

# Video Black Box

## for the 21st Century

Based on Australian Patent No. 2004100077 and made by one of the world top digital video recorder manufacturer Dallmeier Electronic GmbH in conjunction with CCTV Labs, the all new M-DMS4VBB Video Black Box is designed for the 21st century mobile security.

It records up to 4 channels high quality wavelet video, one audio and data onto a portable DVR, powered by 12 VDC. One of the patented functions is the parallel recording on a hard disk, as well as onto an indestructible non-volatile memory. During normal operation, the DVR is recording all cameras, audio and data onto the hard disk, as well as onto the non-volatile memory.

In the case of collision, explosion, fire or any other physically destructive occurrence, the DVR will most likely get damaged, losing all the recording. The non-volatile memory however will have all such data of the last few hours preserved because it is enclosed in a separate explosion-proof, fire-proof (designed to withstand 1300°C) and water-proof enclosure.

Furthermore,

during normal operation, all the information going into the DVR (video, audio and data) is accessible from a remote location (GSM, GPRS or 802.11g).

Wavelet video images are independent files with best possible image quality, offering clear identification of persons, licence plates and other important details a camera can see.

There is a high level interface with any GPS module compliant with the NMEA standard, the data of which is inserted and

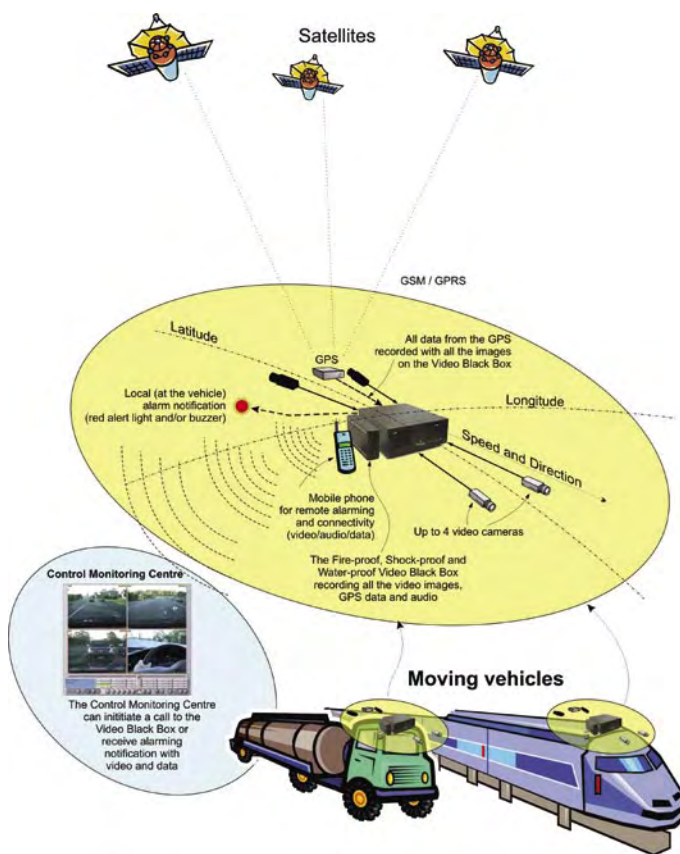


recorded into the DVR (longitude, latitude, direction of movement and ground speed).

Various plane and vehicle data of interest can also be inserted (speed, fuel levels, temperature, RPMs, brakes, indicators, etc.).

Up to 3 weeks of recording can be achieved on a 300 GB internal drive and up to a few hours of recording can be stored on 1 GB, 2 GB or 4 GB flash memory.

The footage is



security encoded and can be played back directly from the box (password protected), or, using a standard PC with a special software, protected by a hardware key.

Quick searches can be made by time/date, area of movement or by data (GPS co-ordinates, speed, vehicle data, etc.).

Remote automatic notification can be sent to a control monitoring room using a wireless connection via a mobile phone or via wireless 802.11g connection. Such notification can include vehicle exceeding speed, reaching a destination, plane going below certain altitude and similar.

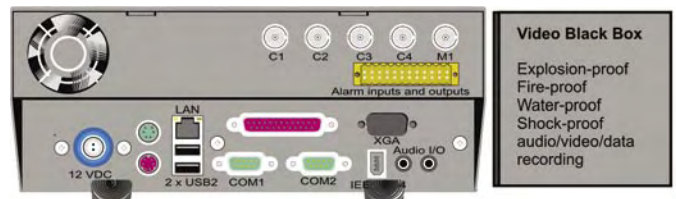
In an unlikely tragic and destructive event such as collision, fire, explosion or similar, the DVR hard disk recording will most likely be destroyed or damaged, but the black box module will survive and have the last hour footage available for play back and analysis immediately, without any special preparation, on a standard PC.

The indestructible component is made in Australia by a team of engineers from BlueScope Steel (formerly BHP).

Typical applications include: Aeroplanes; Trucks; Trains; Ships; Police cars;

Ambulances; Improving traffic security and safety; Reducing the risk in over-speeding by automated notification (sending remote and/or local notification); Remote monitoring and better fleet management (not only GPS location but visual as well); Insurance companies can verify the cause of an accident (evidence for litigation purposes); Post tragic event analysis of the reason for the accident; Law enforcement agencies get a more complete and reliable tool for their work; Fire brigades, ambulances, petrol trucks can protect their work and ensure log-trail; Replacing of the current audio black box in planes and helicopters;... The sky is the limit. [•]

For more info e-mail: [cctvlabs@cctvlabs.com](mailto:cctvlabs@cctvlabs.com)



**Video Black Box**  
Explosion-proof  
Fire-proof  
Water-proof  
Shock-proof  
audio/video/data recording

