

MDVR Demo Link: http://58.250.161.99:7260 Username: daksham Password: 123456



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5 Points to Determine a Critical Mobile DVR

1) Power supply

As a mobile DVR can only be located on the vehicle, its power supply must be drawn from the vehicle as well. In vehicles, the voltage is currently 12V, 24V, 110V, and is not as stable as that of indoor locations, especially during engine start-up and braking when voltage can fall to 9V or less. This creates a very unstable power supply. Electronics are very sensitive to power surges and spikes, and equipment fails quickly if they are not handled properly. Additionally, the mobile DVR acts as a hub that stabilizes power for sensors and cameras. However, some manufacturers use low-quality power supplies to reduce costs, but this inevitably shortens the life span of their products. So, indentifying a mobile DVR with an excellent power supply is crucial. Here we list some international standards relating to power systems for your reference: ISO 7637-2: 2004, JASO D001-94, SAE-1455. Customers can refer to these standards when buying mobile DVRs.

2) Anti-vibration mechanism

Since vehicles are constantly in motion, vibration is inevitable. Constant vibration leads to mechanical failure if it is not considered during design. One of the factors that sets rival products apart is the materials used for anti-vibration mechanisms. Most manufacturers use rubber to contain vibration since use of rubber lowers production costs. However, it deteriorates over time. Generally, rubber guarantees performance in short time frames but is susceptible to heat and cold, which softens or hardens the rubber. Higher-end mobile DVRs use wire rope, which ensures performance regardless of external factors.



3) Dust prevention and heat dissipation

Mobile DVRs are generally installed in confined spaces and compartments. This exacerbates the problem of heat dissipation because mobile DVRs are required to operate for a long time in such a confined environment. The challenge here is twofold. If you try to fit fans to the DVR, you will inevitably leave an opening in the enclosure and make it more vulnerable to dust. For this reason, fans are not acceptable for mobile DVRs, and an alternative approach must be considered. Aluminum is the preferred material for enclosures as it allows heat to dissipate even when it is completely sealed in. Low-cost mobile DVRs may use aluminum alloys instead of pure aluminum to reduce costs, but they will prove incapable of handling dust and heat adequately.

4) Solid interface

Due to the constant vibration on and within vehicles, a solid interface which combines devices is crucial to ensure a continuous and stable running environment. A BNC interface is standard for regular DVRs but it is not suitable for mobile DVRs since the BNC interface can easily loosen due to frequent bumps. A high-end mobile DVR adopts a solid aviation specification interface, it can sustain vibration, ensuring continuous transmission of power, signals and other data without failure. However, some manufactures use a common aviation specification interface which is not eco-friendly and is not sufficiently solid; such interfaces can easily break down over time.

5) Data transmission

In the past, transmission was the weakest link for many mobile DVRs but this has changed due to advances in wireless technologies. Previously, innovation in mobile DVRs was slow as the limited transmission options constrained how manufacturers could add value for users. Even Wi-Fi was not as significant as some thought it would be due to its Bandwidth fluctuation. The availability of 3G networks has enabled a wide variety of new functions. For example, it was not previously practical to transmit data collected from the vehicle in real-time, such as video, location, brake signals, speed and inertial measurements. However, all of this can be achieved in a mobile DVR.

Source: Internet



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Models Available

Model	Recoding	Storage	Capacity	3G	GPS	WIFI	Alarm
SS-MDVR-X04-ADC	4CH @ D1	SD Card	64 GB x 2	N.A.	Optional	N.A.	4/2
SS-MDVR-X04-SDC	4CH @ D1	SD Card	64 GB	Optional	Optional	Optional	6/2
SS-MDVR-X04-HDC	4CH @ D1	2.5" HDD	1 TB	Optional	Optional	Optional	6/2







SS-MDVR-X04-ADC GPS (Optional)

Video and Audio Parameters		
Video Input	4 Channels (Aviation-din X4)	
Video Output	1 Channels (Aviation-din X4 or RCA)	
Video Recording	4CH @ D1 (704 x 576)	
Video Playback	1CH (Local), 4CH (Software)	
Audio Input	4 Channels (Aviation-din X4) (≥ 6 FPS)	
Audio Output	1 Channels (Aviation-din X4 or RCA)	

Other Parameters		
Recoding Media	SD Card x 2 Slots	
Maximum Capacity	64GB Per Slot	
SD Card Interface	Mirror Recording / Cyclic Recording	
USB Port	1	
Alarm I/O	4/2	
Backup Modes	USB2.0	
Dimensions (L x H x W)	142 x 145 x 55mm	
Weight	0.67 KGs	





SS-MDVR-X04-SDC 3G/GPS/WIFI (Optional)

Video and Audio Parameters		
Video Input	4 Channels (Aviation-din X4)	
Video Output	1 Channels (Aviation-din X4 or RCA)	
Video Recording	4CH @ D1 (704 x 576)	
Video Playback	1CH (Local), 4CH (Software)	
Audio Input	4 Channels (Aviation-din X4) (≥ 6 FPS)	
Audio Output	1 Channels (Aviation-din X4 or RCA)	

Other Parameters		
Recoding Media	SD Card	
Maximum Capacity	64GB	
USB Port	1	
Ethernet Port	10/100 MB	
Alarm I/O	6/2	
Backup Modes	USB2.0, Network	
Dimensions (L x H x W)	174 x 160 x 54mm	
Weight	1.8 KGs	





SS-MDVR-X04-HDC 3G/GPS/WIFI (Optional)

Video and Audio Parameters		
Video Input	4 Channels (Aviation-din X4)	
Video Output	1 Channels (Aviation-din X4 or RCA)	
Video Recording	4CH @ D1 (704 x 576)	
Video Playback	1CH (Local), 4CH (Software)	
Audio Input	4 Channels (Aviation-din X4) (≥ 6 FPS)	
Audio Output	1 Channels (Aviation-din X4 or RCA)	

Other Parameters	
Recoding Media	2.5" Laptop HDD
Maximum Capacity	1 TB (1000 GB)
USB Port	1
Ethernet Port	10/100 MB
Alarm I/O	6/2
Backup Modes	USB2.0, Network
Dimensions (L x H x W)	191 x 190 x 71mm
Weight	1.8 KGs



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<u>Remote Surveillance</u>

Monitor the video of the cameras Installed in the Taxis using the 3G Mode. Live monitoring can be done on CMS or Mobile Application.

Fleet Management

You can track the real-time location of the Taxis using GPS + 3G Modes. This can help in better fleet Management.

• Emergency Response

Panic Button can be installed in the Taxis and in case of Medical or Safety Emergency, command can be sent to Control Room via 3G Mode

Data Management

When the Taxis reach the Control Station, the video files can be Auto Downloaded via WIFI to ADS Server for quick reference.

• Geo-Fencing Mode

Area in which the Taxi is operated, Can be limited via Google Maps, Alert will be sent when Taxi leaves Outside the fencing area

<u>SMS & Email Alerts</u>

- Dual Stream Technology
- Over Speeding Alerts
- <u>Rash Driving Alerts</u>
- Broadcast VOIP to Driver





<u>Surveillance & Location</u>

Monitor the video of the cameras Installed in the Bus using 3G and Know real-time location of bus using GPS. Monitoring can be done on CMS or Mobile Application.

<u>Updates to Parents</u>

RFID can be installed in Bus. When Student Shows the RFID Card then SMS Alert will be Sent to parent so they can keep track of Children

• Emergency Response

Panic Button can be installed in the Bus and in case of Medical or Safety Emergency, command can be sent to Control Room via 3G Mode

Data Management

When the Bus reaches the School, the video files can be downloaded Automatically via WIFI to ADS Server for quick reference.

Geo-Fencing Mode

Area in which the Bus is operated, Can be limited via Google Maps, Alert will be sent when Bus leaves Outside the fencing area

Over Speeding Alerts

- <u>Rash Driving Alerts</u>
- Broadcast VOIP to Driver
- **Dual Stream Technology**
- Drop-Point Announcement





• Surveillance & Location

Monitor the video of the cameras Installed in the Police car using 3G and Know real-time location of car using GPS. Monitoring can be done on CMS or Mobile Application.

<u>Call for Backup</u>

Panic Button can be installed in the Car and in case of Emergency, command can be sent to Control Room via 3G Mode to call for Backup.

• On-Site Recording Proof

One Camera can be installed in angle of the Dashboard. This camera has to be True WDR Camera. Hence, On Board camera can be used for proof.

Data Management

After finishing the patrolling, when the Police car comes back to base, all the video files can be auto downloaded to the ADS Server via WIFI.

<u>Set Patrolling Area</u>

Patrolling area in which the Police Car Should patrol can be limited via Google Maps, Alert will be sent when Car leaves Outside the fencing area

Over Speeding Alerts

- <u>Rash Driving Alerts</u>
- Broadcast VOIP to Officer
- Dual Stream Technology





<u>Surveillance & Location</u>

Monitor the video of the cameras Installed in the Bus using 3G and Know real-time location of bus using GPS. Monitoring can be done on CMS or Mobile Application.

Fare Collection

RFID Cards can be issued to regular Users of the Bus Service. Money Top-up can be done in card and when Card is shown at Gate Of bus, Fare will be deducted from Card.

• Emergency Response

Panic Button can be installed in the Bus and in case of Medical or Safety Emergency, command can be sent to Control Room via 3G Mode

Data Management

When the Bus reaches the School, the video files can be downloaded Automatically via WIFI to ADS Server for quick reference.

Geo-Fencing Mode

Area in which the Bus is operated, Can be limited via Google Maps, Alert will be sent when Bus leaves Outside the fencing area

Over Speeding Alerts

- <u>Rash Driving Alerts</u>
- Broadcast VOIP to Driver
- **Dual Stream Technology**
- Drop-Point Announcement





<u>Remote Surveillance</u>

Monitor the video of the cameras Installed in the Vans using the 3G Mode. Live monitoring can be done on CMS or Mobile Application.

Location Tracking

You can track the real-time location of the Vans using GPS + 3G Modes. This can help in better fleet Management.

• Emergency Response

Panic Button can be installed in the Vans and in case of Medical or Safety Emergency, command can be sent to Control Room via 3G Mode

Data Management

When the Vans reach the Bank Head Office, the video files can be Auto Downloaded via WIFI to ADS Server for quick reference.

• Geo-Fencing Mode

Area in which the Van is operated, Can be limited via Google Maps, Alert will be sent when Van leaves Outside the fencing area

<u>SMS & Email Alerts</u>

- Dual Stream Technology
- Over Speeding Alerts
- <u>Rash Driving Alerts</u>
- Broadcast VOIP to Driver



Thank You

