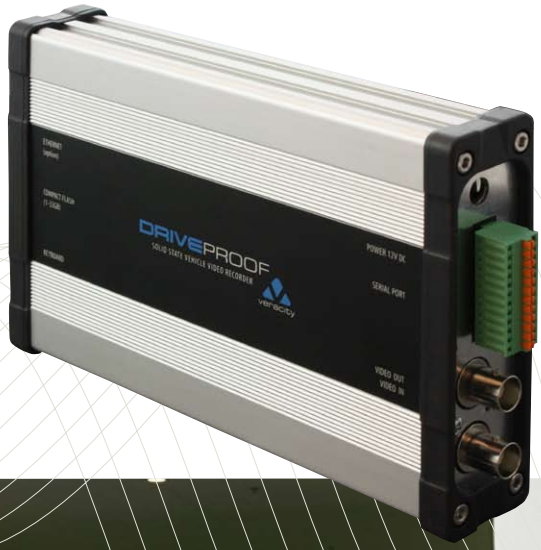
DRIVEPROOF

SOLID STATE VEHICLE VIDEO RECORDER





Robust solid-state single channel DVR for vehicle applications

- Super reliability – no hard disk !
- Extremely compact design
- Superb image quality
- No PC, no operating system
- Very simple installation
- Direct connection to vehicle power supply
- All solid-state device
- Wide operating temperature range
- Records onto removable Compact Flash
- High-resolution recording (720 x 576)
- 0.1 fps to 30 fps recording rate
- Up to 32GB recording capacity
- Alarm inputs for auto/manual event marking
- Playback directly to video monitor or via PC
- Starts recording within 5 secs of ignition-on

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DRIVEPROOF is a single-channel digital video recorder for vehicle applications.

It is an all-solid-state design, recording to standard Compact Flash (CF) memory cards. With CF cards available up to 32GB, DRIVEPROOF can store over 400 hours of recordings at full-frame resolution (720 x 576) and at 1 fps. The product has been designed for environments where normal hard-disk based DVRs are found to be unreliable, and is ideal for vehicle applications. Vehicle applications tend to heavily stress normal DVR systems due to very high levels of shock and vibration, but also due to power variations, very noisy power sources, temperature extremes, frequent and often unexpected start-stop cycles, and cooling fan failure due to dust and dirt ingress. Such an environment is totally unsuited to hard disk systems, even if they are shock-mounted. It is also unsuited to operating systems which often crash when being frequently re-booted and interrupted. Thus DRIVEPROOF has been designed as a dedicated hardware system for single-channel recording of composite video. There is no operating system, no hard disk and no fans or moving parts of any kind.

DRIVEPROOF records onto robust Compact Flash cards, just like those used in many digital cameras. These cards are available in sizes from 64MB to 16GB, and are extremely robust, being able to withstand shock, vibration and general rough handling – essential for vehicle environments. The image compression used is JPEG2000, providing very high quality images. The compression can be varied to provide image file sizes from 2KB (very high compression) to 32KB (very high quality).

DRIVEPROOF has been designed from the ground up with total system reliability in mind. With no operating system, and all program software burned into solid-state memory the system will start recording within 20 seconds of the vehicle ignition being switched on.

DRIVEPROOF is powered by a separate 12V or 24V DC to DC power supply which filters vehicle power supply noise. This also makes the unit easier to install in small spaces. We recommend a lockable box or covered area with locking screws to prevent unauthorised access to the unit and especially the CF card, which is easily removed.







Thus DRIVEPROOF is ideal for vehicle applications (such as school buses) where systems may go untouched for very long periods until an incident occurs. When this happens, there are several options for reviewing the video images. First, the CF card may be pulled out and the images played back on a PC. Second, a composite video monitor and PC keyboard may be connected to the unit, and the images played back in situ. Finally, due to its compact size and very light weight, the entire unit may be removed and hooked up to a monitor and keyboard on the bench and played back that way.

Note that the CF card may be pulled out at any time, even if the unit is still recording. A new card may be inserted at any time even if the unit is switched on. Thus cards are hot-swappable. A new card will be automatically formatted by the system. No user interaction is required. When required, the recordings can be transferred onto a PC, and from there onto a CD or DVD. Alternatively, the video footage may be played back and recorded onto video tape by connecting a VCR directly to the DRIVEPROOF video output.

DRIVEPROOF is delivered complete with playback software for Windows PCs. This allows full analysis of the recordings including a graphical display of event history and recording times, replay in full-frame or single field mode, duplication of files, burning onto CD and DVD, and archiving of critical files to hard disk for long-term storage.

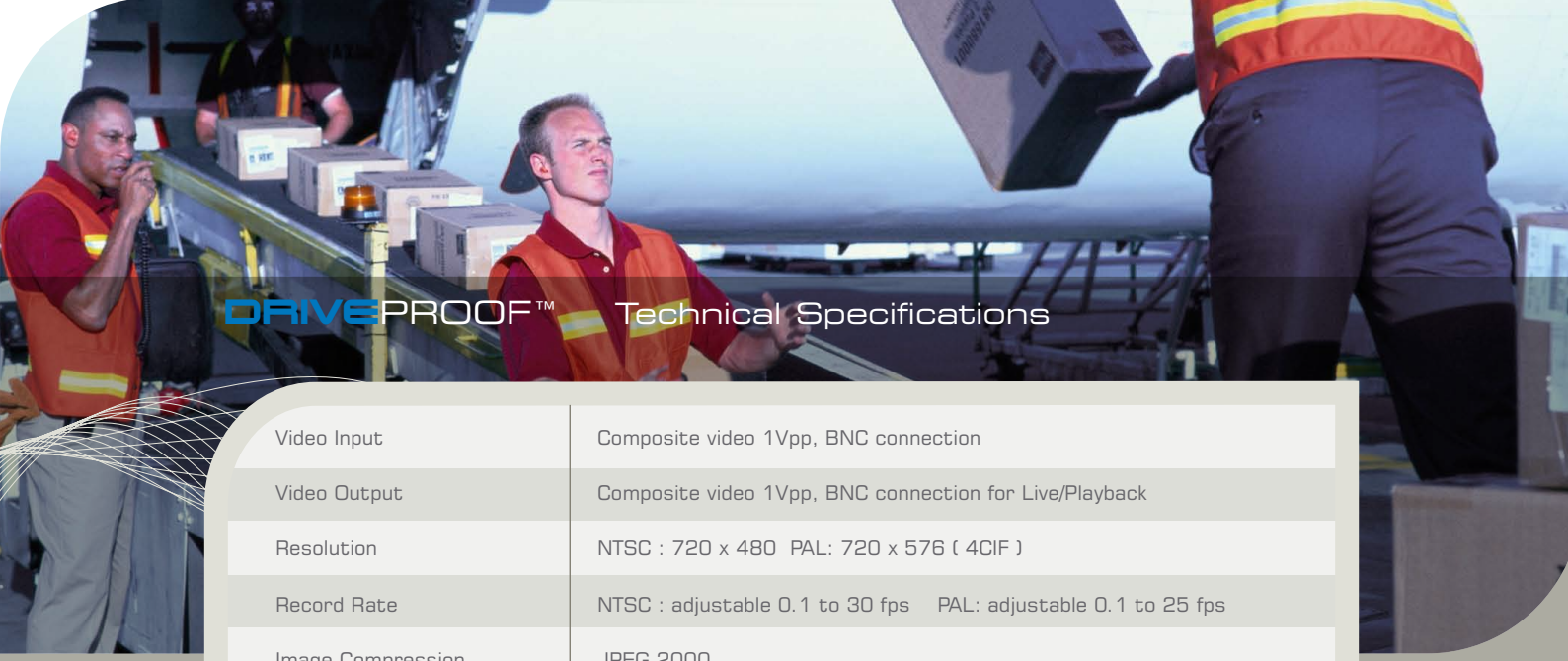
DRIVEPROOF Front Panel showing easy access to Compact Flash slot

DRIVEPROOF Rear Panel showing BNC connectors for video IN/OUT, PS/2 connector for standard keyboard, power jack, and serial port.





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DRIVEPROOF™ Technical Specifications

Video Input	Composite video 1Vpp, BNC connection
Video Output	Composite video 1Vpp, BNC connection for Live/Playback
Resolution	NTSC : 720 x 480 PAL: 720 x 576 (4CIF)
Record Rate	NTSC : adjustable 0.1 to 30 fps PAL: adjustable 0.1 to 25 fps
Image Compression	JPEG 2000
	Minimum frame file size : 2KB Maximum frame file size : 32KB,
Archiving / Data Transport	High speed Compact Flash Card (at least 40x).
	Also 1Mb/s Ethernet port option
Recording Media	1GB, 2GB, 4GB, 8GB, 16GB or 32GB Compact Flash card
Recording	Continuous with event marking (via external alarm input)
Alarm Inputs	1
Keyboard Port	Standard PS/2
Playback Control	Play, pause, fast-forward, fast rewind, jump 1 minute, jump 5 minutes,
	jump to next/previous event, all via a standard PS2 PC keyboard
Communication Port	RS232 Serial Link connects to PC for configuration, if required
Power	External Power Supply 12 to 24V DC power supply
Power consumption	7W
Cooling	Fanless System
Dimensions	W : 110mm x D : 170mm x H : 33mm
Environmental	Operating : 5 deg F to 125 deg F (-15 deg C to 50 deg C)
	Vibration : Sinusoidal, 5G, 10 to 500Hz, 1 Oct./Min, X, Y, Z axes, 2hrs/axis
	Shock : 50G peak acceleration (6msec duration)
Approvals	CE, FCC, RoHS, Automotive E-Marking (EU Standard)

See our website for further information at www.veracityuk.com

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