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TECHNOLOGY FOR LIFE **MITSUBISHI ELECTRIC**

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ISO 9001
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# 24 HOURS TIME-LAPSE VIDEO CASSETTE RECORDER

MODEL

# HS-1024E

## *Simpler, easier, and more reliable*

***Announcing the arrival of a multi-functional, highly reliable time-lapse video system for security applications, designed in accordance with specific customer requests***

- **All-new mechanism (including new video heads for improved picture quality) enclosed in an extra-strength load-bearing chassis**
- **Easily recognisable warning of recording problems reported with both an audible signal and a flashing indicator**
- **Powerful search function supports searching by date and/or time**

# HS-1024E

## A new mechanism for more reliable, higher-quality video recording

### ■ Improved picture quality
The all-new mechanism features newly developed video heads for improved picture quality. Plastic parts have been replaced with metal parts providing further reliability.

### ■ New load-bearing chassis design
A newly designed centre beam strengthens the chassis structure.

Color model shown here

### ■ Software servo
The new software servo enables high-precision control of tape drive and Drum drive.

### ■ Super-fast FF/REW and super quick response mechanism
One of the quickest machines in this industry, fast-forwards and rewinds tapes in just 120 seconds. (with E-180 Tape)
Quickly switches from STOP to REC mode within 0.3 seconds (when the drum is operating)

## Improved record check function provides greater peace of mind

### ■ One button recording check
The record check function allows you to check whether recording is proceeding normally with the press of a button.

### ■ Video-head clog detection and cleaning
The video-head cleaning function automatically detects and cleans clog in the video heads while recording with L12H or L24H mode.

### ■ New warning system
The new easily recognisable warning system indicates recording problems by means of an audible signal and flashing indicator.

### ■ Self-diagnosis
Internal problems during recording are automatically detected and displayed.

### ■ Automatic startup following power failure
Previous settings are automatically restored when power is restored.

## Now easier to operate in response to customer demand from the security industry

### ■ Multiple-language menus
Menus are available in seven languages: English, French, Spanish, German, Italian, Dutch, and Russian.

### ■ Clock setting
Change the clock settings on the video recorder with the power off, no need to use the screen. (Conventional method also available)

### ■ Daylight savings auto-switcher (In Europe only)
Automatically switches from normal time to daylight savings time, and back again, twice per year (function easily disabled if not required).

### ■ Timer-record holiday setting
Up to 20 separate dates can be programmed into the timer as holidays.

### ■ New menu structure
The new menu structure provides additional function settings in all areas, including on-screen display, time, timer record, recording, and maintenance, as well as an easy-to-use front search key.

### ■ Jog shuttle
Use of the jog shuttle makes frame-by-frame playback and high-speed video searching for specific scenes much faster and easier.

### ■ Up to 24-hour recording
Intermittent recording modes providing up to 24 hours of video recording.

## More useful functions to suit all applications

- ***Choice of search functions***
- ***Alarm record list***
- ***Remaining tape display***
- ***Two-way locking***
- ***Series recording***
- ***Auto-repeat recording***
- ***Hard-wired remote terminal***
- ***RS-232C interface (option)***

### ■input & output terminal

### ■SPECIFICATIONS

| | |
|---|---|
| Tape Format | VHS 1/2" width high-density video cassette tape. |
| Power Source | AC100-230V±10%, 50/60Hz. |
| Power Consumption | Approx. 18 watts. |
| Television System | CCIR standard 625 lines, 50 field PAL-type colour system. |
| Fast Forward / Rewind Time | Approx. 120sec. with E-180 cassette. |
| Heads-Video | 4 rotary heads. |
| Audio / Control | 1 stationary head. |

Tape Speed and Recording Time (with E-180 cassette):

| Mode | Time | Speed | Recording interval | Video signal | Audio signal | Tape drive |
|---|---|---|---|---|---|---|
| 3H (SP) | 3 hrs | 23.39 mm/sec | 20.0 msec./Field | Continuous | Recordable | Continuous |
| L12H (SP) | 15 hrs | 4.68 mm/sec | 100.0 msec./Field | Time Lapse | Recordable | Continuous (Slow) |
| L24H (SP) | 27 hrs | 2.60 mm/sec | 180.0 msec./Field | Time Lapse | Recordable | Continuous (Slow) |

| | |
|---|---|
| Erase | 1 full-track head. |
| Horizontal Resolution | More than 330 lines (Black & White) More than 240 lines (Colour) |
| Audio Frequency Response | 70Hz-7kHz (3H mode). |
| Operating Temperature | 41°F-104°F (5°C to 40°C). |
| Relative Humidity | Max.80% |
| Dimensions (JOG dial included) | 16.7(W)x12.3(D)x3.7(H)(in.). 425(W)x314(D)x95(H)(mm). |
| Weight | 9lbs (4.2kg) |
| Battery Backup | Lasts 31 days. |

### CONNECTORS

| | |
|---|---|
| ALM Input | Screw terminal for starting alarm recording. |
| RST Input | Screw terminal for finishing alarm recording or for adjusting on-screen clock. |
| REC Input | Screw terminal for starting / finishing recording, or for series recording. |
| GND | Screw terminal for ground. |
| ALM Output | Screw terminal for output while alarm recording is under way. |
| CLK Output | Screw terminal to command camera switching. |
| MODE Output | Screw terminal for indication of VCR selected mode. |
| CALL Output | Screw terminal for external warning device or for series recording. |

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NOTICE
Dimensions shown are approximate.
Design and specifications subject to change without notice.
Please contact our sales staff for further information.