

DR1 MPEG2 Flashcard Video Recorder



The DR1 is a very rugged and compact digital video recorder (DVR) especially designed for use in covert or harsh environments. The DR1 utilises broadcast standard MPEG2 video compression to record high quality real-time video and audio to Compact Flash (CF) memory cards. Once a recording has been made, the flash cards may be removed and immediately viewed on a hardware CF media player or a PC.

As DR1 files are fully MPEG2 compliant, standard applications may be used view, edit and archive recordings to disk or DVD.

The recorder is DC powered and has stereo audio inputs at microphone or line level. The system is easily configured for video quality, audio and triggered recording via its RS232 port and a PC application.

Housed in small, rugged metal enclosure built to IP68 standards, the DR1 is ideal for use where other tape or disk-based recorders fail. It contains no moving parts so recording in harsh environments, with continual shock and vibration over extended temperatures (-10 to +60°C) and in damp or dusty conditions is now possible.

With its excellent video performance, ease of playback, compact size and rugged construction the DR1 is the ideal solution for covert, body-worn video or onboard recording applications.

Specification

General:

Operating temperature range	0 to +45°C (-10 to + 60°C optional).
Mechanical size	120x80x30mm..
Finish	Hard anodised aluminium, protection to IP68
Weight (housed, no cards)	308g
Operating voltage range	6 to 15 V DC.
Power consumption	< 3 Watts.
Current consumption at 12 V	215 mA (approx.) whilst recording.
Standby current consumption	< 220 uA.
Disk interface	Compact Flash (CF) Card.

Input / output connector	25 way D-Type socket.
On-screen display	Date & time (various positions / formats).
Record control	Record on contact to Gnd or Triggered record for preset time.
Video:	
Video standards supported	PAL (625 lines), NTSC (525 lines) Composite & S-Video.
Video compression	MPEG-2.
Video input level	1 Vpp \pm 10%, 75 Ohm.
Digital sampling (PAL)	576 lines by 720 pixels. (lower resolutions possible)
Power up to record time	< 2 seconds.
Video monitor output	1 Vpp \pm 10%, 75 Ohm. (includes on-screen display)
Record time (approx)	very high quality: 15 mins / Gbyte, high quality: 25 mins / GByte, low quality: 1 hour / GByte

Audio:

Number of channels	2.
Input level	+3 to -30 dBV (adjustable) .
Input impedance	> 10 K Ohm.
Mic bias	3.3 V DC, 1 K Ohm.
Audio monitor output	0 dBV (nominal).
Audio monitor output impedance	< 100 Ohm .

Accessories

- DR1 accessories available from Drivedata:
- Cameras (bullet, board, low light)
- Remote controls (wired, wireless)
- 'Pod' breakout box with built in mic, record switch, camera & audio connections
- Batteries & chargers
- Quick mount system for temporary installations
- Wiring Looms
- Advanced voltage regulator/filter
- Multi-camera multiplexers (Picture-in-picture, configurable quad)