

# STACK STACK® DATA SHEET

## PRO DVR

### Digital Video Recorder for Harsh Environments

ST8382 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.

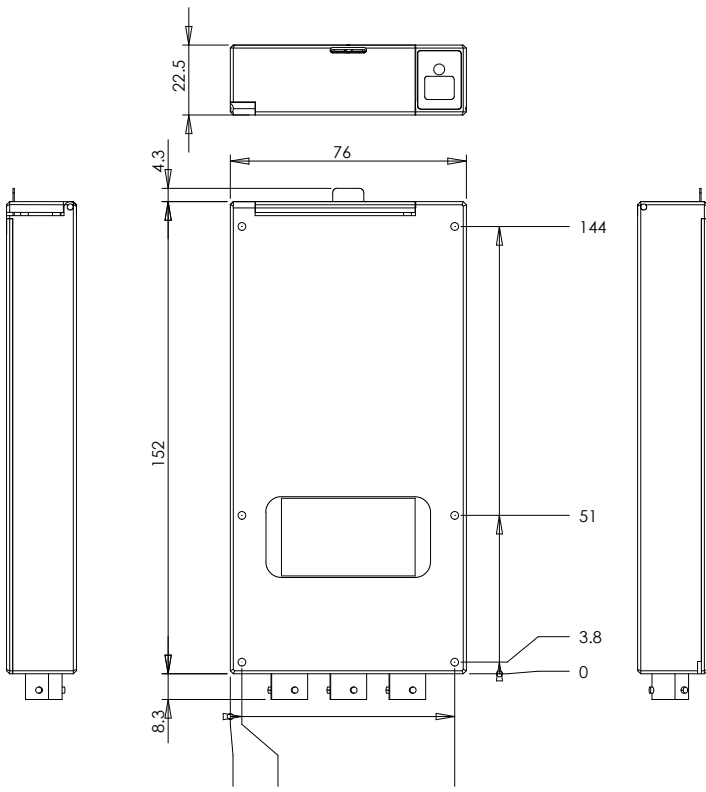
For high quality video recordings on the move, Stack's miniature Solid-State Digital Video Recorders (DVRs) provide the optimum solution and are specifically designed for use in harsh environments.

The DVR2 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.

The PRO DVR has an operating temperature range of 0 to 70°C (32 to 158°F).

### Key Features

■	Solid-state, no moving parts, ensuring reliable operation year after year
■	7 Fixed Bit-rates (1 Mbps Min. 10 Mbps Max.)
■	14-136 Mins/Gbyte @ full resolution
■	0 to 70°C (32 to 158°F) operating temperature range
■	16 GB maximum card size
■	9 to 20V DC powered
■	Waterproof
■	Mil-type "AS" connectors
■	External status LED
■	Sealed memory card door (when closed)



### Connectors



1 x 9W DDAS plus 2 x 5W AS

### Standard Components

The PRO DVR is supplied with the following standard components:

PRO DVR Module	ST990063	1
PRO System Harness	ST918101	1
PRO Input Harness	ST918102	1
PRO PC Harness	ST918103	1
Switch & LED Harness	ST918105	1
Configuration Software	ST920039	1
PRO DVR User Guide	ST542102	1

### Optional Components

PRO 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 full specifications.

# Specifications

<b>PRO DVR</b>	
<b>RECORDING - VIDEO</b>	
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	7 Fixed (1 Mbps Min. 10 Mbps Max.)
CF Record Time	14-136 Mins/Gbyte
<b>RECORDING - AUDIO</b>	
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
<b>DISK INTERFACE</b>	
Disk Interface	Compact Flash; FAT32
Maximum Card Size	16GB
Maximum File Size	2GB
File Format	MPEG-2; Windows Media Player & DVD compatible
<b>MISCELLANEOUS</b>	
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
<b>ENVIRONMENTAL</b>	
Operating Temperature Range	0C to +70°C (32 to 158°F)
Storage Temperature Range	
Sealing	Waterproof
Humidity	0-100% RH Condensing
Vibration	
Radiated Emissions	
Shock	
Radiated Immunity	
Conducted Immunity	
<b>GENERAL</b>	
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	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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