

# Panasonic

# AG-MD835

S-VHS Hi-Fi Video Cassette Recorder  
(NTSC)



## Higher Level of Image Quality for Demanding Medical Applications

Panasonic's AG-MD835 is designed to meet increasing need for high quality video & audio recording/playback in the field of medicine. Advanced features like built-in TBC, DNR and 3-D Y/C Separation circuitry help achieve the exceptional picture quality required for precise image analysis. And the sturdy mechanism ensures stable and reliable operation even under tough conditions.

*This product is classified by Underwriters Laboratories Inc. as to medical electrical equipment with respect to electric shock, fire and mechanical hazards only in accordance with **UL 2601-1**. Control number 76KA.*



# AG-MD835

S-VHS Hi-Fi Video Cassette Recorder (NTSC)

## Built-in Digital TBC

The digital TBC (time base corrector) within the AG-MD835 eliminates even small amounts of jitter, skew, head impact error, and color blurring. Its precise time base correction helps maintain high picture quality that satisfies the strict requirements of medical applications.

## 3-Dimensional Digital Noise Reduction (DNR)

The AG-MD835's built-in DNR processes Y and C signals separately to boost S/N ratio, thereby minimizing noise during playback.

## 3-Dimensional Digital Y/C Separation

This advanced system checks the relationship between successive fields and separates Y and C signals with exceptional precision, reducing noise caused by the mutual interference of the Y and C signals.

## S-VHS & Amorphous Video Heads

High-output, low-noise Amorphous Heads maximize the potential of the 400-line horizontal resolution of the S-VHS format. The result is exceptionally clear, detailed images.

- Rotary Erase Head

## 4-Channel Audio

A total of four audio channels are available: two linear channels, and two Hi-Fi channels boasting a dynamic range of 90dB for high sound quality. This 4-channel system also enables Audio Dubbing on the linear channels.

## Audio Meter/Variable Audio Input

The AG-MD835 features independent left and right input capability and recording level control (Hi-Fi only). Audio level is indicated on the display for at-a-glance confirmation.

- Microphone Input
- Headphone Output with Level Control
- Linear Audio Limiter

## IQ Mechanism

The 5 direct drive motor system maintains stable tape transport, the key to high picture quality, while the Twin Projection Cylinder ensures optimum tape-to-head contact. A reduced number of parts and simplified circuit wiring contribute to high reliability.

## Compact Design and Low Power Consumption

The compact design (10<sup>5</sup>/<sub>8</sub>" in width) allows installation flexibility and easy incorporation into existing systems. Low power consumption contributes to economical operation.

## Jog & Shuttle Dial

Forward and reverse speeds from 1/25 to 11X normal can be selected by simply turning the Shuttle Dial. The Jog function allows search at one frame at a time.

## RS-232C Compatible

Attach the AG-IA823 optional RS-232C interface board to the rear panel and the AG-MD835 can be controlled by computer.

## Optional Remote Control (34-pin)

Remote control of the AG-MD835 is possible by adding the optional AG-IA34 interface board and the AG-A600E wired remote control.

## Other Features

- Error Code Indication
- Mode Lock Function
- VISS Repeat Playback/Repeat Playback
- Blank Search
- Linear Tape Counter
- Tape Remain Indicator
- Auto Head Cleaning
- Pause Remote Control Terminal
- OSD Menu Setup

## Optional Accessories

- AG-IA823: RS-232C Interface Board
- AG-IA34: 34-Pin Interface Board
- AG-A600E: Wired Remote Control
- VW-RM1: Pause Remote Control

## Specifications

### ■ GENERAL

Power Source:	120 V AC ±10%, 50/60 Hz
Power Consumption:	Approx. 35 W
Operating Temperature:	+41°F to +104°F (+5°C to +40°C)
Operating Humidity:	35% – 80%
Weight:	15 lbs. (6.8 kg)
Dimensions (W x H x D):	10 <sup>5</sup> / <sub>8</sub> " x 5 <sup>3</sup> / <sub>16</sub> " x 14 <sup>3</sup> / <sub>8</sub> " (270 x 131.5 x 365.5 mm)

### ■ SYSTEM

Television System:	EIA Standard, NTSC Color Signal; 525 lines, 60 fields
Video Recording System:	Two rotary heads, helical scanning system
Modulation System:	Luminance: FM azimuth recording Chrominance: Converted subcarrier phase shift recording
Audio Track:	2 tracks (Hi-Fi audio), 2 tracks (Normal)

### ■ TAPE TRANSPORT

Tape Format:	S-VHS/VHS tape
Tape Speed:	1 <sup>5</sup> / <sub>16</sub> ips (33.35 mm/s)
Recording Time:	120 min. (with NV-T120)
FF/REW Time:	Approx. 2.5 min. (with NV-T120)

### ■ VIDEO

S-Video In (4P):	Y: 1.0 Vp-p, 75 Ω, unbalanced C: 0.286 Vp-p, 75 Ω, unbalanced (Burst)
Line In (BNC):	1.0 Vp-p, 75 Ω, unbalanced
S-Video Out (4P):	Y: 1.0 Vp-p, 75 Ω, unbalanced C: 0.286 Vp-p, 75 Ω, unbalanced (Burst)
Line Out (BNC):	1.0 Vp-p, 75 Ω, unbalanced
Horizontal Resolution:	S-VHS: more than 400 lines (color/monochrome) VHS: 230 lines (color)
Signal-to-Noise Ratio:	VHS: More than 48 dB (color)

### ■ AUDIO

Line In (Phono):	-8 dBV, 47 kΩ, unbalanced
Mic In (3.5 mm Phono):	-60 dBV, 47 kΩ, unbalanced
Line Out (Phono):	-8 dBV, 600 Ω, unbalanced
Audio Monitor (Phono):	-8 dBV, 600 Ω, unbalanced
Headphone (3.5 mm Phono):	-60 dBV, -20 dBV, 8 Ω, unbalanced
Audio Frequency Response:	20 Hz – 20 kHz (Hi-Fi audio) 50 Hz – 10 kHz (Normal)
Dynamic Range:	90 dB (Hi-Fi audio)

Weight and dimensions shown are approximate. Specifications subject to change without notice.

This product may be subject to export control regulations.

**Warning:** Unauthorized recording of copyrighted television programs, films, videotapes and other materials may infringe upon the rights of copyright owners and be contrary to copyright laws.



# Panasonic

Panasonic Security & Digital Imaging Company  
Industrial/Medical Group

DIVISION OF MATSUSHITA ELECTRIC CORPORATION OF AMERICA

Executive Office: 50 Meadowlands Pkwy., 4D-4  
Secaucus, NJ 07094  
(201) 392-6674  
www.panasonic.com/medical  
For Information: 888-880-VISION

Panasonic Canada Inc.  
5770 Ambler Drive, Mississauga, Ontario L4W 2T3 (905) 238-2115

Panasonic Sales Company  
Division of Matsushita Electric of Puerto Rico, Inc.  
San Gabriel Industrial Park, 65th Infantry Ave., K.m. 9.5,  
Carolina, Puerto Rico 00630 (809) 750-4300



Certificate No. EC95J1010

