

Panasonic



AG-TL950

S-VHS/S-VHS ET Time-Lapse
Video Cassette Recorder
(NTSC)



960 Hours S-VHS Time-Lapse Video Recording — High-Quality, Safety and Cost Performance —

The Panasonic AG-TL950 brings a new level of cost performance to high-quality time-lapse video recording. With a wide range of advanced features and recording modes, its versatility meets a broad range of applications. Adding to S-VHS ET, the AG-TL950 makes it possible to take advantage of S-VHS's proven high-quality recording capability. With a resolution of more than 400 lines, the AG-TL950 can record up to 960 hours on either S-VHS or VHS tapes.

High-Density Recording



S-VHS S-VHSET

AG-TL950 S-VHS/S-VHS ET Time-Lapse Video Cassette Recorder



S-VHS High Picture Quality

The S-VHS format ensures a much higher level of color fidelity and picture quality than conventional VHS. Thanks to the S-VHS format, horizontal resolution is higher than 400 lines in recording and playback, even in the 24-to-960-hour time-lapse modes and the still playback mode. When using the composite video terminal, Y/C separation circuitry assures 400 lines of resolution.

S-VHS ET Recording

AG-TL950 is also equipped with S-VHS ET (Expansion Technology). It allows you to record high-resolution S-VHS signals on HG VHS tapes for horizontal resolution of more than 400 lines (even in the color mode). Images are clear and sharp enough for accurate surveillance. With clearer, sharper images, improved still and slow motion picture quality as well as improved dubbing performance, this affordable high-resolution recording system gives you the tools you need to analyze recorded images in much greater detail.

Wide Variety of Recording Mode

A wide variety of recording modes give the AG-TL950 the versatility to meet the broadest range of applications. Recording times are selectable from 2H (SP)/6H(EP), L12H/L24H (Linear Slow mode with Audio), L18 (Real Motion mode with Audio) and 24H/48H/72H/84H/120H/168H/240H/480H/960H (Time-Lapse mode with SP head, or High Density mode with EP head) when a T120 tape is used.

Large Choice of Recording Modes

Rec Mode	Recording Time (T120)	Recording/Playback Interval (sec.)				Audio Recording	S-VHS	S-VHS ET on VHS HG Tape
		SP/EP	TL	HD	Linear			
Standard (SP)	2H	2hrs.	0.016	-	-	Yes	Yes	Yes
3x (EP)	6H	6hrs.	0.016	-	-	Yes	Yes	Yes
Linear Slow (SP head)	L12H	12hrs.	-	-	-	Yes	Yes (HDRoff)	No
	L24H	24hrs.	-	-	-	0.21	Yes (HDRoff)	No
Real Motion (EP head)	L18H	18hrs.	-	-	-	0.05	Yes (HDRon)	No
	24H	24hrs.	-	0.21	0.08	-	No	Yes
Time-Lapse (SP head/High Density (EP head))	48H	48hrs.	-	0.41	0.15	-	No	Yes
	72H	72hrs.	-	0.61	0.21	-	No	Yes
	84H	84hrs.	-	0.71	0.25	-	No	Yes
	120H	120hrs.	-	1.01	0.35	-	No	Yes
	168H	168hrs.	-	1.41	0.48	-	No	Yes
	240H	240hrs.	-	2.01	0.68	-	No	Yes
	480H	480hrs.	-	4.01	1.35	-	No	Yes
	960H	960hrs.	-	8.01	2.68	-	No	Yes

* Avoid using T160 tapes with any of Time-Lapse modes.
SP: Standard, EP: 3x, TL: Time-Lapse, HD: High Density, HDR: High Density Recording

Other Features

- **Alarm Recording**
When an alarm signal is put in during recording, the SP/EP mode is automatically engaged.
- **Sensor Recording**
With the power switch off, or when unit is set to the Stop position, recording automatically starts as soon as external alarm signal is received.
- **Timer Recording (EXT Timer/INT Timer)**
- **Recording Check Function for Instant Check of Playback Quality during Recording**
- **Operation Lock System**
- **Built-in Time Date Generator**
- **Repeat Recording/Playback**
- **Tape End, Alarm and Warning Electronic Buzzer**
- **Summer Time Setting**
- **Time/Date Search Function**
Work efficiency is enhanced by a time/date search function. By entering the date and time you can easily locate the corresponding point on the tape for playback.
- **Camera Switching Output Function**
- **Tape Position Search Functions**
- **Aluminum Diecast Mechanism for Long-Lasting Reliability**

Detailed Images by Field Recording

The field recording system of the AG-TL950 provides twice the recorded information that can be attained with the conventional frame recording, thus providing exceptionally detailed pictures.

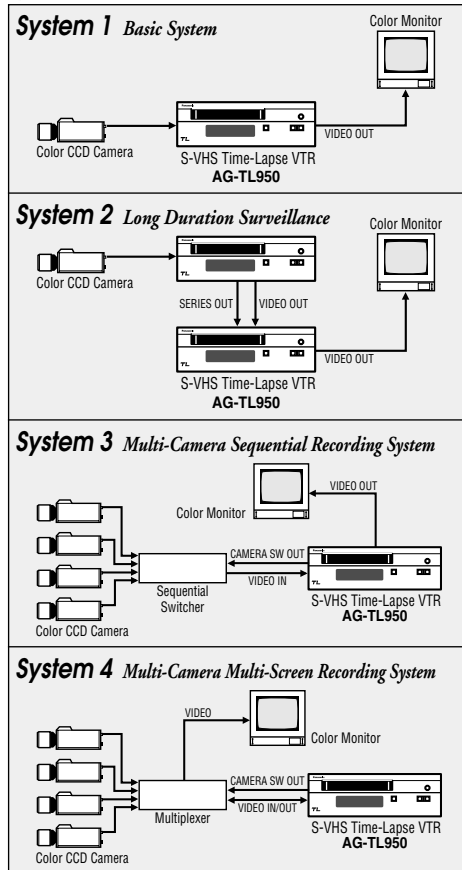
Series Recording

Built-in SERIES REC IN/OUT connectors allow you to configure a variety of sophisticated time-lapse surveillance systems using the AG-TL950. Connect several VTRs in series and automatically switch recording from one unit to the next without interrupting the recording. This enables you to extend your recording capabilities indefinitely or take advantage of shorter recording modes for longer periods.

Easy Mode Setting with On-Screen Display

The time and date for the display as well as for control of selectable functions is generated by a built-in Time/Date generator. For enhanced ease of mode selection, an on-screen menu includes time setting, internal timer recording alarm/sensor recording time mode and other functions.

System Connections



Rear Panel Notes

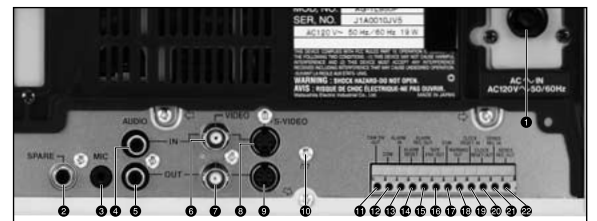
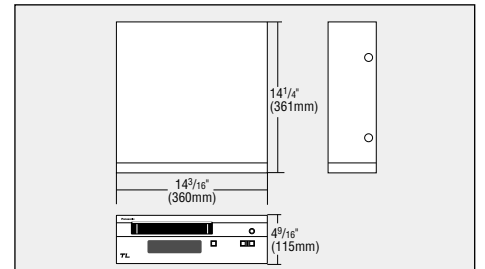
- AC IN
- SPARE
- MIC IN
- AUDIO IN (RCA)
- AUDIO OUT (RCA)
- VIDEO IN (BNC)
- VIDEO OUT (BNC)
- S-VIDEO IN (Y/C)
- S-VIDEO OUT (Y/C)
- Signal ground
- CAM SW OUT
- COM
- ALARM IN
- ALARM RESET
- ALARM REC OUT
- TAPE END OUT
- COM
- WARNING OUT
- CLOCK RESET IN
- CLOCK RESET OUT
- SERIES REC IN
- SERIES REC OUT

Specifications

- **GENERAL**
 - Power Source: 120V AC, 50/60Hz
 - Power Consumption: 19W
 - Operating Temperature: 5°C ~ 40°C
 - Operating Humidity: 30% ~ 80%
 - Weight: Approx. 12.1 lbs. (5.5 kg)
 - Dimensions (W x H x D): 14⁹/₁₆" x 4⁹/₁₆" x 14¹/₄" (360 x 115 x 361 mm)
- **SYSTEM**
 - Television System: EIA Standard, NTSC Color Signal; 525 lines, 60 fields
 - Video Recording System: Two rotary heads, helical scanning system (S-VHS/S-VHS ET)
 - Video Head System: Four rotary heads
 - Modulation System: Luminance; FM azimuth recording
Chrominance; Converted subcarrier phase shift recording
 - Audio Track: 1 track
- **TAPE TRANSPORT**
 - Tape Format: S-VHS/VHS (HG only) for S-VHS ET
 - Tape Speed: 33.35 mm/sec. (2H mode), 11.12 mm/sec. (6H mode)
 - Recording Time Modes: 2/6/12/18/L24/24/48/72/84/120/168/240/480/960 hours with T120
 - FF/REW Time: Less than 4 min. with T120
- **VIDEO**
 - S-Video In (4-pin): Y: 1.0Vp-p, 75Ω unbalanced
C: 0.286Vp-p, 75Ω unbalanced (Burst)
 - S-Video Out (4-pin): Y: 1.0Vp-p, 75Ω unbalanced
C: 0.286Vp-p, 75Ω unbalanced (Burst)
 - Line In (BNC): 1.0Vp-p, 75Ω unbalanced
 - Line Out (BNC): 1.0Vp-p, 75Ω unbalanced
 - Horizontal Resolution: 400 lines or more (S-VHS/S-VHS ET: 2H mode)
 - Signal-to-Noise Ratio: 43dB or more (S-VHS: 2H mode)
- **AUDIO**
 - Line In (RCA): -8dBs, 50kΩ unbalanced
 - Mic In (M3): -67dBs, unbalanced
 - Line Out (RCA): -8dBs, 1kΩ unbalanced
- **CONNECTORS**
 - Terminal Input: ALARM, ALARM RESET, CLOCK RESET, SERIES REC
 - Terminal Output: CAM SW, ALARM REC, TAPE END, WARNING, CLOCK RESET, SERIES REC
 - Camera Switching Output: 12V/0V, Pulse width: 20 msec.

Warning:
Unauthorized recording of copyrighted television programmes, 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.

Dimensions



Panasonic

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