

- 4 CHANNELS SYNCHRONIZED VIDEO & AUDIO RECORDING AND PLAYBACK
- 2 CHANNEL D1 AND 2 CHANNELS CIF FULL FRAME RECORDING
- DUAL SD CARD STORAGE OF 128GB EACH AND CLASS10 SDxc
- G SENSOR, GPS, 3G MODULES BUILT IN
- BACKUP FILE VIA USB DISK, NETWORK & SD
- CENTER VEHICLE MANAGEMENT SOFTWARE FOR VIDEO ADMINISTRATION AND GOOGLE MAPS LIVE VIEWER
- USED IN BUS, GOODS VAN, TAXI, POLICE CAR, SPORT CAR, MILITARY TANK, ETC

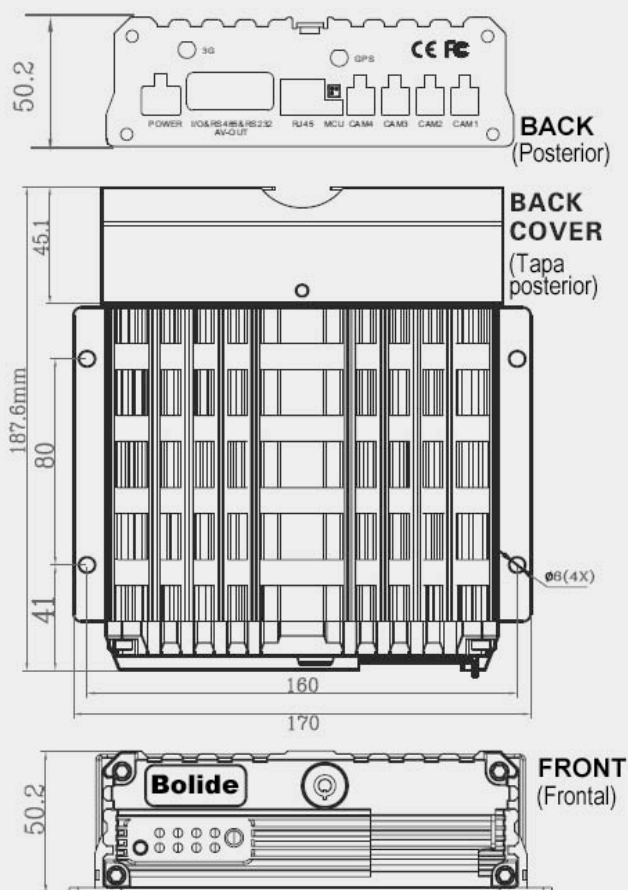


The MVR9004 SD is a practical digital video recorder solution for mobile applications with a storage performance of 256GB (2SD of 128 GB each) avoiding HDD use. The device's GPRS (3G) transmission makes it ideal for wireless data transmission and is compatible with most data carriers. An optional 4G functionality is also available for improved data transmission. The vehicles with the MVR9004 SD will be monitored permanently through the Google Maps integration and its position will be identified with superior accuracy. The MVR9004 SD is able to transmit video from 2 cameras with D1@30fps or more cameras with CIF. The design with SD card storage makes this solution highly suitable in applications with a high level of vibration as military applications and outdoor sport practices.

| SYSTEM                      |  | VIDEO & AUDIO       |  |
|-----------------------------|--|---------------------|--|
| IMAGE COMPRESSION           | H.264 Main Profile,75 Frame D1/sec   | VIDEO STANDARD      | NTSC /PAL  |
| OPERATING SYSTEM (FIRMWARE) | Linux  | VIDEO OUTPUT        | 1 Channel  |
| OPERATION INTERFACE         | On screen display menu   | VIDEO INPUT         | 4 Channels   |
| COMMUNICATION               |  | VIDEO DISPLAY       | Single picture, 4 pictures   |
| DATA TRANSMISSION           | RS485 interface x1<br>RS232 interface x 1  | SIGNAL SYSTEM       | PAL / NTSC   |
| WIRELESS                    | GPRS (3G) - Requires SIM Card of mobile service supplier<br>HSUPA/HSDPA/WCDMA/EVDO optional<br>or FDD-LTE/TDD-LTE Optional<br>Built in optional modules:<br>4G(LTE), GPRS/EDGE, CDMA | FRAMES PER SECOND   | NTSC:75 fps@D1   |
| GPS                         | Built in module for real time geographic coordinates, speed information  | AUDIO BIT RATE      | 8KB/s  |
| NETWORK FUNCTIONS           | Real time Surveillance with Microsoft Internet Explorer, GPS tracking with Bolide's Apps Included and / o Google Maps  | AUDIO COMPRESSION   | 8KHZ*16bit ADPCM   |
|                             |  | AUDIO INPUT         | 4 channels   |
|                             |  | AUDIO OUTPUT        | 1 channel  |
|                             |  | RECORD FORMAT       | Synchronized video & audio recording   |
|                             |  | PLAYBACK RESOLUTION | PAL: CIF (352 X 233)<br>HD1 (704X288)D1 (704X576)<br>NTSC:CIF(352X240)<br>HD1(704X240),D1(704 X 480) |
|                             |  | PLAYBACK FUNCTIONS  | Normal, fast forward, fast rewind, frame by frame  |



### DIMENSIONS



### POWER INFORMATION

|                          |                                 |
|--------------------------|---------------------------------|
| <b>POWER SUPPLY</b>      | 8V-36V wide voltage powersupply |
| <b>POWER CONSUMPTION</b> | 10-15W                          |

### RECORDING & STORAGE

|                           |  |
|---------------------------|--|
| <b>RECORDING SPEED</b>    | 2 channels D1, 2 Channels CIF  |
| <b>BACK UP MODE</b>       | Network & SD   |
| <b>IMAGE RESOLUTION</b>   | CIF/HD1/D1   |
| <b>VIDEO CODING</b>       | ISO14496-10  |
| <b>VIDEO BIT RATE</b>     | CIF: 1536Kbps - 128Kbps<br>HD1: 2048Kbps-3800Kbps<br>D1: 2048Kbps-380Kbps<br>8 grades of image quality optional:<br>Grade 1: best, Grade 8: lowest |
| <b>STORAGE</b>            | Supports 2 SD card storage of 128GB each (SDHC card)   |
| <b>RECORDING MODES</b>    | Always / Calendar / Movement / Triggered Sensor  |
| <b>RECORDING INTERVAL</b> | 15/30/45/60 Minutes Selectable   |
| <b>ALARM INPUT</b>        | 4 Channels<br>Activated by low voltage (<4V) by high voltage(>4V)  |
| <b>ALARM OUTPUT</b>       | 1 channel, 12V Output  |
| <b>ALARM MODE</b>         | Motion detection, sensor trigger, video loss. SD error or with no space  |

### ENVIRONMENT

|                             |   |
|-----------------------------|---|
| <b>WORKING TEMPERATURE</b>  | -40°C to 80°C / -40F to 176F  |
| <b>AUTOMATIC HEATING</b>    | Hard disk low temperature startup, automatic heating                  |
| <b>HUMIDITY</b>             | 10% a 90%   |
| <b>DIMENSIONS</b>           | 170mm(L) X 142,5mm (W)(Cover close) x 50,2mm(H) - Back Cover (H) 45,1 |
| <b>TRANSPORT USES</b>       | Bus, goods van, school bus, police car, escort car, tanker truck etc. |
| <b>G-SENSOR</b>             | Built in  |
| <b>SHOCK RESISTANCE</b>     | Yes   |
| <b>VIBRATION RESISTANCE</b> | Yes   |

### SOFTWARE

|                   |   |
|-------------------|---|
| <b>SOFTWARE</b>   | CMS included for video administration and Google Maps Live Viewer. Center vehicle Management software Platform can manage more than 20,000 devices at the same time. If more devices are to be added you can add more servers to expand |
| <b>SUPPORTING</b> | Video files playback in PC with analysis of the vehicle status<br>CMSV6 Wireless real-time video & audio monitoring, GPS, alarm, etc  |
| <b>UPGRADE</b>    | Wireless real-time video & audio monitoring, GPS, alarm, etc<br>Software upgrade through SD card  |