

# BULLET DVR

## Multi-Cam Kit

All-in-one Video Recorder + Lap Timer

The Bullet DVR™ system is a new tool designed for the motorsports industry, allowing racers of all disciplines to capture onboard video footage along with lap time data, giving them an instant replay of their racing lines, braking points, corner entry, exit, etc. Providing spectacular race action videos from up to three cameras simultaneously, similar to what can be seen during live TV coverage of Moto GP, F1, NASCAR, Rally racing, and many more. It's much more than just a helmet camera!

The Bullet DVR™ unit provides professional quality videos, thanks to its powerful ARM9 processor and high resolution micro cameras, capable of capturing exceptional clarity race footage with broadcast industry MPEG-2 standard, or MPEG-4 with DivX encoding for webcasting and video streaming. It allows you to quickly and easily create videos for playback and editing on any Windows PC computer, or home DVD player.

The complete system is built using solid-state technology, meaning there are no moving parts inside the unit which could break or fail due to bumps and vibrations encountered on the racetrack. Furthermore, the recorder and detachable cameras are mounted on the race vehicle using custom-made anti-vibration mounts, virtually eliminating the age-old problem of "shaky" videos associated with traditional video recording systems.

Racers benefit from using this system tremendously because they can playback the recorded video immediately following a track session, showing them exactly what has just happened and allowing them to make correction to their driving and/or to the vehicle setup, ultimately resulting in lower lap times.

It is very common for racers to become overwhelmed while out on the track and to forget many important details such as human errors or how the vehicle reacted to the track conditions. The Bullet DVR™ unit doesn't lie or forget, you will see things as they really happened. Your mechanic can use it to notice issues with the engine, gearing or suspension, while you can exploit it to perfect your skills. It's like having a personal coach onboard with you at all times!



## Features

- 3 separate video inputs for Bullet Cameras.
- Quick-Connect waterproof plugs.
- Cameras powered by DVR.
- Picture-in-Picture screen overlay.
- Built-in infra-red Lap Timer.
- Real time clock and OSD
- A/V out jack for live monitoring.
- Internal audio microphone.
- MIC jack for stereo microphone.
- IR remote control.
- Optional LANC remote control.
- 12VDC powered directly from your vehicle's battery.
- AC power adapter for 110/220V wall outlets.
- Advanced hardware MPEG-2/4 multi-format video stream encoder ASIC.
- Full D1 resolution and full frame rate.
- Encoded video and audio recorded on solid state CF card.
- Compatible with both PAL and NTSC format.
- 9-bit ADC with Comb Filter to process Y/C separation.
- Exact A/V synchronization.

## Specs

**Power:**

AC Adapter: 12VDC 1A, 110-240VAC  
Camera & MIC: 12V 300mA output, 5-12V selectable  
Consumption: ~400mA @ 12VDC while recording

**Video:**

Video Stream: MPEG-4/2 selectable  
Resolution: PAL 720x576, NTSC 720x480  
Bit Rate: 1-8 Mb/s, adjustable  
Frame Rate: PAL 25fps, NTSC 30fps  
GOP: IP, IBP, IBBP  
Standard: PAL/NTSC/SECAM selectable  
Picture: Brightness/Contrast/Saturation Adjustable

**Audio:**

Sampling: 8/16/32/48KHz, 16bits  
Format: PCM/ADPCM  
Channels: 2  
MIC: 2.2VDC Bias, 5.1Kohm, <0.3Vpp Max.

**Interface:**

Video In: 3x Quick-Connect jack, 1Vpp, 75ohm  
Video Out: 3.5mm Jack to RCA, 1Vpp, 75ohm  
Audio In: Internal Mono or External Stereo MIC  
(optional) <1.8Vpp Max., 4.7Kohm  
Audio Out: 3.5mm Jack to RCA  
Power: Quick-Connect DC Power jack  
Lap Timer: 2.5mm external beacon receiver  
LANC Control: 2.5mm LANC jack  
Remote Control: Infra-Red Wireless  
Indicator: Multi-color status LED  
Alert : Audio beep

**Software:**

Firmware: Upgradable, Linux OS.

**Storage:**

CF Card: Up to 32GB  
Disk Format: FAT32

**Configuration :**

PC software or Video Out

**System requirements (Playback):**

- Pentium III 800 or above
- RAM: 128MB
- HDD: 2GB free disk space
- CF Card Reader or PCMCIA interface
- Monitor resolution: 1024x768
- DirectX 9.0 support
- OS: Windows 98/Me/2000(SP4)/XP (SP2)/Vista

**Physical:**

120 x 85 x 27 mm  
Black anodized.

**Weight:**

284 grams (10 ounces) without CF card.

**Accessories:**

Quick-release Bracket  
Bullet Camera  
Anti-Vibration camera mount  
AC Power Adapter  
12VDC Power cable  
A/V Out cable  
Compact Flash card  
Wireless remote control  
IR Receiver  
Software CD

# BULLET DVR

Contact information:

**Bullet DVR**  
1284 Des Seigneurs #94086,  
Terrebonne, QC,  
J6W 5V4, Canada.  
PH: (+1) 514.313.8319  
info@bulletdvr.com

[www.bulletdvr.com](http://www.bulletdvr.com)