

STACK STACK STACK® DATA SHEET

Clubman DVR

Digital Video Recorder for Harsh Environments

ST8381 PAL / NTSC

Stack's second generation video recorders have the same quality, reliability and compact design of the original Stack DVR, but now come in an expanded range.

For high quality video recordings on the move, Stack's miniature Solid-State Digital Video Recorders (DVRs) provide the optimum solution and are specifically designed for use in harsh environments.

Stack's DVRs 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.

The Clubman DVR operates from 0 to 50°C (32 to 122°F).

Key Features

- Solid-state, no moving parts, ensuring reliable operation year after year
- 6 Fixed Bit-rates (1 Mbps Min. 8 Mbps Max.)
- 17-136 Mins/Gbyte @ full resolution
- 0 to 50°C (32 to 122°F) operating temperature range
- 16 GB maximum card size
- 9 to 20V DC powered
- External status LED
- Sealed memory card door (when closed)



Connectors



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

Standard Components

The Clubman DVR is supplied with the following standard components:

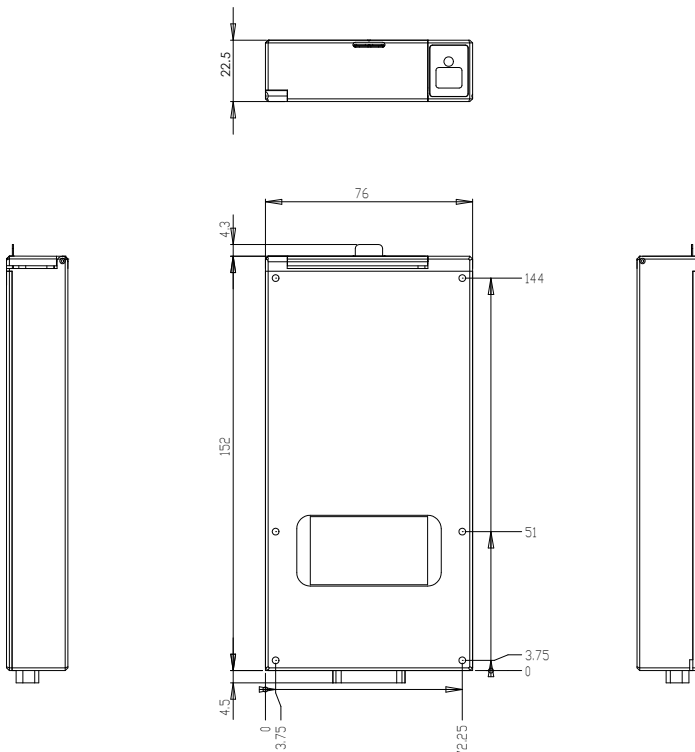
Clubman DVR Module	ST990066	1
Clubman DVR Harness	ST918104	1
Switch & LED Harness	ST918105	1
USB A to Mini B Lead	ST169049	1
4 way 3.5mm Jack – Phono Lead	ST169021	1
Configuration Software	ST920039	1
Clubman DVR User Guide	ST542099	1

Optional Components

Clubman DVRs may be supplied with the following optional components:

Bullet Camera & Microphone Kit (PAL)	ST8390
Bullet Camera & Microphone Kit (NTSC)	ST8391
DVR to VS Adapter Harness	ST900144
CAM plug to BNC & Power lead	ST918106
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

See over for specifications.



Specifications

Clubman DVR	
RECORDING - VIDEO	
Number of camera inputs	1
Video input multiplexing options	
Video Standards Supported	PAL/NTSC
Composite Video Input	Composite 1V pk-pk
Video Frame Rate	30 fps (NTSC); 25 fps (PAL)
Video Monitor Output	1 V pk-pk Composite
Compression Format	MPEG-2 MP@ML compression Program Stream
Resolutions Supported	PAL: 720x576, 480x576; 352x576, 352x288 NTSC: 720x480; 480x480; 352x480; 352x240
Quality - bitrate	6 Fixed (1 Mbps Min. 8 Mbps Max.)
CF Record Time	17-136 Mins/Gbyte
RECORDING - AUDIO	
Number of audio channels	2
Input Level	Mic or Line Level +3 to -30dB
Active Gain Control (AGC)	Yes
Compression Format	MPEG1 Layer II, 2 ch. 16 bit, 48 kHz
DISK INTERFACE	
Disk Interface	Compact Flash; FAT32
Maximum Card Size	16GB
Maximum File Size	2GB
File Format	MPEG-2; Windows Media Player & DVD compatible
MISCELLANEOUS	
Power up to Record start time	<20 Sec
Record Switch to Record start/stop time (in ready to record state)	<0.1 Sec
Lost recording time between 2GB files	<0.5 Sec
Max video loss if power lost while recording	<last 20 Secs
Configuration	Via USB
Real-Time Date & Time Overlay	No
ENVIRONMENTAL	
Operating Temperature Range	0C to 50°C (32 to 122°F)
Storage Temperature Range	
Sealing	
Humidity	
Vibration	
Radiated Emissions	
Shock	
Radiated Immunity	
Conducted Immunity	
GENERAL	
Mechanical Size	151 x 76 x 21mm
Finish	Hard Anodised Aluminium
Weight (without memory card)	300g
Operating Voltage Range	9V to 20V DC
Reverse/Over-voltage Protection	
Power Consumption (@ 12VDC)	~6W
Standby Battery	Life > 5 Years
Connectors	15 way "D" connector. 3.5mm AV Jack, Micro-USB



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