

STACK STACK STACK® DATA SHEET DVR2-240

ST9383 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 harsh environment applications.

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
■ 8 Fixed Bit-rates (1 Mbps Min. 12 Mbps Max.)
■ 11-140 Mins/Gbyte @ full resolution
■ Up to 4 fully configurable inputs
■ 16:9 Widescreen or 4:3 screen ratios
■ 0 to 60°C (32 to 140°F) operating temperature range
■ 32 GB maximum card size
■ 9 to 20V DC powered (20V-50V DC option)
■ Fully sealed to IP67
■ Mil-type "AS" connectors
■ External status LED
■ Sealed memory card door (when closed)
■ Real-Time date & time overlay
■ 3 axis G-sensor data overlay
■ GPS data overlay option (NMEA 0183 Interface)
■ Continuous Loop Recording modes.
■ Event Recorder mode, with pre- and post-trigger record periods.
■ Synchronised recording with Stack's data recorders.

Standard Components

The DVR2-240 is supplied with the following standard components:

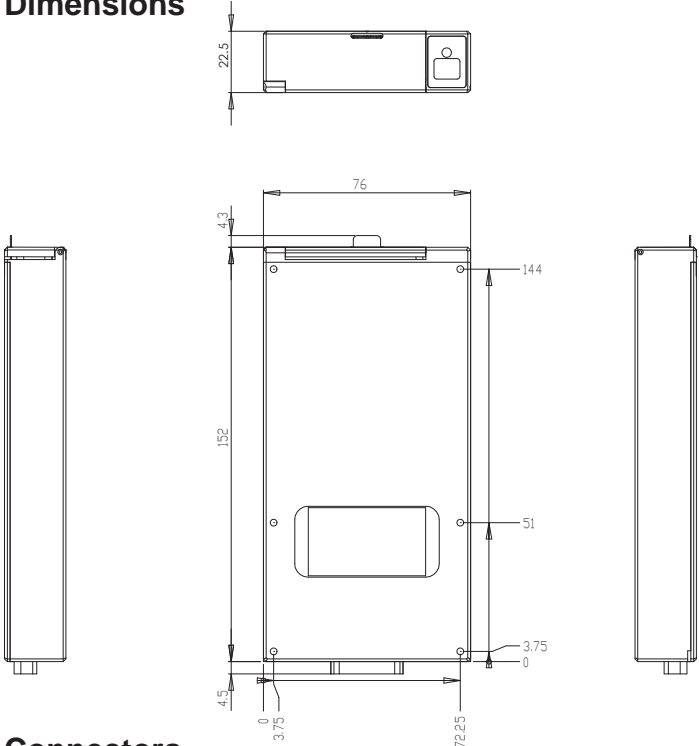
DVR2 Module	ST990063	1
DVR2 System Harness	ST918101	1
DVR2 Input Harness	ST918104	1
DVR2 Audio/Video Harness	ST918114	1
Switch & LED Harness	ST918105	1
Configuration Software	ST920039	1
DVR2 User Guide	ST542103	1

Optional Components

The DVR2-240 may be supplied with the following optional components:

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
24 GB Harsh Environment Compact Flash memory card	ST390056
32 GB Harsh Environment Compact Flash memory card	ST390057

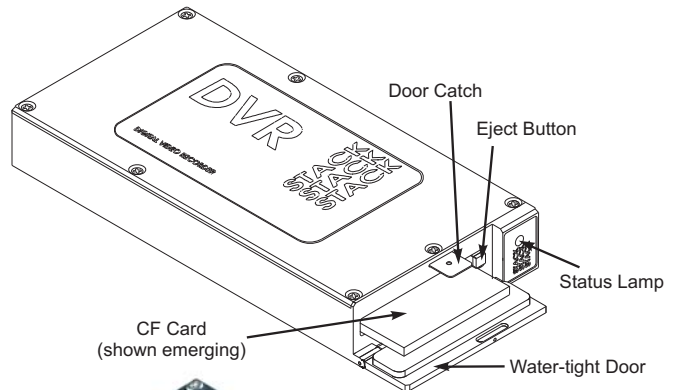
Dimensions



Connectors



2 x 9W DDAS plus 1 x 5W AS



Specifications: DVR2-240

RECORDING - VIDEO	
Number of camera inputs	4
Video input multiplexing options	Any format of 1 to 4 cameras on 1 screen (with programmable scale, crop and position)
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; 720x400; 480x576; 352x576, 352x288 NTSC: 720x480; 720x400; 480x480; 352x480; 352x240
Quality - bitrate	8 Fixed (1 Mbps Min. 12 Mbps Max.)
CF Record Time	11-140 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	32GB
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 1 Sec
Brownout Protection option	No
Configuration	Via USB
Real-Time Date & Time Overlay	1 Sec resolution
GPS Data Overlay (option)	1-20 Hz
3 axis G-sensor Data Overlay	12.5 Hz
GPS Receiver Interface (option)	1-20 Hz (NMEA 0183 Interface)
Continuous Loop Recording	Yes
Event Recording Mode	Yes
Pre-trigger Period	0 - 60 Mins
Post-trigger Period	0 - 24 Hours
Event Counter Data Overlay Option	Yes
ENVIRONMENTAL*	
Operating Temperature Range	0C to +60°C (32 to 140°F)
Storage Temperature Range	
Sealing	IP67
Humidity	0-100% RH Condensing
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 (20V-50V DC option)
Reverse/Over-voltage Protection	
Power Consumption (@ 12VDC)	~5W
Standby Battery	Life > 5 Years
Connectors	1 x 9W DDAS plus 2 x 5W AS

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



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In the interests of continuous product improvement, we reserve the right to alter without notice the specifications and features described in this leaflet. This leaflet shall not form part of a contract involving Stack unless stated in writing.

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