# MVR9004-3G

## Mobile Digital Video Recorder

- **MOBILE DIGITAL VIDEO RECORDER**
- **4- CHANNEL VIDEO AND AUDIO INPUTS**
- **RECORDING, 30fps D1 PER CHANNEL**
- **2-CHANNEL COMPOSITE VIDEO OUTPUTS**
- **H.264 RECORDING STANDARD**
- **BACKUP FILE VIA USB DISK, NETWORK & SD**
- **OPTIONAL MODULE: 4G NETWORKS (LTE) FOR FASTER LIVE VIDEO/RECORDED VIDEO RETRIEVAL**
- **CENTER VEHICLE MANAGEMENT SOFTWARE FOR VIDEO ADMINISTRATION AND GOOGLE MAPS LIVE VIEWER**

The MVR9004-3G is a digital video recorder designed for all mobile applications that include ground, air, and sea. Our latest innovative design far exceeds current industry specifications. Its embedded GPS enables the ability to identify a vehicle's position with superior accuracy and is accessible through the DVR's integration with Google Maps and its own Central Vehicle Management Software (CVMS ). Built-in shock absorbers prevent damage done by vibration and protects the recorder and its internal components while in motion. The MVR9004-3G uses a 2.5 inch SATA or Solid State Drive which features faster data transfer speeds and less moving parts, making them more suitable for mobile applications. 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.

| SYSTEM | |
|---|---|
| **IMAGE COMPRESSION** | H.264 Main Profile,<br>PAL:100 Frame D1/sec<br>NTSC: 120 Frame D1/sec |
| **OPERATING SYSTEM (FIRMWARE)** | Linux |
| **OPERATION INTERFACE** | On screen display menu |

| COMMUNICATION | |
|---|---|
| **ETHERNET** | RJ45 network interface - 100Mbps<br>for external WiFi module or IPC |
| **DATA TRANSMISSION** | RS485 interface x3<br>RS232 interface x1 |
| **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 |
| **GPS** | Built in module for real time geographic coordinates, speed information |
| **NETWORK FUNCTIONS** | Real time Surveillance with Microsoft Internet Explorer, GPS tracking with Bolide's Apps Included and / or Google Maps |

| VIDEO & AUDIO | |
|---|---|
| **VIDEO STANDARD** | NTSC /PAL |
| **VIDEO OUTPUT** | 2 CH Composite Video Output<br>1.0Vp-p, 75ohms |
| **VIDEO INPUT** | 4 |
| **FRAMES PER SECOND** | NTSC:120 fps@D1 / PAL:<br>100fps@D1 |
| **VIDEO CODING** | ISO14496-10 |
| **VIDEO BIT RATE** | CIF: 1536Kbps - 128Kbps<br>HD1:204Kbps-380Kbps<br>D1:2048Kbps-400Kbps<br>8 grades of image quality optional:<br>Grade 1: best, Grade 8: lowest |
| **AUDIO BIT RATE** | 8KB/s |
| **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 |

**Bolide Technology Group**
**San Dimas, CA 91773**
**ISO 9001:2008 Certified Company**

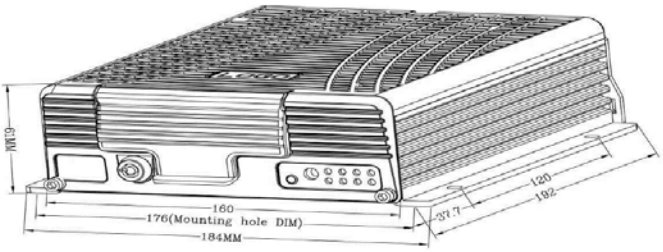
**www.bolideco.com**
**sales@bolideco.com**
**Tel 909 305 8889 – 909 305 0999**

# MVR9004-3G

## Mobile Digital Video Recorder

Front Panel – HDD /SD Storage

Back Panel




General Dimensions

| RECORDING & STORAGE | |
|---|---|
| **RECORDING SPEED** | 4 channels D1, Full frame recording |
| **BACK UP MODE** | USB Flash, USB disk, Network & SD |
| **IMAGE RESOLUTION** | CIF/HD1/D1 |
| **STORAGE** | 2TB Hard Disk |
| **HARD DISK INTERFACE** | Supports 2.5" SATA HDD/SSD Max.**2** TB Supports One SD Card Backup when HHD/SSD is error. |
| **RECORDING MODES** | Always / Calendar / Movement/ Triggered Sensor |
| **RECORDING INTERVAL** | 15/30/45/60 Minutes Selectable |
| **ALARM INPUT** | 8 Channels,<br>Activated by low voltage (<4V) and high voltage (>4V) |
| **ALARM OUTPUT** | 1 channel, 12V Output |
| **ALARM MODE** | Motion detection, sensor trigger, video loss. HDD error or with no space |
| **USB** | **2 x** USB 2.0 for backup and system updates<br>The front one to derive video files & upgrade software<br>The back one(optional) to connect waterproof & fireproof "black box" for data recorder |
| **SOFTWARE** | |
| **SOFTWARE** | CMS included for video administration and Google Maps Live Viewer. Central vehicle Management software Platform, it can manage more than 20000 devices at same time, if it's needed to manage more units, add more servers to realize it. |
| **SUPPORTING** | Video files playback in PC with analysis of the vehicle status<br>CMSV6 Wireless real-time video& audio monitoring, GPS, alarm, etc |
| **UPGRADE** | Software upgrade through SD card |
| **ENVIRONMENT** | |
| **WORKING TEMPERATURE** | -40°C to 80°C / -40F to 176F |
| **AUTOMATIC HEATING** | Hard disk low temperature startup, automatic heating |
| **HUMIDITY** | 10% - 90% |
| **DIMENSIONS** | 192mm(L) X 184mm (W) x 61mm(H) |
| **TRANSPORT USES** | Bus, goods van, school bus, police car, escort car, tanker truck etc |
| **G SENSOR** | Built in |
| **VIBRATION RESISTANCE** | Yes |
| **SHOCK RESISTANCE** | Yes |

| POWER INFORMATION | |
|---|---|
| **POWER SUPPLY** | 8V-36V Wide voltage power supply |
| **POWER CONSUMPTION** | 10-15W |


**Bolide Technology Group**
**San Dimas, CA 91773**
**ISO 9001:2008 Certified Company**

**www.bolideco.com**
**sales@bolideco.com**
**Tel 909 305 8889 – 909 305 0999**

BOLIDE® TECHNOLOGY GROUP

# MVR9004-3G
**Mobile Digital Video Recorder**

## Additional highlights of the MVR9004-3G

- **GPS Tracking** — Specific location, vehicle information, time, mileage, speed and alarm status show on the map.
- **GEO-Fence** — A GEO-fence could be dynamically generated as in a radius around a point location or a predefined set of boundaries.
- **Text to Speech** — CMSV6 converts normal language text into speech, text to be displayed and broadcasted on terminal screen in vehicle
- **Intercom** — PC user communicates with driver

- **Audio Monitoring** — PC user unidirectional monitoring talking / sound in vehicle
- **PTZ Control** — A pan-tilt-zoom camera can be capable of remote directional and zoom through CMSV6, as well as windshield wiper & light control.
- **Video Color Setting** — To set up color brightness, contrast, color sensitivity, saturation, exposure.

- **Tracking Display** — Complete information of vehicle tracking e.g. driving route, location, speed, mileage and remaining fuel volume

## Real-time monitoring from the palm of your hand

**Supports iOS and Android mobile devices**

| | | |
|---|---|---|
| **Video & Audio Monitoring** | **Online Vehicle Status** | **Satellite Map** |
| **GPS** | **Video Storage** | **PTZ Control** |
| **Tracking Display** | **Picture Snapshot** | **Voice Intercom** |

**Vehicle list Function**
To monitor all vehicles status (green/online, red/alarm) support other terminal monitoring device as mobiles MDVR, GPS tracker

**Real Time Monitoring**
Real-time video, 4 channels display, PTZ control, real time video recording

**Bolide Technology Group**
**San Dimas, CA 91773**
**ISO 9001:2008 Certified Company**

**www.bolideco.com**
**sales@bolideco.com**
**Tel 909 305 8889 – 909 305 0999**