



# DVR3-130

## Digital Video & Data Recorder with 3 camera inputs

ST9374 PAL/NTSC

### Overview

Stack's new range of Digital Video Recorders (DVRs) can be used as a conventional DVR to record video and audio. Now they can also record data as well as video, in one compact unit, for the ultimate in Synchronized Video-Logging.

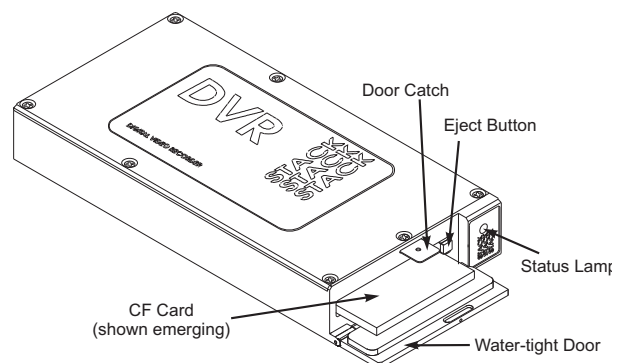
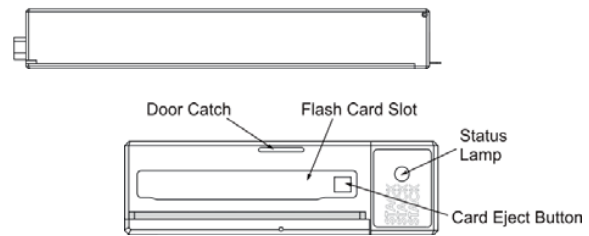
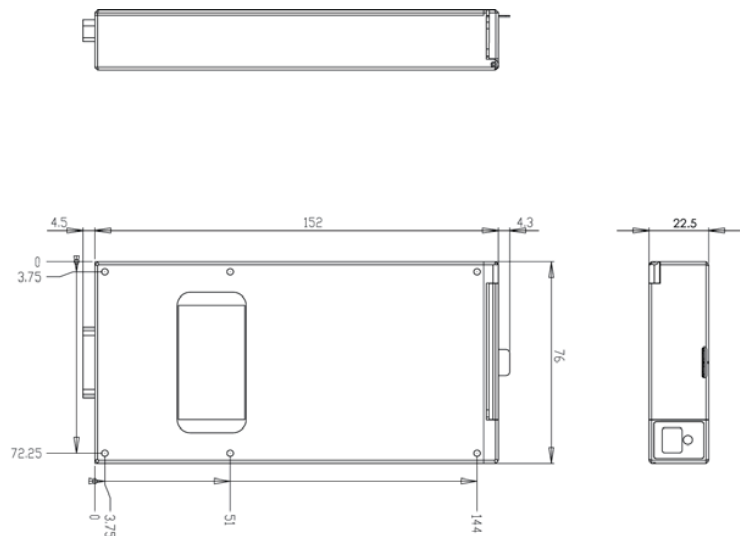
Stack DVRs can be connected directly to any Stack Dash Display or Data logging system by CAN Bus. Up to 128 channels of data, including GPS and the internal 3-axis G-sensor channels, can be recorded together with high quality MPEG-2 video and audio direct to a Compact Flash (CF) card. The video and data recordings can be analysed together in the supplied Stack DataPro analysis software. Video recordings can also be played back by any PC media player or archived and viewed on a DVD player.

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

### Highlights

- Video-Logging with synchronized recording of vehicle data channels.
- CAN bus interface for direct connection to Dash Displays and Logging Systems or ECUs.
- Data recording of up to 128 data channels at 1-500Hz sampling rates.
- Solid-state, no moving parts, ensuring reliable operation year after year.
- User configurable bit-rate up to 20 Mbps.
- Up to 3 fully configurable camera inputs (composite PAL or NTSC).
- 16:9 Widescreen or 4:3 screen ratios.
- 0 to 50°C (32 to 122°F) operating temperature range.
- 128GB maximum card size.
- Over 36 hours of high quality, full resolution recording (subject to CF card size).
- 9 to 20V DC powered (20V-50V DC option).
- External status LED.
- Sealed memory card door (when closed).
- Real-time date & time overlay data overlay.
- 3 axis g-sensor data overlay.
- Automatic "Alarms" start/stop recording using built-in g-sensor or any data channel.
- Continuous Loop Recording modes.
- Event Recorder mode, with pre- and post-trigger record periods.
- Connectors: 3.5mm AV Jack, 15 W "D", Micro-USB.

### Dimensions



## Specifications: DVR3-130

### RECORDING - VIDEO

Number of camera inputs	3
Video input multiplexing options	Any format of 1 to 3 cameras on one screen
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	User configurable bit-rate up to 20 Mbps.
CF Record Time	7 -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

### RECORDING - DATA

Data Recording	128 data channels at 1-500Hz sampling rates
----------------	---

### DISK INTERFACE

Disk Interface	Compact Flash; FAT32
Maximum Card Size	128GB
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	<0.1 Sec (in ready to record state)
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 option
3 axis G-Sensor Data Overlay	12.5 Hz
GPS Receiver interface	1-20 Hz (NMEA 0183 Interface)
CAN-bus Interface	Yes
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 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

## Standard Components

The DVR3-130 is supplied with the following standard components:

DVR3-130 Module	ST990066	1
Power Lead	ST918078	1
System Harness	ST918119	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
DataPro Software	ST920033	1
DVR3 User Guide	ST542103	1

## Optional Components

The DVR3-130 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 (5Hz)	ST8398
2GB Ruggedised High-Speed Metal Housing (-40°C to +85°C) CF Card	ST390052
4GB Ruggedised High-Speed Metal Housing (-40°C to +85°C) CF Card	ST390053
8GB Ruggedised High-Speed Metal Housing (-40°C to +85°C) CF Card	ST390054
16GB Ruggedised High-Speed Metal Housing (-40°C to +85°C) CF Card	ST390055
32GB Ruggedised High-Speed Metal Housing (-40°C to +85°C) CF Card	ST390057
8GB High-Speed Metal Housing (+10°C to +60°C) CF Card	ST390064
16GB High-Speed Metal Housing (+10°C to +60°C) CF Card	ST390065
32GB High-Speed Metal Housing (+10°C to +60°C) CF Card	ST390067
128 Channel Sync-Video Metadata Recorder option	ST8336-PIN
GPS Data Overlay option (20Hz)	ST9398

### Note

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



© Stack Limited 2011. Reproduction in whole or in part is prohibited without the written consent of Stack Ltd.

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.

290611-003

### Stack Limited

Bicester OX26 4UL UK.  
T: +44 (0) 1869 240404  
sales@stackltd.com  
www.stackltd.com

### Stack Inc

Sycamore, IL. 60178 USA.  
T: (888) 867 5183  
sales@stackinc.com  
www.stackinc.com

www.stackltd.com

DVR3-130 DATASHEET 2/2



www.instrumentation.it

Via Acquanera 29, 22100 COMO (Italy) tel. +39.031.525391 - fax +39.031.507984 - info@instrumentation.it

INSTRUMENTATION DEVICES SRL