

DR3 MPEG2/4 Digital Video Recorder



Description

The Drivedata DR3 MPEG2/4 digital video recorder provides MPG/AVI video recording with 720x576 25fps resolution (PAL) and 720x480 30fps (NTSC). Video footage is recorded directly onto a standard Compact Flash card. At its highest quality setting, it records approx. 15 minutes of DVD quality video & audio per 1GB of storage. The unit itself is very small and light, measuring a mere 87x70x23mm and weighing 220g (with built in rechargeable Li-ion battery).

The unit comes as standard with 1 camera input and LCD text display. Versions are available with built in 2.4" TFT preview monitor, on screen lap-timer and 4 video inputs with built in picture-in-picture & quad functions.

The recorder offers two encoding formats, MPEG-2 for DVD/archive and MPEG4 (DivX .AVI) for web uploading and streaming video.

Features

- Built-in rechargeable Li-ion battery for approx. 3 hours of recording
- Battery and external power can be swapped uninterrupted
- Video bit rate up to 8Mbps
- Full frame rate : PAL(25fps), NTSC(30fps)
- Support PAL/NTSC/SECAM standards
- Resolution : Full-D1, SIF, CIF
- Supports ADPCM Audio Format
- Audio Sampling : 8/16/32/48KHz
- Built-in IR remote controller
- Optional built-in GPS receiver for on-screen GPS data
- Optional IR lap timer support for on-screen lap times
- Optional 4-input version with built-in quad & PIP functions
- Supports LANC remote controllers (Drivedata model: CES)
- Loop recording mode for continuous video recording on the same CF card
- External Microphone and camera can be powered from the recorder
- Built-in auto record using motion detection
- LEDs/display/buzzer for visible/audible indication of status
- Small in size and light in weight (only 220g including battery)
- User-upgradeable firmware



Video Quality

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|--------------------|---------------------------------|
| • CIF/SIF quality: | Records video at 1Mb/s bitrate. |
| • Low quality | Records video at 2Mb/s bitrate. |
| • Medium quality: | Records video at 4Mb/s bitrate. |
| • High quality: | Records video at 6Mb/s bitrate. |
| • Highest quality: | Records video at 8Mb/s bitrate. |

The recorded file size is dependent on the complexity of the scene being recorded. The following are estimated recording times:

- CIF/SIF quality: 100 min/GB
- Low quality: 60 min/GB
- Medium quality: 40 min/GB
- High quality: 25 min/GB
- Highest quality: 15 min/GB

Larger CF cards give longer recording time. The current supported card sizes are 512MB to 32GB.

Low/Medium quality modes are recommended for slow moving or still background scenes with some moving objects in front. Higher quality modes are recommended for fast moving background scenes and extreme sports.

Technical Specification

Power:

AC Adapter: 12VDC 500mA, 110-240VAC Adapter
 Internal Battery: 1x3.7V Lion rechargeable battery, 3500mAH.
 Camera Power: 12V 200mA output, 5-12V optional
 Consumption: ~300mA at 12VDC during recording

Video:

Channels: 1 or 4 (with built in multiplexer)
 Video Stream: MPEG-4 / MPEG-2 selectable
 Resolution: Full-D1 - PAL:720x576, NTSC:720x480; Half-D1 - PAL:576x352, NTSC:480x352; SIF - 352x240 (NTSC) optional; CIF - 352x288(PAL) optional

Bit Rate: 1M-8Mbps, six level adjustable
 Frame Rate: PAL(25fps), NTSC(30ps)
 GOP: IP, IBP, IBBP
 Standard: PAL/NTSC/SECAM, Composite (S-Video Optional)
 Picture: Brightness/Contrast/Saturation Adj.
 Recording Modes: Single file or continuous loop recording modes

Audio:

Sampling: 8/16/32/48KHz, 16bits
 Format: PCM/ADPCM
 MIC Bias: 2.2VDC, 2.2Kohm
 Microphone/Inputs: Built in mono mic, ext. mono mic input, stereo mic input

Software:

Firmware: Upgradeable, Linux OS.
 Configuration : PC Dasektop GUI Utility

Storage:

CF Card: 512MB-32GB expandable
 Disk Format: FAT32

Displays:

LCD Display: 2 line LCD display for configuring using front panel buttons
 Optional LCD Monitor: 2.4" TFT Preview Monitor (does not support playback)

Playback:

PC: Via CF card using PC utility or software media player

Interfaces/Ports:

(Standard)

Video In RCA/Phono Jack
 Audio In 3.5mm Stereo jack
 Power in 4.2mm x 1.3mm jack
 Power out (camera) 5.5mm jack
 LANC control 2.5mm LANC jack
 Ethernet 10/100 Base-T

(Optional)

DIO 2 Digital I/O
 Lap Timer beacon 2.5mm jack
 Serial Port RS232
 GPS connection MMCX Female

Physical:

Size: 87x70x23mm (Include battery)
 Casing: Black aluminum
 Weight 220g (Including battery)