

- **MOBILE DIGITAL VIDEO RECORDER**
- **8- 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 MVR9008-3G 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 protect the recorder and its internal components while in motion. The MVR9008-3G 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

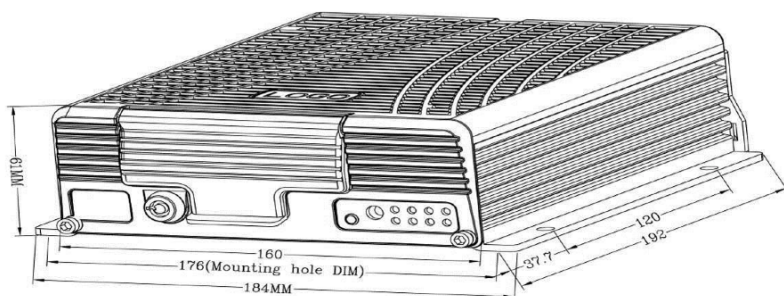
SYSTEM		VIDEO & AUDIO	
IMAGE COMPRESSION	H.264 Main Profile, PAL:100 Frame D1/sec NTSC: 120 Frame D1/sec	VIDEO STANDARD	NTSC /PAL
OPERATING SYSTEM (FIRMWARE)	Linux	VIDEO OUTPUT	2 Channels
OPERATION INTERFACE	On screen display menu	VIDEO INPUT	8 Channels
PASSWORD SECURITY	Setting of authorized administrator & user	VIDEO DISPLAY	Single picture, 9 pictures
COMMUNICATION		FRAMES PER SECOND	NTSC:120 fps@D1 / PAL: 100fps@D1
ETHERNET	RJ45 network interface - 100Mbps for external WiFi module or IPC	VIDEO BIT RATE	CIF: 1536Kbps - 128Kbps HD1:204Kbps-380Kbps D1:2048Kbps-400Kbps 8 grades of image quality optional: Grade 1: best, Grade 8: lowest
DATA TRANSMISSION	RS485 interface x3 RS232 interface x1	AUDIO BIT RATE	8KB/s
WIRELESS	GPRS (3G) / EDGE - Requires SIM Card of mobile service supplier HSUPA/HSDPA/WCDMA/EVDO optional or FDD-LTE/TDD-LTE Optional Built in optional modules: 4G(LTE), GPRS/EDGE CDMA	AUDIO COMPRESSION	8KHZ*16bit ADPCM
GPS	Built in module for real time geographic coordinates, speed information	AUDIO INPUT	8 channels
NETWORK FUNCTIONS	Real time Surveillance with Microsoft Internet Explorer, GPS tracking with Bolide's Apps Included and / or Google Maps	AUDIO OUTPUT	1 channel
		RECORD FORMAT	Synchronized video & audio recording
		PLAYBACK RESOLUTION	PAL: CIF (352 X 233) HD1(704X288)D1 (704X576) NTSC:CIF(352X240) HD1(704X240),D1(704 X 480)
		PLAYBACK FUNCTIONS	Normal, fast forward, fast rewind, frame by frame



Front Panel – HDD /SD Storage



Back Panel



General Dimensions

RECORDING & STORAGE

RECORDING SPEED	8 channels D1, Full frame recording
BACK UP MODE	USB Flash, USB disk, Network & SD
IMAGE RESOLUTION	CIF/HD1/D1
VIDEO CODING	ISO14496-10
STORAGE	2TB Hard Disk
HARD DISK INTERFACE	Supports 2.5" SATA HDD/SSD Max.2 TB Supports One SD Card Backup when HDD/SSD is error.
RECORDING MODES	Always / Calendar / Movement/ Triggered Sensor
RECORDING INTERVAL	15/30/45/60 Minutes Selectable
ALARM INPUT	8 Channels Activated by low voltage (<4V) by high voltage (>4V)
ALARM OUTPUT	1 channel, 12V Output
ALARM MODE	Motion detection, sensor trigger, video loss. HDD error or with no space
USB	1 USB 2.0 for backup and system updates in the front to derive video files & upgrade software Optional in the back to connect waterproof & fireproof "black box" for data recorder

SOFTWARE SOFTWARE

CMS included for video administration and Google Maps Live Viewer. Center vehicle Management software Platform, it can manage more than 20000 device 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 CMSV6 Wireless real-time video& audio monitoring, GPS, alarm, etc

UPGRADE

Software upgrade through the front USB2.0 interface and SD card

ENVIRONMENT

WORKING TEMPERATURE	-40°C to 80°C / -40F to 176F
AUTOMATIC HEATING	Hard disk low temperature startup, automatic heating
HUMIDITY	10% a 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


GPS Tracking
GEO-Fence
Text to Speech
Intercom
Audio Monitoring
PTZ Control

Video Color Setting
Tracking Display
Additional highlights of the MVR9004-3G

Specific location, vehicle information, time, mileage, speed and alarm status show on the map.

A GEO-fence could be dynamically generated as in a radius around a point location or a predefined set of boundaries.

CMSV6 converts normal language text into speech, text to be displayed and broadcasted on terminal screen in vehicle

PC user communicates with driver

PC user unidirectional monitoring talking / sound in vehicle

A pan-tilt-zoom camera can be capable of remote directional and zoom through CMSV6, as well as windshield wiper & light control.

To set up color brightness, contrast, color sensitivity, saturation, exposure.

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

GPS

Tracking Display

Online Vehicle Status

Video Storage

Picture Snapshot

Satellite Map

PTZ Control

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