



# DATA SHEET Clubman-3 DVR

ST8384 PAL / NTSC

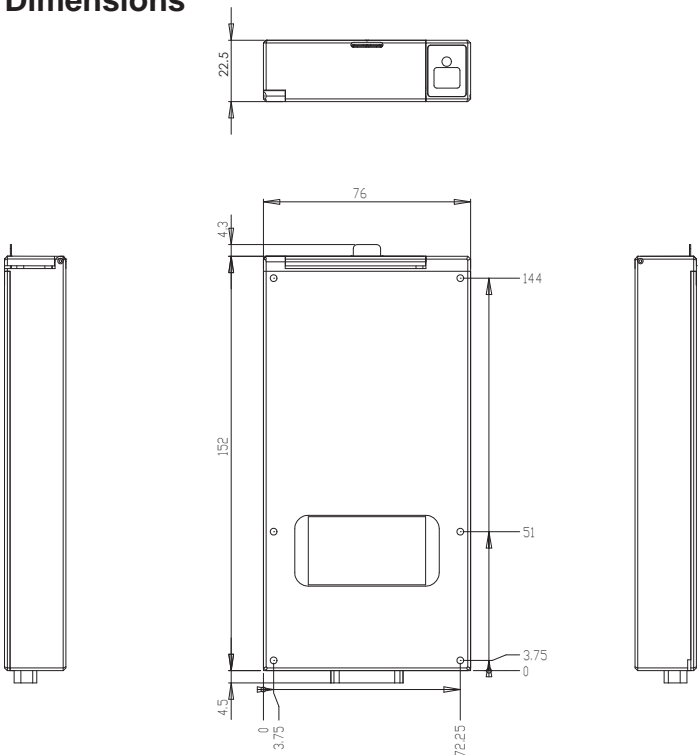
Stack's new range of Digital Video Recorders combine ruggedness, reliability and recording quality with a slim, lightweight design that's perfect for all motorsport competitors and trackday enthusiasts.

Stack's digital video recorders employ broadcast standard MPEG-2 video compression to record high quality real-time video and audio direct to a Compact Flash (CF) card. The card can be removed with ease and played on a PC or laptop using a standard media player application. Recordings can be archived direct to DVD for playback on either a PC or a DVD player.

## Key Features

■ Solid-state, no moving parts, ensuring reliable operation year after year
■ 7 Fixed Bit-rates (1 Mbps Min. 10 Mbps Max.)
■ Up to 3 camera inputs (composite PAL or NTSC)
■ 16:9 Widescreen or 4:3 screen ratios
■ 14-140 Mins/Gbyte @ full resolution
■ 0 to 50°C (32 to 122°F) operating temperature range
■ 32 GB maximum card size
■ 9 to 20V DC powered
■ External status LED
■ Sealed memory card door (when closed)
■ Real-time date & time overlay data overlay
■ 3 axis G-sensor data overlay
■ GPS data overlay option (NMEA 0183 Interface)
■ Motion-controlled (3-axis) recording control

## Dimensions



## Connectors



3.5mm AV Jack, 15 W "D", Micro-USB

## Standard Components

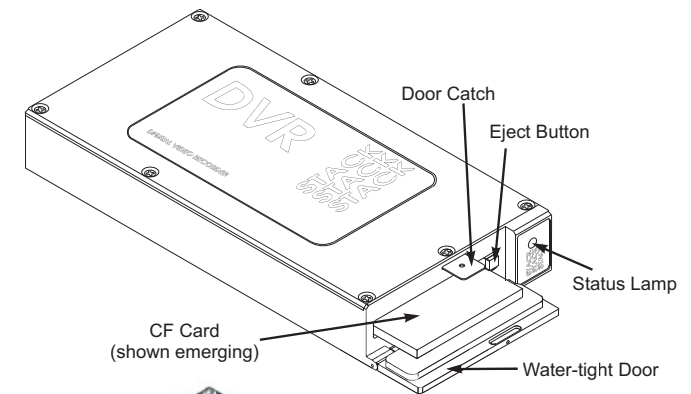
The Clubman-3 DVR is supplied with the following standard components:

Clubman-3 DVR Module	ST990066	1
Clubman-3 DVR Harness	ST918109	1
Switch & LED Harness	ST918105	1
USB A to Mini B Lead	ST169049	1
4 way 3.5mm Jack – Phono Audio Lead	ST169021	1
Configuration Software	ST920039	1
Clubman-3 DVR User Guide	ST542112	1

## Optional Components

Clubman-3 DVRs may be supplied with the following optional components:

DVR to VS Adapter Harness	ST900144
Bullet Camera- PAL, 560 TVL, 0.1 Lux	ST8393
Bullet Camera- NTSC, 560 TVL, 0.1 Lux	ST8394
Microphone	ST8397
CAM plug to BNC & Power lead	ST918106
GPS Receiver and Data Overlay Option	ST8398
1 GB Harsh Environment Compact Flash memory card	ST390051
2 GB Harsh Environment Compact Flash memory card	ST390052
4 GB Harsh Environment Compact Flash memory card	ST390053
8 GB Harsh Environment Compact Flash memory card	ST390054
16 GB Harsh Environment Compact Flash memory card	ST390055
32 GB Harsh Environment Compact Flash memory card	ST390056



## Stack Clubman-3 DVR Specifications

<b>GENERAL</b>	
Mechanical Size	151 x 76 x 21mm
Finish	Hard Anodised Al
Weight	380g without card
Operating Voltage Range	9V to 20V DC
Power Consumption:	~5W
Connectors	15 W "D", 3.5mm AV Jack, Micro-USB
<b>ENVIRONMENTAL*</b>	
Operating Temperature Range:	
Not powering cameras	0 to 50°C (32 to 122°F)
Powering cameras	0 to 50°C (32 to 122°F)
Sealing	CF door only
<b>STORAGE MEDIUM</b>	
Storage Medium	Compact Flash
Maximum Card Size	32GB
File Format	MPEG-2; Windows Media Player & DVD compatible
<b>RECORDING - VIDEO</b>	
Number of video inputs	3
Video Standards Supported	PAL/NTSC
Video input multiplexing options	Any format of 1 to 3 cameras on one screen (with programmable scale, mirror, crop and position)
Composite Video Input	Composite 1V pk-pk
Video Frame Rate	PAL 25fps; NTSC 30 fps
Video Monitor Output	1 V pk-pk Composite
Compression Format	MPEG-2
Resolutions Supported	16:9 Widescreen, D1; 2/3D1; 1/2D1, SIF
Quality - bitrate (at D1 resolution)	7 Fixed Bit-rates (1 Mbps Min. 10 Mbps Max.)
CF Record Time (at D1 Resolution)	14 to 140 Mins/Gbyte
<b>RECORDING - AUDIO</b>	
Number of channels	2
Input Level	Line Level +3 to -30dB
Input Impedance	> 10k Ohms
Audio Monitor Output	0dB (nominal)
Audio Monitor Output Impedance	<100 Ohms
<b>MISCELLANEOUS</b>	
G-sensor auto stop/start recording	Yes
Power up to Record start time	<20 Sec
Record Switch to Record start/stop time (in powered up state)	<0.1 Sec
Lost recording time between 2GB files	None
Max video loss if power lost while recording	<last 1 Sec
Configuration	Via USB
<b>DATA OVERLAY</b>	
GPS/G-force Data Overlay	Option
Real-time Performance Data Overlay	Expansion System Option (requires Stack Display/Steering Wheel System)

\*Specifications quoted dependent on use of appropriate CF cards and are guaranteed only with Stack supplied Harsh Environment cards.



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