

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

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