



**MITSUBISHI
ELECTRIC**

Changes for the Better



ISO 9001
JQA-0521

INDUSTRIAL-USE VIDEO CASSETTE RECORDER

MODEL

HS-MD3000U

Experience Superior Video Reproduction

Introducing Mitsubishi industrial-use VCRs.

Clean signals for clear, vivid image reproduction every time.

SVHS®

HS-MD3000U



Professional-use VCR packed with digital technologies for superior

Medical services demand high quality, and that's what Mitsubishi HS Series S-VHS VCRs provide. The S-VHS ET function is available on the S-VHS ET function devices used for medical services.

Only with S-VHS Superior Image Reproduction and Consistency

Super High Picture Quality

Easy-to-Operate Recording

Super-Fast

Over 400 Lines of Horizontal Resolution
"Even with VHS tape (HG)"

Compliant with S-VHS standard for new S-VHS ET recording technology. Obtain high picture quality equivalent to S-VHS recording using VHS tapes.

S-ET Play back Compatibility

Recorded tape	Play back VCR		
	S-VHS VCR	S-VHS VCR	VHS VCR
S-VHS Play back (recorded on S-VHS tape)	◎	◎	○*
S-ET Play back (recorded on VHS tape)	◎	◎	○*
VHS Play back (recorded on VHS tape)	○	○	○

*need SQPB function

◎: 400 lines resolution, S-VHS quality

○: 240 lines resolution, VHS quality

Exquisite Still & Slow-Motion Reproduction
"Vertical Resolution Maintained"

With the built-in digital frame memory, priority is given to images in still frames and blurring is controlled in still fields. Proper switching ensures the reproduction of high-quality still and slow-motion images free of blurring.

Quick Fast-Forward & Rewind
"Entire Tape within Approx. 120 sec"

Find the images to be reviewed in no time at all with ultra-quick fast-forward and rewind. Furthermore, the fan has been eliminated owing to the introduction of energy-saving circuitry and a drive silencer has been added, thus allowing a quiet environment for medical services to be maintained.

Analog Unit Loaded with Digital Technologies

- Digital 3D Noise Reduction: Noise is cut when tape is played, providing clean data signals even if the tape is old.
- Digital 3D Y/C Separation: Highly precise separation of Y (luminance) and C (colour) signals is provided at the time of recording to ensure clear, vivid images when tape is played.
- Digital TBC: Ensures stable, clear picture by removing flicker and distortion in replayed image.

Operation Ease and Convenience a Step Above the Rest – Impressive Lineup of Advanced Functions

Self-Diagnostics System

"Automatically detects abnormal operation"

Checks for abnormal internal operations automatically. If a malfunction in operation occurs within the unit, information about the abnormality is displayed on the LCD panel or monitor screen.

Hi-Fi Audio Recording and Editing (Narration)

"Insert narration with images"

The VCR is equipped with two-channel Hi-Fi recording and has one additional monotone channel for the addition of narration for images after initial recording has been completed (use microphone plugged into mic terminal on the front of the unit).

Flying Erase Head

"Smooth, clean frames transition"

After recording has been stopped, the flying erase head traces back over the image track and erases rainbow noise and distorted images before beginning to record again, thus ensuring smooth, clean connection of image recordings.

Dual Jog Dial Shuttle

"Quickly search for recorded images"

Use the inner jog dial to control forward and reverse frame movement and the outer dial to control search speed. Combine the two and quick search of specific images is easier than ever. Setting the menu is easy too.

Linear Tape Counter/End-of-Tape Display

"Easily check remaining tape time"

Tape usage is monitored and displayed an easy to read hr:min:sec format. A bar-type display indicator also shows the amount of tape remaining, which helps to prevent recording mistakes due to shortage of tape.

Multiple Search Patterns

"Quick leader tape search"

"Blank Search" searches for sections of tape that have not been recorded automatically. "Time/Date Search" searches recorded data by time and date imprints. "Index Search" quickly searches for the leader tape at the start of each recording session. Choose the search method most convenient for the purpose at hand.

Illuminated Keys

"Lighted keys for easy operations in the dark"

Large numerical display, easy-to-read panel and illuminated keys provide easy recognition in the dark.

Other Functions

- Digital Tracking
- Long Pause
- Automatic Head Cleaning
- Automatic Replay
- Used Time Display
- 2-Way Mode Lock

rior picture quality, operation ease and external remote control.

tion ensures images recorded will have superior picture quality. Optional interface board allows connection with other

ing and Play Functions

Fast Drive

ultra-quiet operation

Fast Recording Start Time
"Approx. 0.7 sec"
(drum motor on)

A quick-action high-speed mechanism has been installed to ensure recording start immediately. Even if the drum is turned off, recording will start in 2.3 sec.

Impressive Operation Ease even in Special-Use Environments

Energy-Efficient & Lightweight, Compact

Amazingly Low Electricity Use
"Approx. 0.4–0.2A"

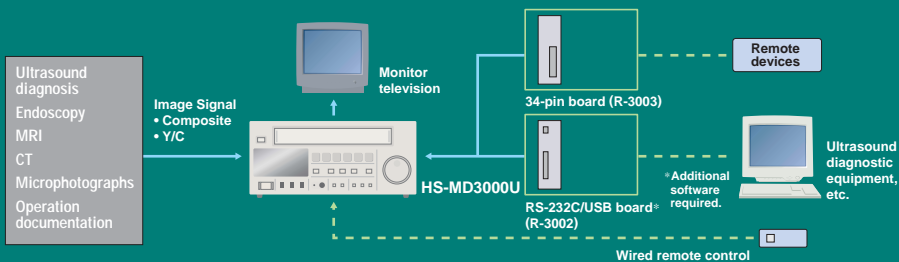
Industry leading energy efficiency has been achieved using original circuit technology, allowing the limited electricity capacity available in medical environments to be utilized efficiently.

Lightweight & Compact
"Approx. 14.3 lbs (6.5kg)"

Our HS-MD Series models are some of the smallest and lightest professional-use VCRs in the industry. The simple, sleek system design has no slots or holes, thus preventing the radiation of internal heat.



Example of External Control System **USB compliant—industry first**



● Simple Interface System— Compliant with all interfaces

Compatible with RS-232C/USB and 34-pin parallel interfaces allows remote control when connected to ultrasound diagnostic equipment or other devices.

INDUSTRIAL-USE VIDEO CASSETTE RECORDER HS-MD3000U

S VHS

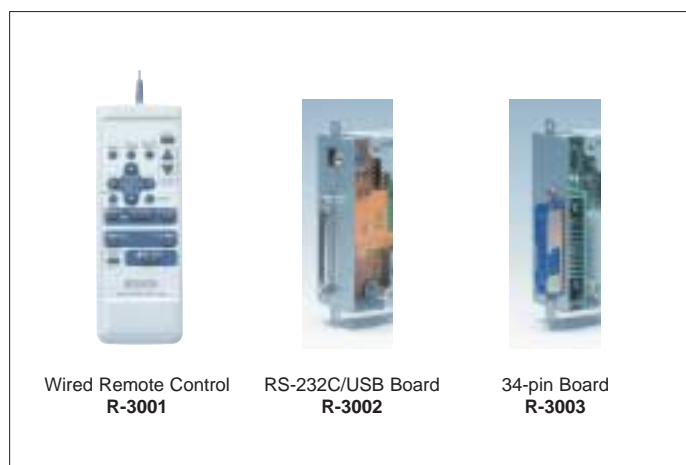


Mitsubishi Industrial-Use S-VHS Video Cassette Recorder

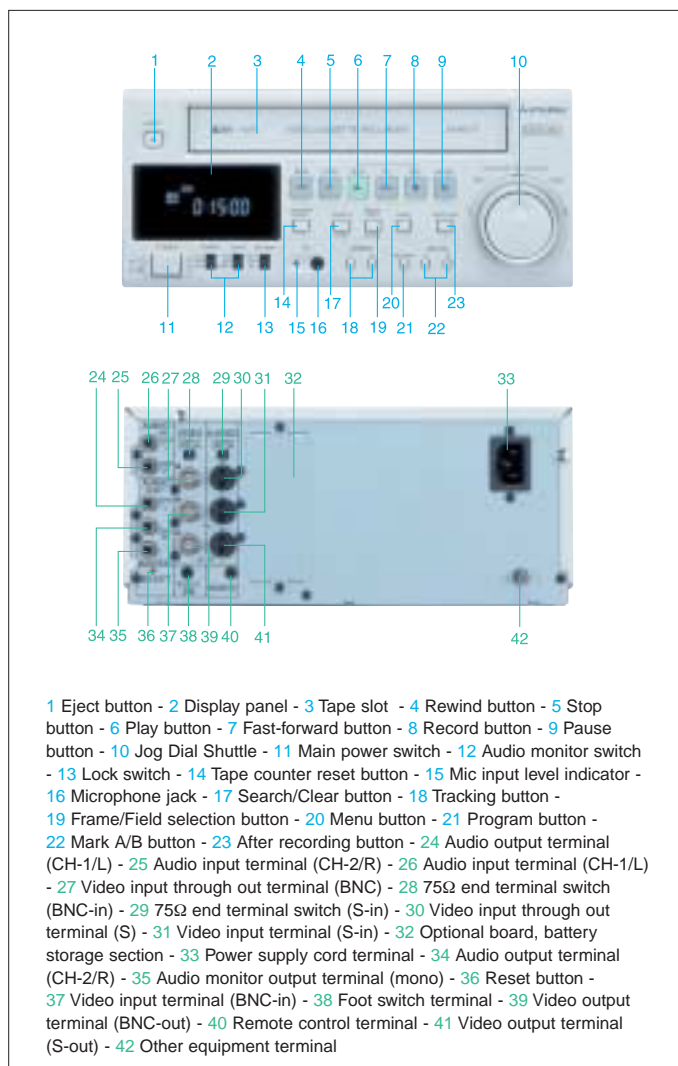
Specifications

Power Supply	Input voltage: 100–230VAC ±10%, 50/60Hz
	Power consumption: Approx. 0.4–0.2A
Signal System	EIA standard 525 lines 60 fields NTSC-type colour signal
Recording System	Luminance signal: FM system
	Colour signal: Low-pass conversion
Videotape	S-VHS, VHS cassette
Tape Speed	33.35mm/sec
Recording Time	120min (using 120min tape)
Fast-forward/Rewind Time	approx. 120 sec (using 120 min tape)
Audio Channels	2-channel Hi-Fi, 1-channel monotone
Image Input	S-video (Y-signal): 1.0V (p-p), 75Ω
	(C-signal): 0.286V (p-p), 75Ω
Image Output	S-video (Y-signal): 1.0V (p-p), 75Ω
	(C-signal): 0.286V (p-p), 75Ω
Horizontal Resolution	S-VHS/S-VHS ET mode: Over 400 TV lines
	VHS mode: Over 240 TV lines
Image S/N	Over 45dB
Audio Input	Line-in (CH-1, CH-2): 346mV (rms), 47kΩ (RCA pin×2)
	Mic input, 0.775mV (rms), 600Ω (Mini-jack×1)
Audio Output	Line-out (CH-1, CH-2): 346mV (rms), 1kΩ (RCA pin×2)
	Monitor output (mono): 346mV (rms), 1kΩ (RCA pin×1)
Dynamic Range	Over 90dB (Hi-Fi audio)
Dimensions (W×D×H)	10.6×14.4×4.9 inch (270×366×125mm)
Weight	14.3lbs (6.5kg)

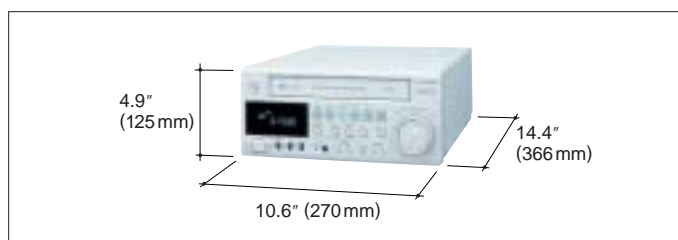
Optional Parts



Parts Location and Name



Overall Dimensions



⚠ Safety Warning

To ensure proper use of the products listed in this catalog, please be sure to read the instruction manual prior to use.

MITSUBISHI ELECTRIC EUROPE
TRAVELLERS LANE, HATFIELD, HERTFORDSHIRE AL10 8XB
Telephone: (01707) 278684 Fax: (01707) 278541 E-mail: projector.info@meuk.mee.com

For more information about our video cassette recorders, please see the website at:
www.mitsubishielectric.co.uk/vis