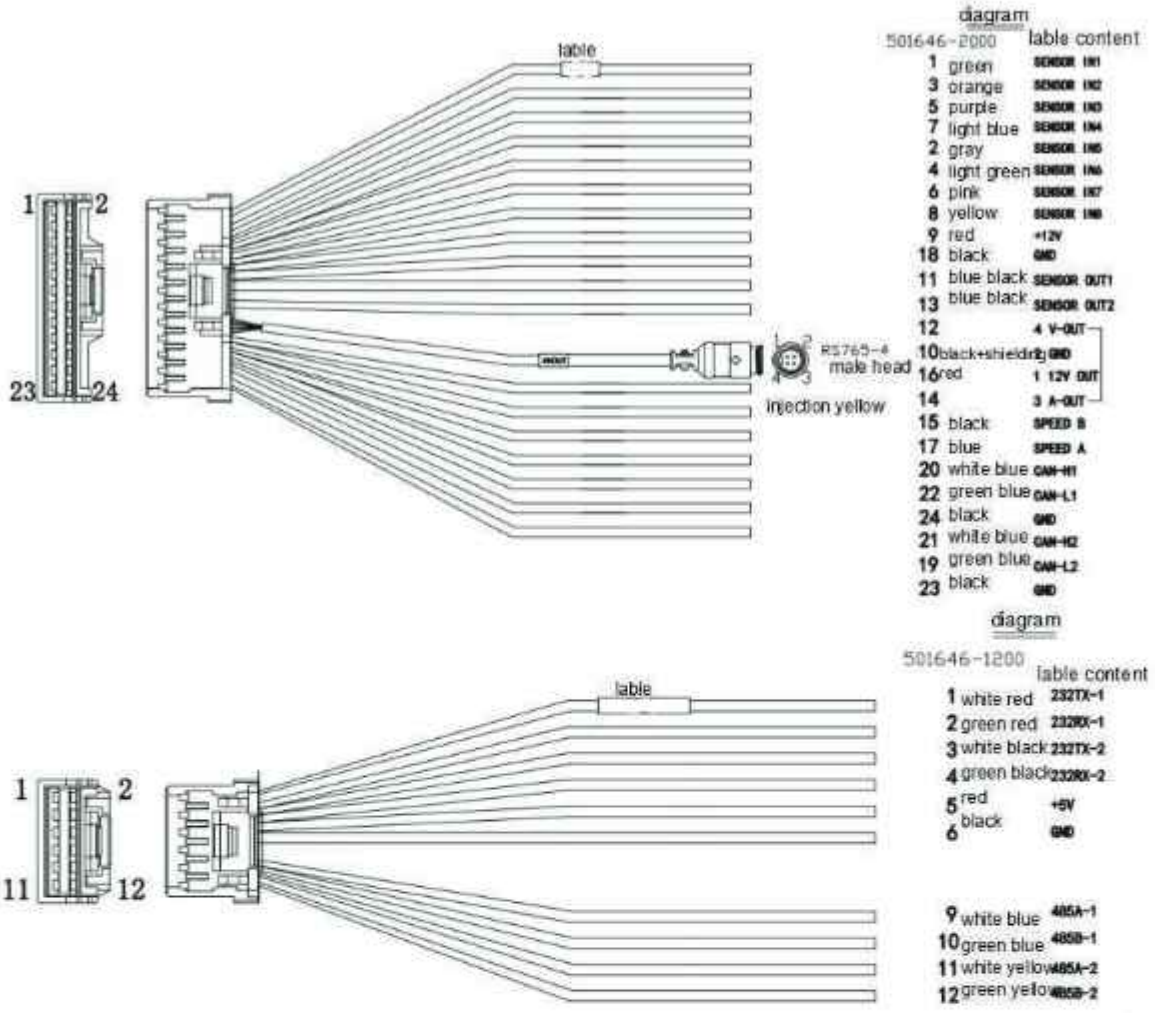
1.5. HARD DISK INSTALLATION INSTRUCTION



1.6. System diagram



1.7. External cable interface definition



2. FAQ

1) The system can't start?

Usually this problem results from the incorrect power connection. Please follow below steps to check the power connection:

1. Check the input power, whether the power wire is connected correctly, whether the ground wire is connected back to the battery, and whether the fuse on the power wire is in good condition.
2. Check whether the ACC signal wire input to the power is with voltage higher than 7.5 V.
3. Check whether the device key is closed.

2) The MDVR restarts uninterruptedly?

Please follow below steps to check it:

1. Check whether the voltage of MDVR is insufficient. If the voltage is less than the start-up voltage of the device, the device would always restart.
2. The problem in hard disk/SD card may cause the failure to start. Take off the storage part and check whether it is broken down.

3) The device can't record?

Usually this problem results from the storage disk or camera. Please follow below steps to check it:

1. Check whether the storage disk is installed, whether it is in good contact, and whether the disk can be read normally in computer.
2. Check whether the storage disk is formatted. The storage disk should be formatted before normally storing record files.
3. Check whether there is video signal input into the device from camera, and whether there is video/image on the screen.

4) There is no voice in record file?

Please follow below steps to check it:

1. Check whether there is an external pickup, or whether the camera features with the function of audio collection.
2. Access to Video Channel Settings, check if Audio is set on.
3. There must be video input into the channel for recording and it must record normally.

5) The GPS works abnormally?

Please follow below steps to check it:

1. Check whether the GPS antenna is installed correctly. There is a silk print logo on the GPS antenna holder behind the host device.
2. Check whether the antenna receiver is sheltered. It should not be covered by any stuff, which may cause it not to receive signals.
3. Environmental influence such as tree shades, being inside tunnel, driving near tall building or elevated roads, thunderstorms or other weather influence, etc. can also cause signal loss or receiving wrong signals.

6) The device can't shutdown in ignition switch mode?

1. Check if the ACC line connection mode is correct; and check whether there is voltage on ACC yellow line when the key is turned off.
2. If the device has been set with schedule recording, it can't shutdown if it is still during recording time of the task table.