

## **IMPACT™ Digital Video Recorder**

### **Solid State Digital Video Recorder for School Buses**

*IMPACT™* is the next generation of digital video recorder for school buses that combines solid state memory with the industry's latest video compression technology – to give you the best entry level digital video recorder for your school bus fleet.

The system records video onto a solid state high capacity SD memory card – eliminating the hard drive and its associated failure rates. There are no spinning disks or heads to crash and nothing that will be damaged by vibration or shock.

Recording time of 30 hours is exceptional with near high definition quality. The *IMPACT™* digital video recorder uses h.264 video compression technology, the latest available, to deliver you such high quality video. Combine that with VGA resolution and 20 frames per second: You get great resolution that is extremely memory efficient.

Obtaining video from the bus is simple; just collect the SD card where the video is automatically stored. Video can be read by most of the standard video players.

The unit is easy to install and is maintenance free. It even contains self-diagnostics and will let you know if it needs service. You are up and running with the safety and security of a digital video recorder in no time.

#### **Optional GPS**

GPS embeds speed, time and location into the video stream, allowing you to know where and how fast the bus travels. GPS data integrates into mapping and route optimizing applications.

#### **Optional Vehicle Information Sensor Pack**

Up to 8 bus signals can be monitored, including stop arm, door open, brakes lights, etc. The data is embedded into the video. An event marker button is included, allowing the bus driver to mark the time of an incident.

For more sophisticated DVR systems, ask about our *IBUS Digital Video Recording System*, which combines up to 4 cameras with Wi-Fi video download and optional GPS.

**IMPACT™** – provides you quality video, high reliability, ease of use – all at a reasonable price.



# **IMPACT™ Digital Video Recorder**

## **Specifications**

### **DVR Specification**

Recording Medium:	8GB SD card
Recording Channels:	2 channels
Video Resolution:	VGA
Video Compression:	h.264
Frame Rates:	20 fps
Recording Modes:	Endless loop
Audio:	Single stereo channel
Recording Time:	Over 5 days @ 7hours / day
Delayed Recording:	User selectable, default is 15 minutes
Digital Camera:	One or two

### **Casing**

Rugged custom design

### **Environmental**

Recording:	-30 deg C to +50 deg C
Standby:	-50 deg C to +60 deg C

### **Operating System**

Linux

### **Power Input**

125 Watts (150 Watt peak) PSU  
6-24V input range  
Intelligent shutdown controller  
Survives vehicle engine cranks  
Battery deep discharge prevention

### **Optional GPS Module**

GPS Chipset	SiRF Star III
Frequency	L1, 1575.42 MHz
Channels	20 channel all-in-view tracking
Sensitivity	-159 dBm
Antenna	Active patch antenna
Accuracy Position	10 meters, 2D RMS 5 meters, 2D RMS, WAAS enabled

### **Safety & Mounting**

Designed for mounting on any school bus  
Screw-mounted bus unit  
Designed to meet all current bus standards  
Self-diagnostics

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