

STACK STACK STACK® DATA SHEET DVR2-100

ST9381 PAL / NTSC

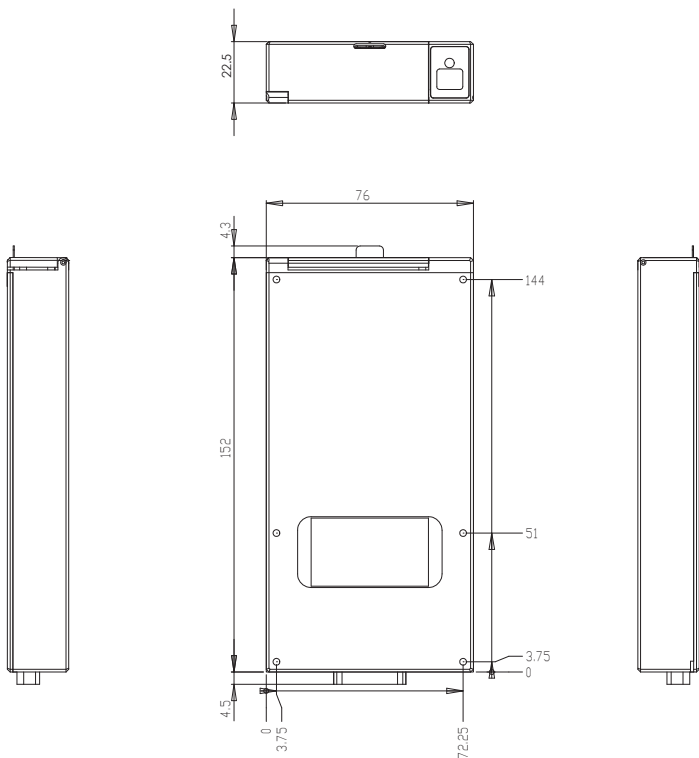
Stack's new range of Digital Video Recorders combine ruggedness, reliability and recording quality with a slim, lightweight design that's perfect for all harsh environment applications.

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
■ 7 Fixed Bit-rates (1 Mbps Min. 10 Mbps Max.)
■ 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 (20V-50V DC option)
■ External status LED
■ Sealed memory card door (when closed)
■ 3 axis G-sensor data overlay
■ GPS data overlay option (NMEA 0183 Interface)

Dimensions



Connectors



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

Standard Components

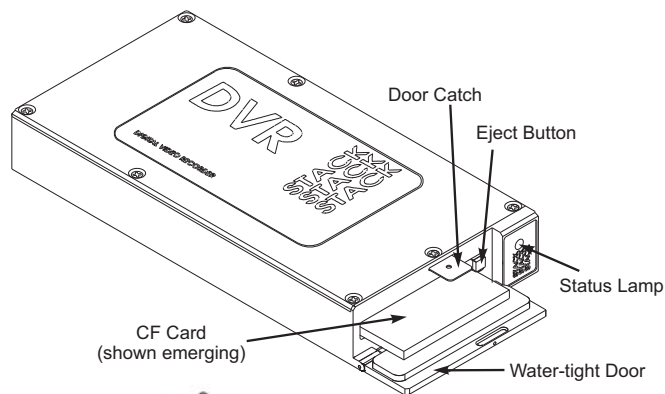
The DVR2-100 is supplied with the following standard components:

DVR2-100 Module	ST990066	1
DVR2-100 Harness	ST918109	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
DVR2 User Guide	ST542103	1

Optional Components

The DVR2-100 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
32 GB Harsh Environment Compact Flash memory card	ST390056



Specifications: DVR2-100

RECORDING - VIDEO	
Number of camera inputs	1
Video input multiplexing options	None
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	7 Fixed (1 Mbps Min. 10 Mbps Max.)
CF Record Time	14-140 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	None
Max video loss if power lost while recording	<last 1 Sec
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	1-20 Hz (NMEA 0183 Interface)
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 (20V-50V DC option)
Reverse/Over-voltage Protection	
Power Consumption (@ 12VDC)	~5W
Standby Battery	Life > 5 Years
Connectors	15 way "D" connector. 3.5mm AV Jack, Micro-USB

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



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