

## Product Features

**Option 1** Support 2 channels 1080P AHD (DSM & ADAS) + 2 channels 1080P AHD / 960P AHD / 720P AHD / 960H / D1 / CIF + 1 channel IPC (720P /1080P) Video input

**Option 2** 4 channels 1080P AHD / 960P AHD / 720P AHD / 960H / D1 / CIF + 1 channel IPC (720P /1080P) Video input

- Auto detecting & matching for all analog cameras
- Support ADAS+DSM (optional)
- Support Blind Spot Detection cameras (optional)
- Support 360° Panoramic combined cameras (optional)
- Accept HDD/SSD up to 2 TB Storage, and 1 SD card (up to 256GB) for backup
- Support GPS, 4G and Wi-Fi (5.8 Ghz)
- Support an integrated 3 axis accelerometer (G-Sensor) and 3 axis gyroscope, to detect crash, harsh breaking, acceleration and cornering
- WIFI automatic download
- Anti-Vibration and Anti-Shock under acceleration of 40G (MIL-STD-810G standard)
- Hard drive automatic heating startup in -40°C weather
- On board UPS 8 seconds delay power-off for data protection
- Operating temperature -40°C up to +80°C
- 8V-36V wide voltage power supply

## AI Algorithm

MVR-DSM	Yawning Detection
	Eyes Closing Detection
	Smoking Detection
	Making Phone Calls Detection
	Distraction Detection
	Driver Absence Detection
	Camera Blocked Detection
	Wearing Glasses Detection
	Lane Departure Warning
	Safe Distance Warning
MVR-ADAS	Froward Collision Warning
	Pedestrian Collision Warning
<b>BSD (Optional)</b>	Support Blind Spot Detection Cameras (2 channels)
<b>360° Panoramic Viewing System (Optional)</b>	Support Panoramic Combined cameras (4 channels)

## Video & Audio

<b>Video Input</b>	Option1: Support 2 channels 1080P AHD (DSM & ADAS) + 2 channels 1080P AHD / 960P AHD / 720P AHD / 960H / D1 / CIF + 1 channel IPC (720P /1080P) Video input Option2: 4 channels 1080P AHD / 960P AHD / 720P AHD / 960H / D1 / CIF + 1 channel IPC (720P /1080P) Video input
<b>Video Output</b>	3 Channels (Front Panel 3.5mm Jack, Rear Panel on 24pin I/O Port & VGA 1080P)
<b>Video Display</b>	Single picture, 1~5 pictures
<b>Signal System</b>	PAL / NTSC ( PAL@100 frame 1080P/sec; NTSC@120 frame 1080P/sec )
<b>Image Compression</b>	H.264/H.265
<b>Audio Input</b>	4 Channels
<b>Audio Output</b>	2 Channels (Front Panel 3.5mm Jack, Rear Panel on 24pin I/O
<b>Record Format</b>	Synchronized A/V recording



1080P



GPS Positioning



Panic Button



Monitor Remotely



Speed Sensor



Mileage Sensor

## Description

Mobile DVR / Car DVR (with 3G, 4G, GPS, Wi-Fi) for vehicle real time monitoring, applied with Car Cameras used for vehicle monitoring in bus, taxi, school bus, truck, police car, tour bus, tanker truck, escort car, etc. Operated with Client Software BMMS (Bolide Mobile Management Software) to realize fleet management online, and achieve a full range of car monitoring functions such as real time video & audio monitoring, GPS, car tracking, GEO-Fence, voice intercom, car temperature, alarms customized , driving route record, PTZ control, fuel volume detection, video search and download, generating reports, etc.

System	
Language	English / Chinese
Operation Interface	Graphical User Interface (OSD menu)
Password Security	2 Levels: Administrator & User
Int'l Standard GPS	Internal GPS module. Real-time geographic coordinates, speed information
Internal G-Sensor + Gyroscope	Support an integrated 3 axis accelerometer (G-Sensor) and 3 axis gyroscope, to detect crash, harsh breaking, acceleration and cornering.
PC Playback	A/V, GPS, Mapview, Speed, G-Sensor, etc. files available for playback on PC. Limited playback is also available on MVR
BMMS	Wireless (require Wi-Fi or cellular Option) real-time A/V monitoring, GPS, alarms, etc.
Software Upgrade Local or Remotely	Upgrade through the front USB3.0 or remotely via BMMS platform
Voltage Input	8~36V DC Please check operational voltage of vehicle prior to the installation of the MVR and its accessories to prevent possible damage
Voltage Output	12V (+/-0.2V), Max 3A
ACC Detection	≤4V Power-off ≥6V Power-on
Video Input Resistance	75Ω
Video Output Voltage	2VP-P CVBS output analog signal, screen input requires 75Ω resistance
I/O Port	<1V Low voltage trigger >5V High voltage trigger
Operational Temperature	-40°C up to 80°C Install in well ventilated area, protected from moisture, heat, dust and vibration
Dimensions	192x184x61mm Including Security Cover 248x184x61mm

Recording & Storage	
Image Resolution	CIF / HD1 / D1 / 960H / 720P / 1080P
Video Coding	ISO14496-10 Industry Standard
Video Bit Rate	CIF: 1536Kbps ~ 128Kbps, HD1/D1: 2048Kbps ~ 400Kbps, 960H: 2048Kbps ~ 400Kbps, 720P: 4096Kbps ~ 400Kbps 1080P: 4096Kbps ~ 400Kbps Select from 8 Levels of Video Image Quality ranging from 1(Highest) to 8(Lowest)
Audio Bit Rate	40Kbps
Storage	Up to 2TB HDD/SSD and 1 SD card for backup

Alarm	
Alarm Input	8 Channels, Select Trigger for either less than 1VDC or greater than 5VDC
Alarm Output	1 Channel, 12V output

**Communication Ports**

<b>RS485</b>	1 Port for PTZ control or Data Device usage
<b>RS232</b>	2 Ports for communication or data usage
<b>RJ45 Network</b>	1 Port of RJ45(100M Ethernet port), For connection to an IP camera with maximum of 1080P
<b>Speed</b>	1 Channel (Optional, shared with the port IO /IN 8)
<b>CAN</b>	1 Channel (Optional, shared with the port IO /IN 6/7)
<b>USB</b>	2 ports. The front one is USB 3.0 to download video files & upgrade firmware. The rear panel one is USB 2.0 (optional)

**Wireless Communication**

<b>3G/4G</b>	Supported
<b>Wi-Fi</b>	Internal Wi-Fi 802.11b/g/n/ac

\* Specifications Are Subject to Change Without Notice.