



User Manual For M1-SH0401 MDVR Mobile Digital Video Recorder

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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

OVERVIEW

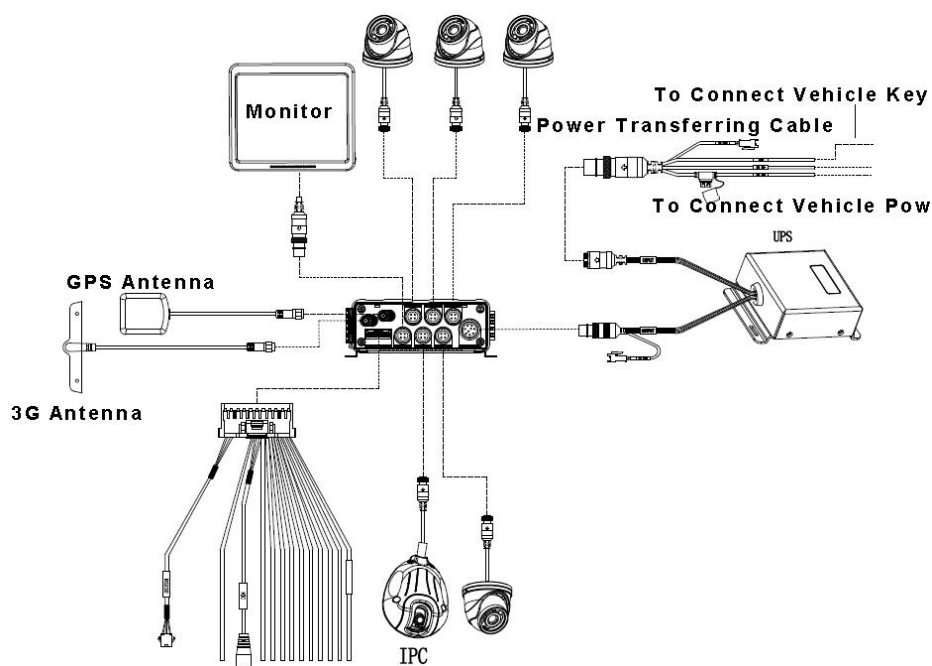
Streamax M1-SH0401 is a functional Mobile Digital Video Recorder specially designed for vehicle video surveillance and remote monitoring. It has a high-speed processor and embedded operating system, combining with the most advanced H.264 video compression / decompression technology, 3G/4G network, GPS positioning technology, as well as WIFI. It supports not only video recording in 720P, WD1, WHD1, WCIF, D1, HD1 and CIF formats, but also vehicle travel information recording and wireless data upload. With center software it also achieves alarm linkage central monitoring, remote management and playback analysis. It is easy to use with simple design, multi-functions, superior anti-vibration, flexible installation and high reliability.

SPECIFICATIONS

Function Overview		Preview, Recording, Playback, Network, Locating
System	OS	Linux 3.0.8
	Control Mode	Easy Check, network, CP4, mouse (3G/4G/WIFI)
Video	Input	4 channels WD1+1 channel 720P
	Output	1 channel
	Total Resource	(4x25)FPS WD1 @ PAL / (4x30)FPS WD1 @ NTSC +30FPS 720P
	Video Signal Standard	Electrical level: 1Vpp Impedance: 75Ω NTSC/PAL Optional
Audio	Input	5channels (1 channel IPC audio input)
	Output	1 channel
	Audio Signal Standard	Electrical level: 2Vpp Input impedance: 4.7kΩ
Display	Display Split	1/4/9
	OSD	GPS information, alarm, vehicle No., speed, date/time
	Operation Interface	Semi-transparent GUI
Recording	Video/Audio Compression	Video: H.264
		Audio: ADPCM, G.711A G.711U
	Image Resolution	Analog: PAL: WD1(928X576),WHD1(928X288), WCIF(464X288),D1(704X576), HD1(704x288), CIF(352x288); NTSC: WD1(928X480),WHD1(928X240), WCIF(464X240),D1(704x480), HD1(704x240), CIF(352x240); Digital:

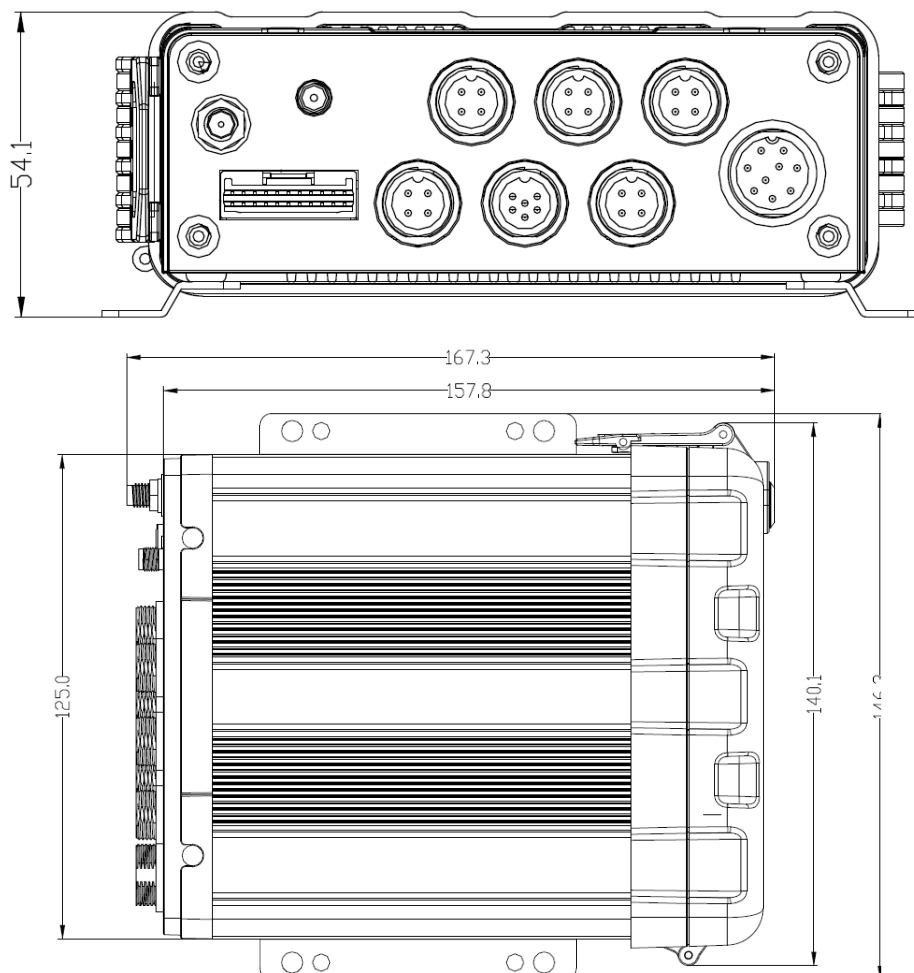
		720P(1280X720);
	Image Quality	1-8 levels adjustable (1 is the best)
	Recording Mode	Boot up/Manual/Schedule/Alarm
	Pre-recording	0-60minutes
	Post-recording	0-30 minutes
	Mirror/Dual Recording	Support
Playback	Playback Channel	1 channel by local playback
	Search Mode	Date/time, channel, event
Network	WIFI/3G/4G(Optional)	802.11b/g/n/EVDO/WCDMA/TDD-LTE/FDD-LTE
	IPC Ethernet	6-pin DJ M12(100M x 1, PON power supply)
Locating	GPS	Location tracking, speed detection and time sync
Storage	SD	SD card x 2
Interface	USB	USB2.0 x 1
	RS232	RS232 x 1
	Sensor	8 inputs, 2 outputs
	Speed	1 channel pulse speed detection
	Intercommunication	I MIC interface
Power	Input	DC8-36V, Ignition signal
	Output	5V@500mA
	Max Power Consumption	29W
	Standby Power Consumption	≈0W
Physical Characteristic	Dimension (L x W x H)(mm)	167.3 x 146.3 x 54.1
	Weight	0.83Kg
Environment	Operating Temperature	-40℃- +70℃
	Operating Relative Humidity	8%-90% (No Condense)

SYSTEM DIAGRAM

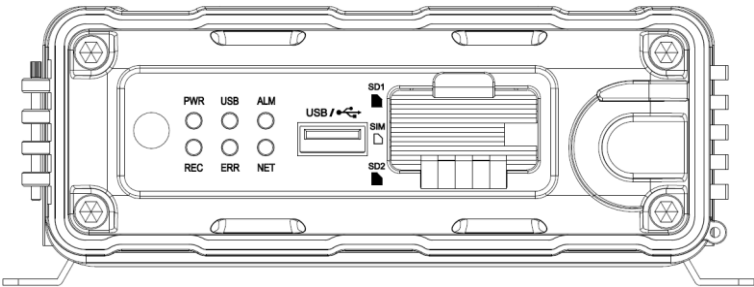


EXTERNAL INTERFACE

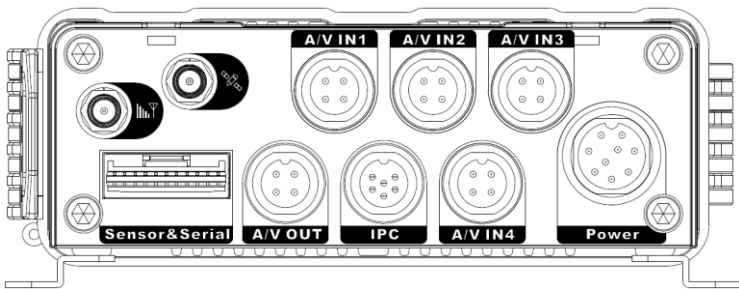
DIMENSION (Unit: mm)





FRONT PANEL



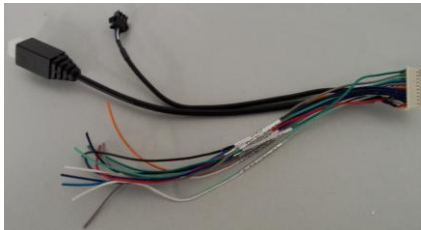
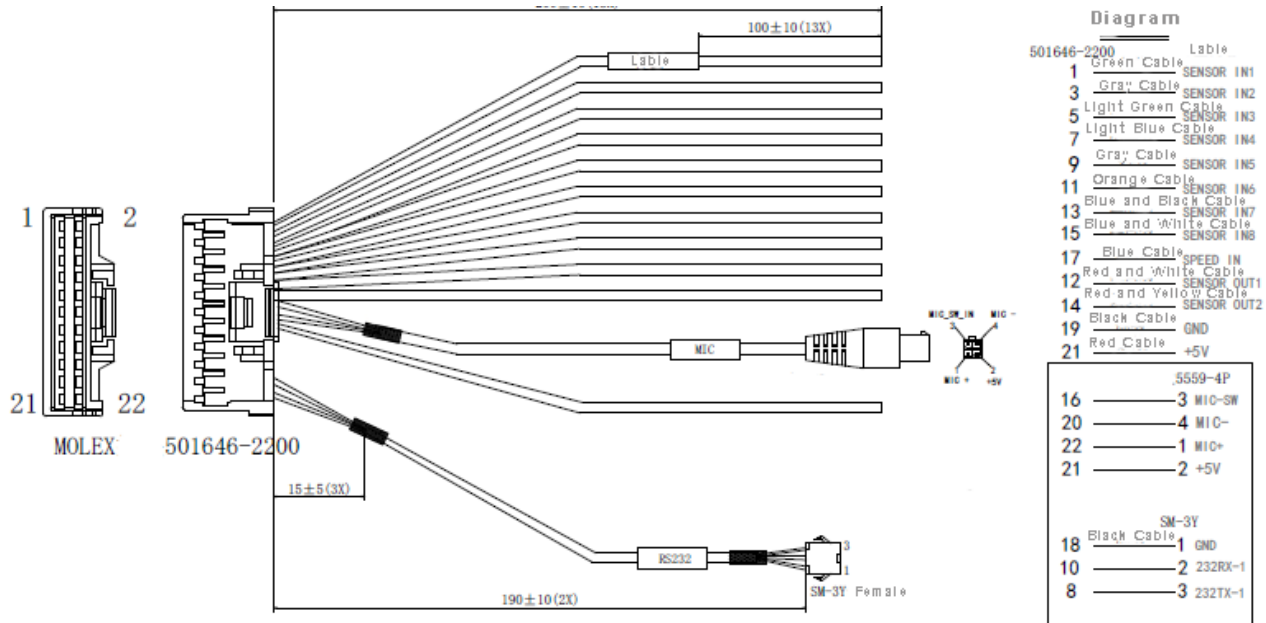
REAR PANEL



Serial No.	Print	Description
1	Power	DC 8-36 V Power Input
2	Sensor&Serial	The Interfaces of Serial Port and Switch
3	A/V IN1~4	Audio & Video Input 1-4
4	A/V OUT	Audio & Video Output
5	IPC	The Interface of PON Power Supply
6		GPS Antenna Interface
7		3G/4G/WIFI Antenna Interface

DEFINITION AND PICTURES OF EXTERNAL CABLES

ALARM CABLE DEFINITION



Alarm and Serial Cables



A/V OUT Cable

2. FREQUENTLY ASKED QUESTIONS

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 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?**
Please follow below steps to check it:
 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.