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Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

syn@nt-rt.ru || <https://sonymed.nt-rt.ru>

Dependable recording in the O.R. made easy.



The HVO-3300MT 3D/2D HD Medical Video Recorder.



Capture, store, and share the images you need.

Introducing the new HVO-3300MT 3D HD video recorder. Whether you need simultaneous image recording, multiple modality support, surgical image capture, vital signs monitoring, or easier content archiving and management, this compact portable recorder provides images you can depend on.

The HVO-3300MT model enables simultaneous recording in a variety of surgical fields through an endoscope, ultrasound, digital X-ray, and other compatible imaging systems. It captures surgical procedures while recording 2D or 3D video images in HD quality. The built-in 3.5-inch LCD color display allows you to easily access and review images—images that can be used in patient records, and for training, education, and referral.

This recorder is ideal for use in hospital operating rooms, medical imaging centers, surgical centers, clinics, and doctors' offices.

Key features

3D/2D Full HD video recording

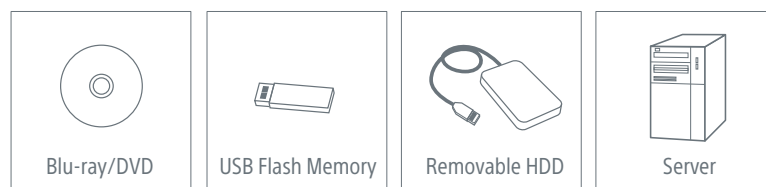
In addition to 2D full high-definition images, the HVO-3300MT recorder supports 3D images from endoscopes and surgical microscopes. Just select input signal formats from the menu to access various 3D formats: side-by-side, line-by-line, and dual stream.

Two-channel recording

Simultaneously record two separate channels of video, such as images from a connected endoscope and an O.R. camera. In addition, you can record footage not only in 3D, but also other content in 2D concurrently, making it easier to use and manage content.

Simultaneous recording onto external media

Record video files simultaneously onto the built-in internal hard disk drive, a Blu-ray™ / DVD disk, connected USB drive, or network server. This shortens your workflow, as there is no need to export or copy videos to external devices after recording on the internal HDD.



Network data transmission via CIFS & DICOM storage

Transfer recorded video footage on the HVO-3300MT recorder from the O.R. to a connected server, such as the Sony Content Management System (CMS) via CIFS over hospital networks.* You can access each recording quickly, eliminating the need to use an external media source to transfer the recording onto a PC. You can also use the HVO-3300MT recorder to transmit captured still image data in 3D or 2D to a PACS system using the DICOM protocol.

Proxy recording**

Record original full-resolution video data and smaller proxy data at the same time. This streamlines integration with Sony CMS—such as using full-resolution image files for clinical presentations—while also allowing lower-resolution proxy data to be archived or easily shared on tablets.

Bookmark index linkage**

Bookmarked indexes are recorded onto the video stream when you take a still picture or pause recording, for instance. Then these bookmarks can be linked directly into the connected Sony CMS to easily locate viewing/editing points on the CMS timeline.

Lightweight, compact design

This recorder is significantly slimmer and lighter than earlier models. The slim, compact design facilitates easy adjustment of the monitor position and saves space.

External touch panel capability

Use the HVO-3300MT recorder with an external touch panel monitor† for improved operability. For example, REC/STOP for each channel can be set independently, and data input (such as patient ID, name, gender, etc.) is simplified.

Compatible with previous models

While offering enhanced functionality, the HVO-3300MT model has command compatibility with previous-generation HVO-1000MD and HVO-3000MT recorders. All you do is set the required mode.

* Files are transferred using the file-sharing protocol CIFS (Common Internet File System) in Windows.

** These functions are available with Sony CMS version 2.1 or later.

† Requires an optional USB touch panel monitor.

Video Recording Time*

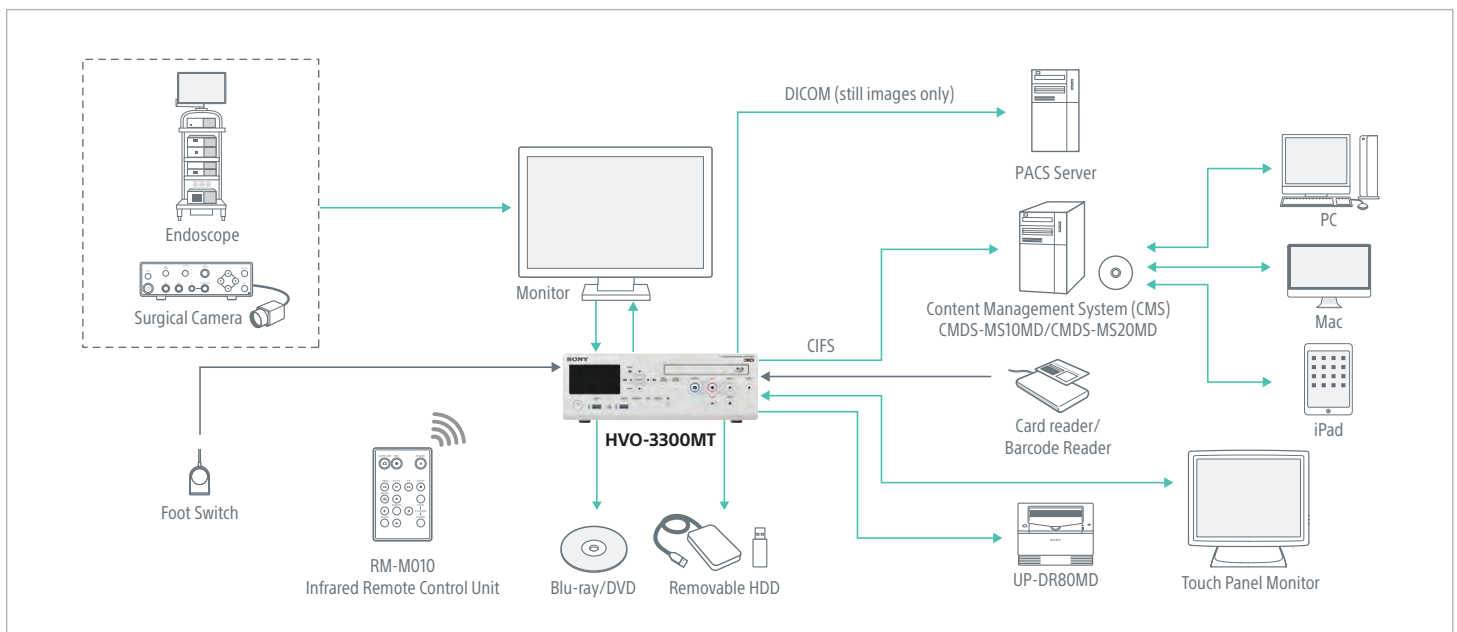
Recording Media		HD (3D or 2D)						SD (2D)		
		1920 x 1080p			1920 x 1080i / 1280 x 720p			720 x 480i / 720 x 576i		
		Best	High	Standard	Best	High	Standard	Best	High	Standard
		24 Mbps	18 Mbps	12 Mbps	20 Mbps	12.5 Mbps	6 Mbps	6 Mbps	4 Mbps	2 Mbps
Internal HDD	2 TB	168h 26min	267h 2min	375h 56min	185h 45min	375h 56min	644h 11min	644h 11min	879h 33min	1162h 46min
BD-R (SL)	25 GB	2h 22min	3h 55min	5h 50min	2h 37min	5h 50min	11h 26min	11h 26min	17h 49min	28h 22min
DVD-R (SL)	4.7 GB	25min	43min	1h 4min	28min	1h 4min	2h 5min	2h 5min	3h 15min	5h 10min
External media	1 TB	99h 56min	165h 31min	246h 24min	110h 55min	246h 24min	481h 46min	481h 46min	750h 39min	1195h 30min

Number of Recordable Still Images*

Recording Media		BMP/TIFF		JPEG					
		HD	SD	HD			SD		
				Best	High	Standard	Best	High	Standard
Internal HDD	2 TB	282,000	1,510,000	1,050,000	1,940,000	3,390,000	3,880,000	5,410,000	6,740,000
BD-R (SL)	25 GB	3,800	24,000	15,000	30,000	59,700	65,200	65,200	65,200
DVD-R (SL)	4.7 GB	690	4,380	2,740	5,470	10,800	16,200	32,000	65,200
External media	1 TB	160,000	1,010,000	634,000	1,260,000	2,520,000	3,780,000	7,500,000	14,700,000

* These specifications may vary according to the recording image format or writing conditions. They are for reference only, and are not guaranteed.

System Configuration



Specifications

HVO-3300MT	
Recording Features	
Recording Video Format	MPEG-4 AVC/H.264
Recording Audio Format	AAC LC
Recording File Format	MP4
Recording Media	Internal HDD (2TB) External USB Storage Network (CIFS) DVD-R BD-R SL/BD-R DL BD-RE SL/BD-RE DL
Recording Bit Rate (HD)	1080p 24 Mbps (Best), 18 Mbps (High), 12 Mbps (Standard) 1080i/720p 20 Mbps (Best), 12.5 Mbps (High), 6 Mbps (Standard)
Recording Bit Rate (SD)	480i/576i 6 Mbps (Best), 4 Mbps (High), 2 Mbps (Standard)
3D Recording	Side by Side, Top and Bottom (Input 3D Signals: Side by Side, Line by Line, Dual Stream)
Connectors	
Input Connectors	3G/HD/SD-SDI (BNC type) (2) DVI-D (Single link) (2) S-VIDEO (Mini DIN 4-pin type) (1) VIDEO (BNC type) (1) RGB IN (Mini D-sub 15pin) (1) AUDIO (Stereo mini jack) (1) MIC (Stereo mini jack) (1) AC Inlet (3-pin) (1)
Output Connectors	3G/HD/SD-SDI (BNC type) (1) DVI-D (Single link) (1) S-VIDEO (Mini DIN 4-pin type) (1) VIDEO (BNC type) (1) AUDIO (Stereo mini jack) (1)
Other Interfaces	USB 3.0 (Type A) (2) USB 2.0 (Type A) (4) USB 2.0 (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) (4) MENU MONITOR (Mini D-Sub 15-pin) (1) Equipotential
General	
Power Requirements	100 V to 240 V AC, 50/60 Hz
Input Current	1.25 to 0.52 A
Operating Temperature	41 °F to 104 °F (5 °C to 40 °C)
Operating Humidity	20% to 80% (Maximum wet-bulb temperature: 86 °F (30 °C)) (No condensation)
Operating Pressure	700 hPa to 1060 hPa
Storage and Transport Temperature	-4°F to +140°F (-20°C to +60°C)
Storage and Transport Humidity	20% to 90% (Maximum wet-bulb temperature: 86 °F (30 °C)) (No condensation)
Storage and Transport Pressure	700 hPa to 1060 hPa
Mass	Approx. 14 lb. 5.3oz. (Approx. 6.5 kg)
Dimensions (W x H x D)*	12 1/8 x 4 5/8 x 13 in. (305.0 x 115.5 x 329.0 mm) (including longest protrusions)
Supplied Items	Before Using this Unit (1) CD-ROM (Instructions For Use, PROTOCOL MANUAL) (1) Warranty Booklet (1) Service Contact List (1) Infrared remote control unit (RM-M010) (1) European Representative (1)

* The values for dimensions are approximate.

These products are distributed to US (FDA) and EU (MDD) as medical devices.
They satisfy product safety standards (e.g. IEC 60601-1).**

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

Related Products



LMD-3251MT
32-inch 3D LCD Monitor



UP-DR80MD
Digital Color Printer



CMDS-MS20MD/CMDS-MS10MD
Content Management System

Front and Rear Panels

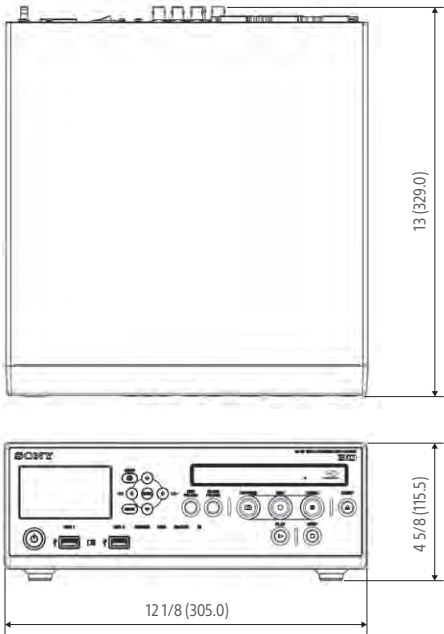


Front Panel



Rear Panel

Dimensions



Unit: inches (mm)



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