

SD-300 SPEC



Overview

SD-300 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, network, as well as GPS positioning technology. It supports video recording in 1080P,720P,AHD, WD1, HD1 and CIF formats. It is powerful with flexible installation, easy maintenance and high reliability such advantages.

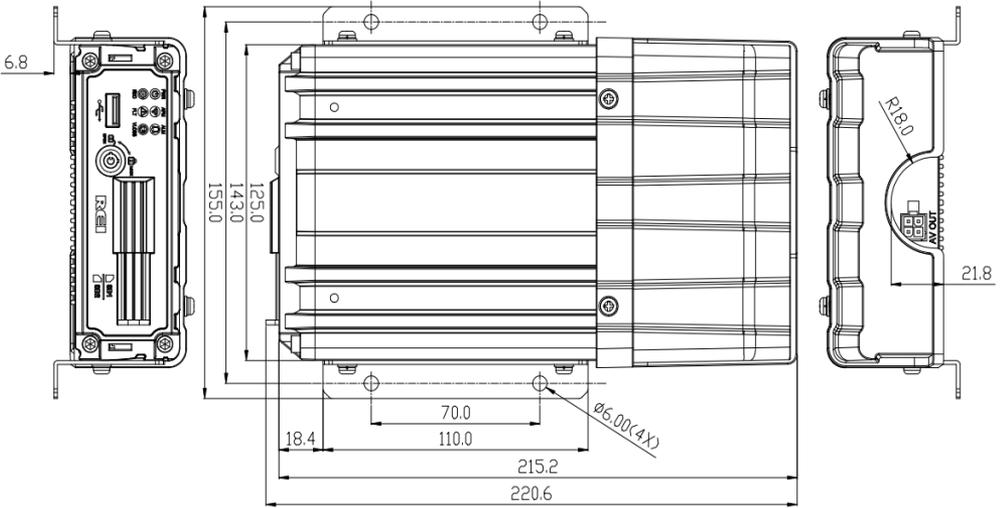
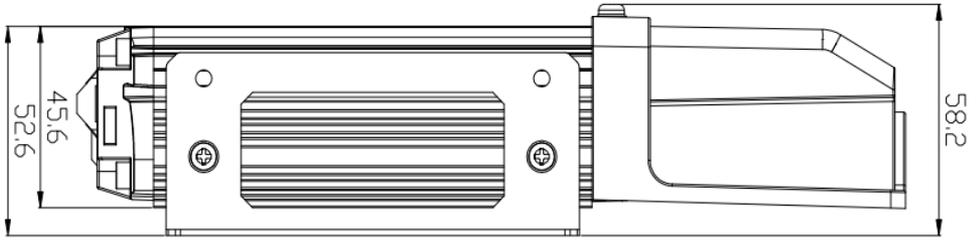
Spec

| Function Overview | | Technical Detail | |
|-------------------|-----------------------|---|-------|
| Model | | SD-300 | |
| Function | | Preview, Record, Playback, Locating | |
| System | OS | Linux 3.0.8 | |
| | Control Mode | Mouse, Easycheck, WIFI | |
| Video | Input | 2*AHD (720P) +1*IPC (1080P) | |
| | Output | 1 channel | |
| | Total Resource | (2x30)FPS 720P+30FPS 1080P (IPC) | |
| | Video Signal Standard | Electrical level: 1Vpp Impedance : 75Ω | |
| Audio | Input | 3CH (1 channel IPC audio input) | |
| | Output | 1 channel | |
| | Audio Signal Standard | Electrical level: 2Vpp Input impedance: 4.7kΩ | |
| Display | Display split | 1,2,3 channel split | |
| | OSD | GPS information, alarm, vehicle No., speed, date/time | |
| | Operation Interface | Semi-transparent GUI | |
| recor | Video/Audio | Video | H.264 |

| | | | |
|-------------------------|-----------------------------|---|---------------------|
| d | Compression | Audio | ADPCM、G.711A G.711U |
| | Image Resolution | NTSC: 720P(1280X720), WD1(928X480),WHD1(928X240), WCIF(464X240),D1(704x480), HD1(704x240),CIF(352x240); IPC: 1080P(1920X1080),720P(1280X720); | |
| | Image quality | 10%-100% adjustable (10% per level, 100% is the best) | |
| | Record mode | By booting | |
| | Alarm pre-record | 0-300S | |
| | Alarm record delay | 0-1800S | |
| Playback | channel | Single channel and multiple channel | |
| | Mode | By time, channel and event | |
| network | 3G/4G | Not support | |
| | WIFI | Support IEEE 802.11b/g/n , single antenna | |
| | IPC Ethernet | 6 pin Chogori connector (100M*PON) | |
| location | GPS | External ,location tracking, speed detection and time sync | |
| storage | SD | 2 x SD card slot | |
| interface | USB | 1 x USB2.0 | |
| | RS232 | 1 x RS232 | |
| | Panic Button | 1 channel input and 1 channel output | |
| | Serial port | 7 channels output, 1 channel input | |
| power | input | DC 8-32V, ACC | |
| | output | 5V@500mA | |
| | Max Power Consumption | 25W | |
| Physical Characteristic | Size (mm) | 220.6 x 155.0 x 52.6 | |
| | Weight (Kg) | 0.84 | |
| Environment | Operating Temperature | -40°C~+70°C (without SD card) | |
| | Operating Relative Humidity | 8%-90% (No Condense) | |

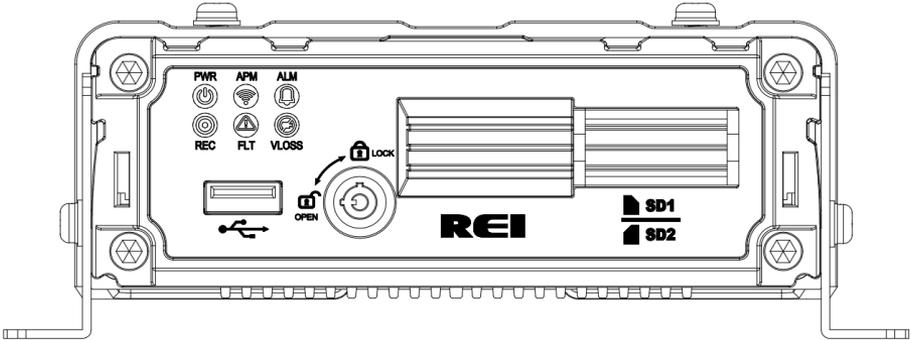
Size

unit: mm

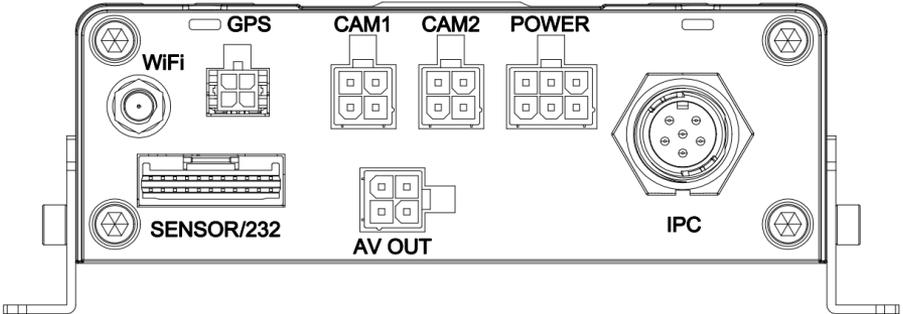


Interface

Front panel:



Rear panel:



| No | Screening | Note |
|----|------------|------------------------------|
| 1 | POWER | DC8-32V power input |
| 2 | SENSOR/232 | Serialport |
| 3 | CAM 1~2 | Analog camera 1~2 |
| 4 | AV OUT | Analog A/V output |
| 5 | IPC | PON*chogori connector IPC |
| 6 | GPS | External GPS interface |
| 7 | WiFi | WIFI antenna |

Troubleshooting

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.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radiofrequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance

could void the user's authority to operate the equipment.

This device complies with Part

15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

RF Exposure Warning Statements:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment shall be installed and operated with minimum distance 20cm between the radiator & body.