

SONY



## DVO-1000MD

Medical DVD Recorder

### The simplicity and power of DVD recording - an essential part of your medical imaging system



Sony now makes all the advantages of the DVD format available to clinicians who need to record high-quality images. Fully compliant with latest Medical Devices Directive (MDD) standards, the DVO-1000MD is a DVD Recorder that has been optimised for use in a wide range of surgical and other healthcare environments. Ideal for applications such as ultrasound, endoscopy and radiology, the DVO-1000MD allows recording and playback of images from a wide range of visible and non-visible light modalities. Compact, ruggedly-engineered and easy to use, the DVO-1000MD offers all the benefits of removable disc media over S-VHS tape. These include digital image quality and near-instant browsing and access to files, plus low media costs and reduced library space requirements.

### Features

#### Long recording time

The DVO-1000MD provides a long recording time of up to 3 hours on a single disc. Three recording modes are available, depending on the picture quality and recording duration required :- HQ Mode : 60 minutes SP Mode : 120 minutes LP Mode : 180 minutes

#### Quick random access by title and chapter

The DVO-1000MD makes records as 'Titles' - recording segments from when the REC button is pressed until the STOP button is pressed. Within a Title, you can set

'Indexes' to images of interest by pressing the PAUSE button during recording. A segment between two index points is handled as a 'Chapter'. When playing back the disc, quick access to the top of a title or chapter is possible with the press of a button.

#### High speed colour picture search

The DVO-1000MD offers +/-3 times normal speed playback as standard. Using an optional control panel such as SVRM-100A or DSRM-10, +/-10 times normal speed playback becomes available with easy-to-use Jog/Shuttle dial operation. Furthermore, a maximum +/-30 times normal speed playback is possible from other medical equipment connected using the RS-232C protocol.

#### Variety of remote controls

For remote control from other medical equipment, the DVO-1000MD supports the RS-232C protocol - widely used in the Sony SVO-9500MD S-VHS Medical VTR. Three remote control units are also available as options : SVRM-100A, DSRM-10 and FS-20. A USB 2.0 (Full Speed) interface is also provided.

#### Wide range of inputs

The DVO-1000MD is equipped with a wide range of interfaces including analogue composite, S-Video and analogue audio I/Os and an audio monitor output. An i.LINK (DV) input is also provided, facilitating high-quality digital video recording with minimal signal degradation.

#### PAL/NTSC switchable

The DVO-1000MD can be operated for both PAL (625) and NTSC (525) systems by a simple menu setting.

## Benefits

### Exceptional image clarity

The DVO-1000MD uses industry-standard MPEG-2 video compression. This allows images to be recorded with the exceptional clarity required in medical applications while optimising the use of disk spaces.

### Quick random access by title and chapter

You can quickly access a desired title or chapter simply by selecting it from a list that is automatically created and instantly displayed simply by pressing the 'LIST' button. These powerful random access capabilities significantly speed up the process of reviewing recordings after and examination.

### Instant recording and extra security

Thanks to the built-in 80GB Hard Disk Drive (HDD), recording begins the moment the REC button is pressed. What's more, the HDD provides even more security for your recordings because you won't lose data in the

unexpected event of power outage in recording or damage onto the DVD disc.

### Low cost and wide interoperability of media

Adopting the inexpensive DVD+RW format of removable disc media, the DVO-1000MD offers playback compatibility with a wide range of devices. The DVD+RW media is low-cost and eliminates the need for a finalisation process after recording. It also has an extremely long life, making it ideal for long-term archiving as well as giving obvious space-saving benefits compared to VHS tapes.

### Patient data handling

The DVO-1000MD facilitates the recording of patient data on the disc, making data management much easier in subsequent diagnostic procedures.

### For use in medical environments

Compliant with medical regulations, the DVO-1000MD has been designed for use in medicine - it is intelligently-designed, with features and specifications built especially for this environment.

## Technical Specifications

### General

Power requirements	AC 100V to 240V, 50/60 Hz
Dimensions	212 x 128.5 x 382 mm
Mass	6kg
Recording Format	Video: MPEG-2 compression Audio: Dolby Digital format
Recording Media	DVD+RW (2.4x and 4x speed)
Medical Standards	EN60601-1, DN60601-1-2, UL60601-1, CSA C22.2 No.60601.1

### Input/Output

Analogue Composite Input	BNCx2, with loop-through
S-Video Input	4-pin DINx2, with loop-through
Analogue Composite Output	BNCx1
S-Video Output	4-pin DIN x 1
Analogue Audio Input	RCA Pin x 2 (L/R)
Analogue Audio Output	RCA Pin x 2 (L/R)
Monitor Audio Output	Monitor RCA Pin x 1
i.LINK (DV IN)	i.LINK 6-pin x 1, IEEE1394
Remote Control	RS-232C x 1, D-sub 9-pin Remote 1 x 1, stereo mini jack (for SVRM-100A and DSRM-10 controllers) Remote 2 x 1, stereo mini jack (for FS-20 foot switch) USB 2.0 x 1 (full speed)

### Supplied Accessories

Canopus DVD InfoEditor	Editing Software
DPW120MD	DVD+RW Blank Disc
Protocol Manual	
Operation Manual	

**Accessories****Accessories****DSRM-10**

Remote control unit