

## 24 HOURS TIME-LAPSE VIDEO CASSETTE RECORDER



ISO 9001  
JQA-0521

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.

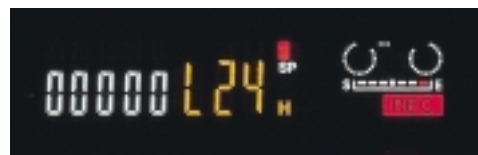
#### ■ Self-diagnosis

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							
4°F-104°F (5°C to 40°C).							
Relative Humidity							
Max.80%							
Dimensions							
16.7(W)x12.3(D)x3.7(H)(in.).							
(JOG dial included)							
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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