

# Panasonic

# AG-RT650

Real Motion VHS Time-Lapse  
Video Cassette Recorder  
(NTSC)



## **Multi-Function Real Motion Time-Lapse VCR**

Real Motion Time-Lapse recording in the AG-RT650 assures remarkably smooth playback images. Details are crisp and clear in High Band recordings, with 300 lines of horizontal resolution in color, and more than 300 lines in black & white. The Jog/Shuttle dial makes scene searches quick and accurate, and on-screen menus easily guide you through setting procedures. Also, the advanced Z Mechanism adds extra reliability to this versatile time-lapse VCR.

**RTL**  
REAL MOTION TIME LAPSE

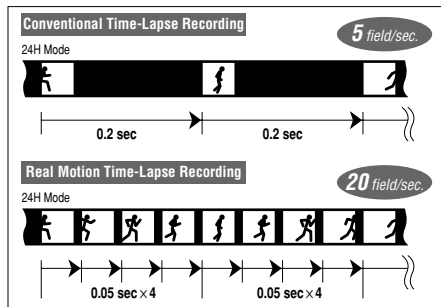


# AG-RT650 Real Motion Time-Lapse Video Cassette Recorder



## Real Motion Time-Lapse Recording

The AG-RT650 features 8, 24, and 40-hour recording modes (with T160 tape), with Real Motion Time-Lapse recording in the 24 and 40 hour modes. In the 24-hour mode 20 fields are recorded every second. In the 40-hour mode 12 fields are recorded per second, providing for more detailed recordings than conventional 24-hour recordings with only 5 fields per second. This high-density recording assures playback images nearly as smooth as standard play VHS, a valuable feature for applications where precise image inspection is required.



## Advanced Z Mechanism

A reinforced capstan motor gives this mechanism the durability it needs for heavy use. Reliability is further boosted by DLC processing, a new low-speed transport design for the time-lapse mode, and an innovative bearing design for the pinch rollers.

## Features for Safe Recording

- Repeat Record Pass Indicator  
The use of worn tapes can cause problems. Each complete tape pass is counted and an indicator alerts when to replace the used tape.
- Blue Screen Indication in Non Recording Situation
- Tape Remain Warning Alarm
- Error Message
- Tape End Alarm
- Power Failure Recovery Recording
- Dual Rec Lock Function (Rec Lock, Menu)

## A Variety of Recording Modes with Audio

Rec Mode	Rec Time (Max.)	Interval	Audio
VHS	8H 8 hrs.	1/60 sec.	
Real Motion Time-Lapse	24H 24 hrs. 40H 40 hrs.	1 field/0.05 sec. 1 field/0.083 sec.	Yes

## Amazing Simple Operation

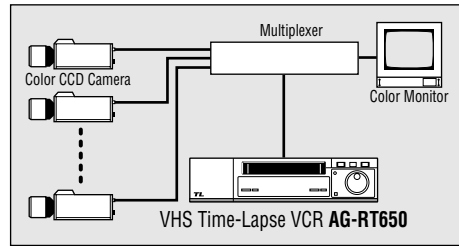
For ease of use and to prevent inadvertent misoperation, only the main control buttons — REC, REC REVIEW and EJECT — are located on the front panel.

## Valuable Recording Features

- Emergency Recording
- Daily Timer Recording
- Alarm Recording
- External Timer Recording
- Weekly Timer Recording
- Repeat Recording

## Multiplexer Connection

By using Panasonic (or other compatible) multiplexer, automatic switching is possible, with the timing controlled by the AG-RT650.

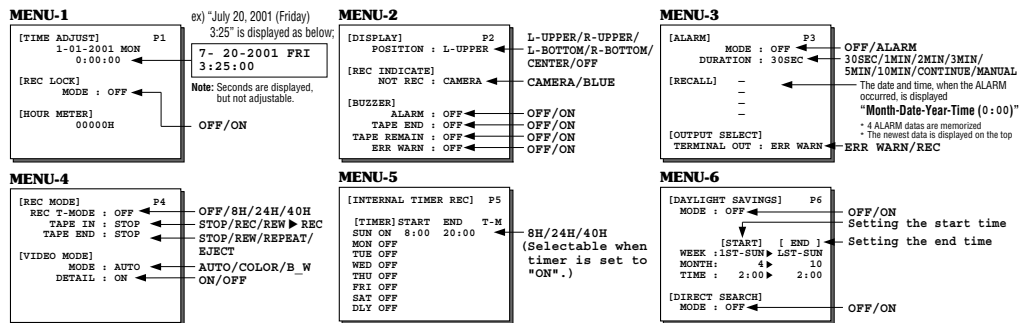


## Wide Range of Convenient Features

- Quick, Accurate Jog/Shuttle Searches  
A jog or shuttle function has been added for quickly locating playback sections by using the incorporated search dial.
- Shorter FF/REW Times  
For greater convenience, the FF/REW time has been decreased — from 3 min. to 2.5 min. for a T160 tape.
- Alarm Search, Alarm Recall
- Versatile Playback Function
- Record Review Function
- Quasi-V insertion On/Off
- 1-week Timer Backup
- Rec input, Camera switching output, Auto-off output/Rec output
- Real-time 8H/24H/40H Recording/Playback (with audio)
- Hi-Band recording with 300 lines of horizontal resolution in color, and more than 300 lines in black & white.

## Easy Mode Setting with On-Screen Display

For easier mode selection, the on-screen menu includes time setting, automatic daylight saving time setting, internal timer recording with new 8H, 24H and 40H modes, alarm/emergency recording time mode, and other functions. The time and date for the display and selectable function controls are generated by a built-in time/date generator, and menu settings allow adjustment of display positions in three steps.



## Specifications

- GENERAL  
Power Source: 120V AC ±10%, 50/60Hz  
Power Consumption: 20W  
Operating Temperature: 41°F ~ 104°F (5°C ~ 40°C)  
Operating Humidity: 35% ~ 80%  
Weight: 8.4 lbs. (3.8 kg)  
Dimensions (W x H x D): 16<sup>15</sup>/<sub>16</sub>" x 3<sup>7</sup>/<sub>16</sub>" x 11<sup>9</sup>/<sub>16</sub>" (430 x 88 x 293.5 mm)
- SYSTEM  
Television System: EIA Standard, NTSC Color Signal; 525 lines, 60 fields  
Video Recording System: Four rotary heads, helical scanning system (VHS mode)  
Modulation System: Luminance; FM azimuth recording Chrominance; Converted subcarrier phase shift recording
- Audio Track: 1 track
- TAPE TRANSPORT  
Tape Format: VHS tape  
Tape Speed: 8H mode: 7<sup>1</sup>/<sub>16</sub> ips (11.12 mm/sec.)  
Recording Time Modes: 8/24/40 hours with T160  
FF/REW Time: Less than 2.5 min. with T160
- VIDEO  
Line In (BNC): 1.0Vp-p, 75Ω unbalanced  
Line Out (BNC): 1.0Vp-p, 75Ω unbalanced  
Horizontal Resolution: More than 300 lines (color), More than 300 lines (monochrome)  
Signal-to-Noise Ratio: 8H mode: 43dB (color), 45dB (monochrome)

- AUDIO  
Line In (RCA): -10dBV, 47kΩ unbalanced  
Mic In (M3): -60dBV, 600Ω unbalanced  
Line Out (RCA): -8dBV, 1kΩ unbalanced

- CONNECTORS  
Terminal Input: Alarm, Alarm Reset, REC  
Terminal Output: Tape End, Warning/REC  
Camera Switching Output: 12V/0V, Pulse width: 16.7 msec.  
Remote Control: AG-A11 (Option)

- OPTIONAL ACCESSORY  
AG-A11: Wired Remote Control

Warning:  
Only playback AG-RT650 recorded tapes on an AG-RT650.  
Unauthorized recording of copyrighted television programs, films, video tapes and other materials may infringe upon the rights of copyright owners and be contrary to copyright laws.  
Weight and dimensions shown are approximate. Specifications subject to change without notice.  
This product may be subject to export control regulations.

# Panasonic

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