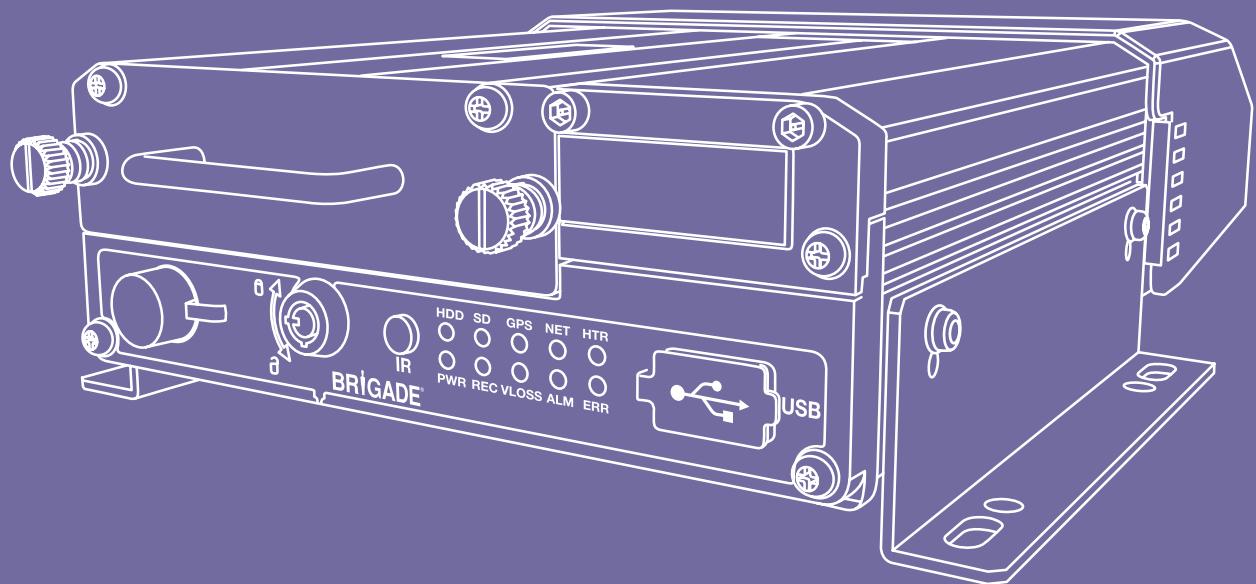
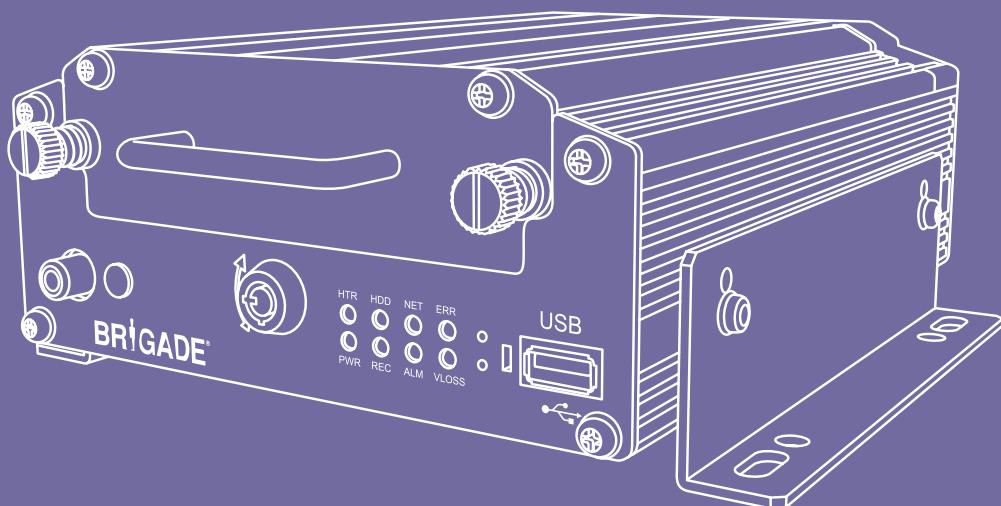




# Vehicle Safety Solutions



# Mobile Digital Recording



# Mobile Digital Recording

## What price a reliable witness?

Vehicle incidents and insurance claims are time-consuming issues for transport managers to resolve. A lack of solid evidence is leading to many out of court settlements, but these have only fuelled an increase in cases against those operators – who quickly get known as a soft-target for further similar claims. False claims, crash for cash and shrinkage are now costing businesses millions each year. Add to this the issues of vandalism and attacks on drivers and the job of the transport manager becomes evermore difficult.

**A well known international logistics and distribution company are the subject of £10m worth of claims every year - £6m of this is paid unchallenged**



**Liability for broken door mirrors is accepted on a daily basis by local authorities and large companies who have no way of disproving a false claim.**

**"The system has been invaluable on a number of occasions where we have been able to disprove claims, saving the council a great deal of money"**

David White  
Transport Services Manager, Ashfield District Council



## Why fit a mobile recorder?

By capturing footage from vehicle mounted cameras, digital recording offers the solution. It provides an accurate witness, giving irrefutable evidence in the case of false claims, crash for cash incidents or vandalism. Refuting these claims means companies can make major cost savings, whilst importantly supporting their drivers, who are often the subject of increased scrutiny.

Combined with the benefits of the camera monitor system, which helps eliminate driver blind spots and prevent costly vehicle damage, the rewards are even more far reaching.

Brigade's new Mobile Digital Recorder (MDR) range includes four-channel recorders with a 500Gb hard drives and eight-channel, 1TB models, each allowing up to 1164 hours of recording time. Both four and eight-channel recorders include models with WiFi and/or 3G connectivity capabilities, allowing data to be accessed from the recorder without physically having to go to the vehicle.

- ✓ Prevent false insurance claims such as 'crash for cash' scams
- ✓ Protection for drivers who may be wrongly accused
- ✓ Provides irrefutable evidence in the case of accidents and legal proceedings
- ✓ Useful in reducing shrinkage and catching perpetrators
- ✓ Encourages driver best practice, so less vehicle damage and accidents
- ✓ Enables more effective driver training
- ✓ Vandalism deterrent
- ✓ All the above helps to lower insurance premiums
- ✓ Peace of mind for passengers and drivers

# Protecting your driver. Providing your witness.



# Mobile Digital Recording

**Brigade's New Mobile Digital Recorders capture real-time footage from up to eight vehicle-mounted cameras. Straightforward to install, data access is simple yet secure. The lockable hard drive is easily removed for connection to PC or laptop or footage can be uploaded using the 3G network or dedicated WiFi.**



*MDR-408 series  
8 channel recorder*



*MDR-404 series  
4 channel recorder*

## Compatibility

- Compatible with Brigade's range of cameras as well as Backeye®360 Select, the intelligent camera system which provides a real-time bird's-eye view of the vehicle in a single image.



*Internal      Side      Rear      Front  
Camera examples*

- Compatible with most other camera systems
- Compatible with Brigade monitors. Allows the driver to view all or some of the camera images in real-time to aid blind-spot visibility and manoeuvring.



## Recording features

- Can record up to eight channels simultaneously.
- Up to 1164 hours recording time.
- Simultaneous mirror-recording onto an in-built SD card, meaning there is always back-up of footage.
- Built-in GPS for recording speed and location. Useful evidential information in the case of a claim or accident.
- Eight configurable trigger inputs. e.g.: Speed, G-Force, motion detection, voltage, video signal loss, and optional remote panel with panic button.
- Pre and post trigger recording of up to 30 minutes for highlighting events leading up to or following an incident.
- Audio functionality with high quality compression (monitor and/or camera must have microphone).
- Four recording mode options; constant, only recording alarms, specified times set by the user or by the remote panel (sold separately) which provides additional security for the driver at the touch of a panic button.
- Motion detection for capturing footage when the vehicle is unattended.
- G-sensor (built-in on MDR-408-1000, optional on MDR-404-500) provides useful impact data in the case of a collision and harsh accelerating and braking.

## Data access

- Search by date, time and triggered events such as G-Force, speed or motion detection.
- USB-B interface allows easy connection of the HDD to a PC/laptop.
- Download footage directly from MDR to USB storage device.

- The MDR Dashboard software gives full control over recorded information allowing clips and footage to be saved individually.
- The MDR Player software is embedded to exported clips allowing footage to be viewed without the need for additional software.

## MDR Dashboard



Recorded footage from up to 8 cameras. (4 channels shown: Front, right, rear and left)

Date and time

Route taken - shown on Google Maps or Bing

Triggered events

Recording log

Vehicle details

G Force GPS location Speed

Voltage and temperature

Frame Information

F/W Version T5C0411  
MCU Version X1-M06-STM8S-T506171  
Company Name 3  
Vehicle Number 3  
G-force INVALID  
GPS LON:0 0'38.82"East LAT:51 25'37.83"North ALT:INVALID  
Speed 45.0 KM/H Satellite INVALID Satellite precision INVALID  
Voltage 14.4 V  
Temperature 17.00 °C

Li	Ri	Br	Rv	5	6	7	8	PB	IGN
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Up to 8 triggers (Shown here: Left indicator, right indicator, brake, reverse gear, panic button and Ignition)

## Security

- Footage is protected by a non-visible digital watermark. Files that have been tampered with no longer play. This makes it a more reliable source of evidence to be used in legal proceedings.
- If the voltage falls below a set level, the system will safely shut down until the voltage is restored. This ensures no drain on vehicle battery and no damage to the MDR recordings.



# Mobile Digital Recording

Brigade's new range of 4 and 8 channel digital recorders now include models with WiFi and/or 3G connectivity capabilities. Wirelessly connecting an MDR to a secure server can save many man-hours, as data can be obtained from the recorder without needing to access the vehicle.

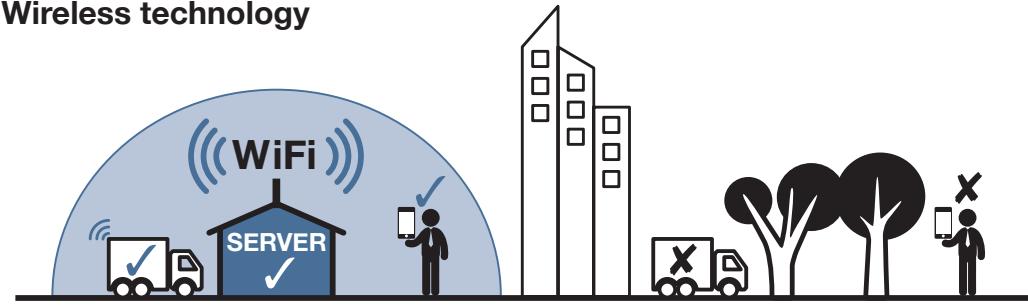
WiFi and/or 3G models have the same features as the standard MDR.

## WiFi and/or 3G connectivity features:

- Download data without physically going to the vehicle(s).
- Set-up automatic download of data (triggered events) to a secure MDR server when in range of MDR WiFi.
- Stream data remotely via 3G network.
- Real-time GPS tracking via 3G network (providing vehicle has 3G signal).
- Immediate notification of triggered events via 3G network or scheduled summary of events on WiFi.
- User-defined evidence packages to only receive the data you require.
- Live View up to 36 cameras from multiple MDRs.
- Mobile App to access live views, vehicle locations, create snapshots and receive alerts.



## Wireless technology



### WiFi

- A facility allowing devices to communicate wirelessly. A dedicated MDR Wireless network creates a small, localised area within which your devices can receive signal.
- WiFi is location based e.g. fleet yard, depot or quarry.



### 3G

- A cellular data service available from mobile network providers.
- Coverage is anywhere with 3G signal- Nationally and Internationally. Data charges will apply.

In order to set up and use the WiFi and/or 3G MDR models, IT infrastructure, services and hardware such as servers will be required.

# Case Study

## Palletways sees huge benefits from fitting Brigade's Mobile Recording System

The Palletways Group provides an express delivery solution for consignments of palletised freight, and is the leading dedicated pallet network in Europe.

With vehicles operating in a variety of environments, some amount of vehicle damage is inevitable. Palletways wanted to reduce the number of accidents occurring to prevent costs associated with vehicle damage and improve safety.

They fitted Brigade Electronics Backeye® camera-monitor system, to improve driver visibility, and also the MDR recording system.

The results were impressive as General Manager, Ken Bromage explains: "We fitted ten vehicles with Brigade's MDR.



Our insurance company paid for half of this. During the course of the year insurance claims dropped by 47% and the claims value fell by 57%. The insurance premium dropped by 27% the following year. The cost of the equipment had seen a threefold return in the first year."

In addition to insurance claims, Palletways also saw a dramatic decrease in accidents due to the four camera system, installed to improve all round visibility...

With such obvious benefits, the business case for fitting Brigade's camera monitor system and digital recording combination is obvious. MDR quickly pays for itself saving time from lengthy investigations and money on bottom line profits.



...“Of the ten vehicles fitted with Brigade's camera systems, we had zero reversing accidents in the year, compared with six the previous year. Lane changing incidents

dropped from ten to four and we were able to prove to the insurance company it was the third party that had caused an incident by showing the MDR footage.”

Ken Bromage, General Manager, Palletways



To order or for more information on  
Brigade's vehicle safety solutions;  
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[www.origingps.co.uk](http://www.origingps.co.uk)

Brigade's extensive portfolio of safety systems includes:

- **360° camera monitor systems**
- **Camera monitor systems**
- **'White sound' reversing and warning alarms**
- **Radar obstacle detection systems**
- **Mobile digital recording**
- **Ultrasonic obstacle detection systems**

