

SONY



HVO-550MD/HVO-500MD

HD Video Recorders

From patient records to education, training and referral to other physicians, modern medical workflows benefit from the increased convenience and detail offered by HD video recording.

The HVO-550MD and HVO-500MD HD Video Recorders have been designed for use in a variety of clinical environments, including hospital radiology and operating rooms, surgical centers and doctors' offices.

Suitable for storing High Definition videos from ultrasound, digital X-ray, endoscopic, laparoscopic and other compatible diagnostic and surgical imaging systems, the recorder offers extensive connection options.

These recorders store HD or Standard Definition video on its high-capacity internal hard disk drive. Via simple menu selection, videos can be recorded simultaneously to an external USB drive or network server, or burned directly to the recorder's internal DVD drive.* This simultaneous recording capability saves time, eliminating the need to export or copy video files to another storage medium after recording. It also provides an extra safeguard against the risk of losing valuable data.

The recorder is the ideal replacement for the DVO-1000MD. Sharing the same command set for control via RS-232C or USB, it offers a smooth migration to a hard-disk-based HD workflow.

* DVD drive only available on the HVO-550MD.

Key Features

High Definition video recording

Recording crisply-detailed HD video at up to 720p, these recorders offer an improvement in image quality over Standard Definition recording devices such as the DVO-1000MD.

Simultaneous recording on internal HDD and external media

To minimize the risks of accidental data loss, video files can be recorded onto the internal hard disk drive simultaneously with a DVD*¹, a connected USB drive or a network server. This also helps to shorten workflow, since videos do not need to be exported or copied onto another device after being recorded onto the internal HDD.

Burn files to DVD*¹

Video files can be burned permanently onto the recorder's internal optical disc drive (DVD-R) for convenient storage and longer-term archives.

Compatible with DVO-1000MD commands

These recorders share the same command set as the Sony DVO-1000MD DVD recorder. This simplifies migration from the DVO-1000MD to benefit from HD recording as well as HDD-based workflows.

Wide range of interfaces and network data transmission

These recorders are compatible with a wide range of modalities, including current HD as well legacy SD devices. Interfaces are provided for HDMI, DVI, composite video, S-Video and audio, as well as networked data transmission through CIFS to a centralized server.

Long recording time, even in HD at best image quality settings

The recorder's high-capacity disk drive allows long video recordings without interruption, even in High Definition. A choice of three Image Quality settings (Standard/High/Best) permits between 60 and 194 hours of HD video recording (or between 158 and 348 hours of SD video). Each individual recording can be up to 24 hours long. Videos can be exported as either high quality AVCHD or PC-friendly MP4 files.

Compliance with Medical Safety Standards

These recorders are compliant with and certified for IEC 60601-1 and product safety standards in the U.S.A., Canada, and Europe.*²

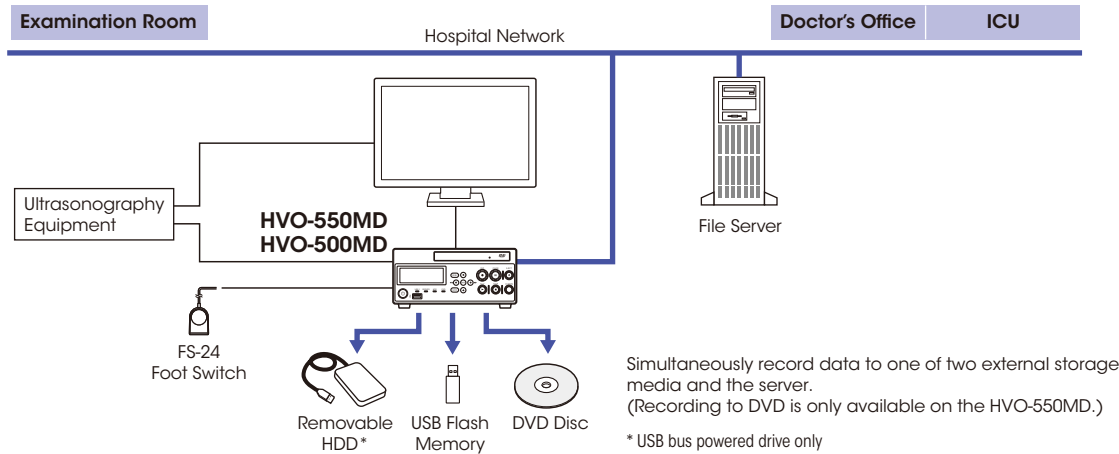
*¹ DVD drive only available on the HVO-550MD.

The HVO-550MD is classified as a Class 1 laser product as specified by the IEC 60825-1 standard.

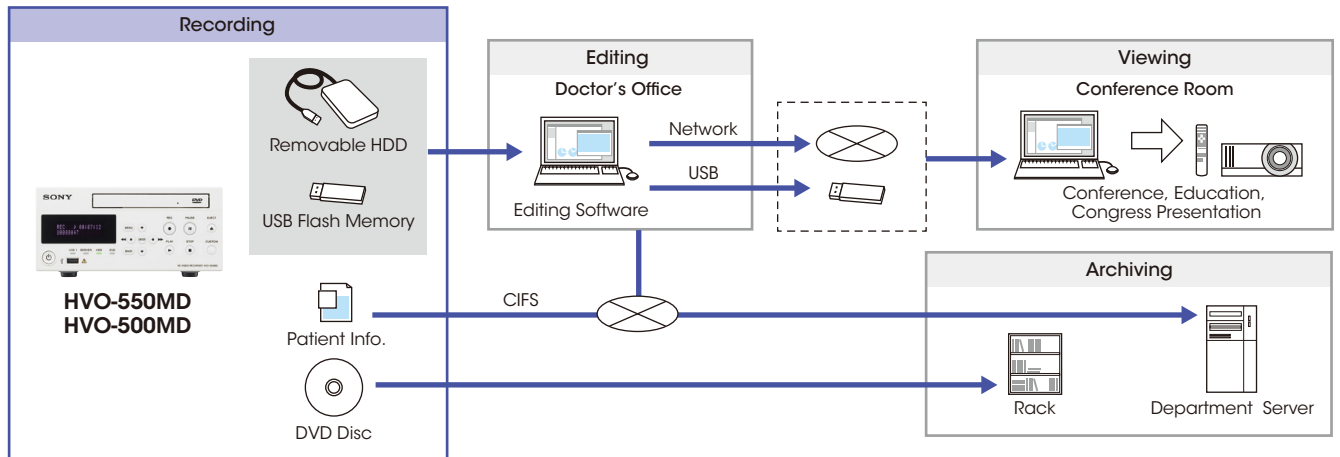
*² Registration status as a medical device may vary, depending on country.

For more details, please contact your nearest Sony office or an authorized dealer.

System Configuration



Work Flow



Front and Rear Panels

Front Panel



Front Panel



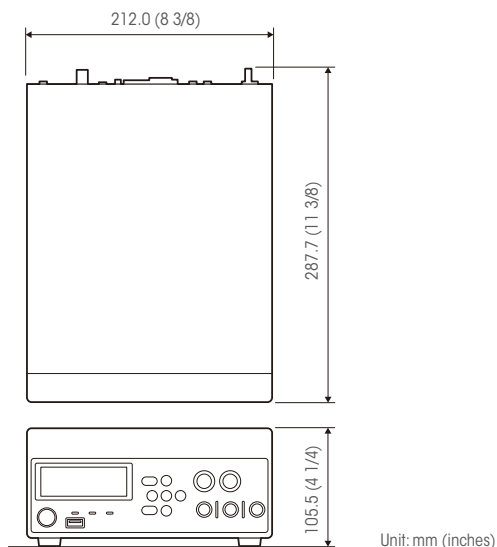
Rear Panel



Specifications

	HVO-500MD	HVO-550MD
Recording Features		
Recording Video Format	MPEG-4 AVC/H.264	
Recording Audio Format	AC-3/AAC LC	
Recording File Format	AVCHD/MP4	
Recording Media	Internal HDD (500GB), External USB Storage, Network (CIFS)	Internal HDD (500GB), DVD-R, External USB Storage, Network (CIFS)
Recording Resolution	1280 × 720/59.94p, 1280 × 720/50p, 720 × 480/59.94i, 720 × 576/50i	
Recording Bit Rate (HD)	14Mbps (Best), 8Mbps (High), 4Mbps (Standard)	
Recording Bit Rate (SD)	5Mbps (Best), 3Mbps (High), 2Mbps (Standard)	
3D Recording	-	
Connectors		
Input Connectors	HDMI (Type A) (1), DVI-D (DVI 19-pin) (1), S VIDEO (Mini DIN 4-pin type) (1), VIDEO (BNC type) (1)	
	AUDIO (Stereo mini jack) (1)	
	DC IN (DIN 3-pin)	
Output Connectors	HDMI (Type A) (1), DVI-D (DVI 19-pin) (1), S VIDEO (Mini DIN 4-pin type) (1), VIDEO (BNC type) (1)	
	AUDIO (Stereo mini jack) (1)	
Other Interfaces	USB (Type A) (3), USB (Type B) (1), Network (RJ-45, 1000 Base-T/100 Base-TX) (1), REMOTE RS-232C (D-sub 9-pin) (1), REMOTE contact switch (stereo mini jack) (2), REMOTE MONITOR (RJ-45) (1), Equipotential	
General		
Power Requirements	+12 V to +24 V DC (supply from AC-80MD AC adaptor)	
Input current	3.2 A to 1.6 A	3.5 A to 1.8 A
Operating Temperature	5°C to 40°C (41°F to 104°F)	
Operating Humidity	20% to 80% (Maximum wet-bulb temperature: 30°C (86°F)) (no condensation)	
Operating Pressure	700 hPa to 1060 hPa	
Storage and transport temperature	-20°C to +60°C (-4°F to +140°F)	
Storage and transport humidity	20% to 90% (Maximum wet-bulb temperature: 30°C (86°F)) (no condensation)	
Storage and transport pressure	700 hPa to 1060 hPa	
Mass	2.9 kg (6 lb. 6.3 oz.)	3.2 kg (7 lb. 0.88 oz.)
Dimensions (including longest protrusions)	212.0 × 287.7 × 105.5 mm (8 3/8 × 11 3/8 × 4 1/4 in.)	
Supplied Items	Before Using This Unit (1), CD-ROM (Instructions for Use, PROTOCOL MANUAL) (1), Warranty booklet (1), AC-80MD AC adapter (1), AC-80MD Instructions for Use (1), Service Contact List (1)	

Dimensions



Optional Accessory



Foot Switch
FS-24*

* The FS-24 has an ingress protection rating of IPx3 and therefore should not be operated in environments liable to liquid splashes (e.g., a surgical operating room). For safety, devices with a rating of IPx6 or higher should be selected for that type of environment.

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 Registration status as a medical device may vary, depending on country.
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