

# SONY

## TIME LAPSE VIDEOCASSETTE RECORDER

# SVT-LC300

### TIME LAPSE VIDEOCASSETTE RECORDER

- 96 Hr. (T-120) VHS high density time lapse recording
- Horizontal resolution of 350 lines B/W, 300 lines color
- Auto repeat, timer, alarm, series recording capabilities
- Built-in time and date generator
- Audio/video loop-through on power off mode capability
- Alarm scan, time/date & event search capabilities
- Clock set in/out capability
- Adaptive picture control (APC)
- Tape end/tape before-end warning
- Recording check function, clog detection, auto head cleaning
- Power failure protection – 30 day battery backup
- Security lock function
- Field by field playback



# SVT-LC300

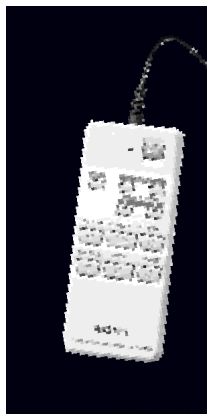
## TIME LAPSE VIDEOCASSETTE RECORDER



Front Panel



Rear Panel



SVT-RM10

## SPECIFICATIONS

### SVT-LC300

#### General

Mass: 3.8 kg (8 lb 6 oz)

Dimensions: 240 (W) x 96.5 (H) x 333 (D) mm (9 1/2 x 3 7/8 x 13 1/8 inches)

Power requirements: AC 120 V, 60 Hz

Power consumption: 18 W

Operating temperature: 5°C to 40°C (41°F to 104°F)

Operating humidity: Less than 80%

#### System

Video signal: EIA standard (monochrome)/NTSC (color)

Recording system: Dual azimuth 4-head helical scanning system

Tape speed: 11.11 mm/second (6 hour mode)

Recording/Playback mode: 6,18,30,48,72,96 hours (with a T-120)  
8,24,40,64,96,126 hours (with a T-160)

Fast forward/Rewind time: Approx. 2.5 minutes (with a T-120 tape)

Internal timer: 1 week, 8 events plus 20 holidays

#### Video

Input: 1.0 Vp-p, 75  $\Omega$ , unbalanced (BNC type)

Output: 1.0 Vp-p, 75  $\Omega$ , unbalanced (BNC type)

Horizontal resolution: Color mode: More than 300TV lines  
Black & white mode: More than 350TV lines

Signal-to-noise ratio: 43 dB

#### Audio

Audio recording system: Monaural

Audio recording modes: 6(8), 18(20) & 30(40)  
hour modes on T-120(T-160)

Input: -7.8 dBu, 47 k  $\Omega$  (Phono jack)

Output: -7.8 dBu, 600  $\Omega$  (Phono jack)

Microphone input: -60 dBu, 600  $\Omega$  (3.5mm mini jack)

Distortion: Less than 4%

Audio signal-to-noise ratio: 40 dB

#### Connectors

Alarm input: Low level/contact closure

Alarm output: +5 V, 5.7 k  $\Omega$  (low active)

Switch output: +5 V, 5.7 k  $\Omega$ , field/frame selectable

Tape end output: +5 V, 5.7 k  $\Omega$  (low active)

Warning output: +5 V, 5.7 k  $\Omega$  (low active)

Timer output: +5 V, 5.7 k  $\Omega$  (high active)

External timer input: Contact closure

Clock set output: +5 V, 5.7 k  $\Omega$  (low active)

Clock set input: (low active)

Series input: (low active)

Series output: +5 V, 5.7 k  $\Omega$  (low active)

Remote control input: 3.5mm, stereo mini-jack (x1)

Standard accessories: AC power cord (x1)  
Operational manual

#### Optional Accessories

T-160VE: 160 minute VHS tape

T-120PM: 120 minute VHS tape

SVT-RM10: Remote Control Unit

SMB-240: Rack Mount Kit (3 racks high)

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# TIME LAPSE VIDEOCASSETTE RECORDER

# SVT-LC300

High density time lapse recording that comes in small packages. Sony's new compact SVT-LC300 Time Lapse VTR provides high density Real Action recording. Only 240 mm (9 1/2 inches) in width, the SVT-LC300 can be installed in especially small spaces and record up to 96 hours on a single 120-minute VHS format videocassette. The SVT-LC300 also includes Sony's advanced APC (Adaptive Picture Control) technology which provides optimum picture quality by automatically adjusting the video head bias to match the video tape used. Equipped with a variety of safety features, the SVT-LC300 is ideal for many CCTV applications.

## A VARIETY OF RECORDING MODES

- **Auto Repeat:** In this mode, the SVT-LC300 automatically rewinds the tape when it reaches the tape end, and re-starts recording. This facilitates virtually continuous non-attended operation using a single tape. This function can be automatically disabled if the unit is tripped into alarm mode, making sure that an alarm event is not recorded over.
- **Series Recording:** Several SVT-LC300 units can be cascaded via connectors on the rear panel to extend the total recording time. As soon as one unit finishes recording, the next unit is turned on and continuously proceeds recording.

## HIGH DENSITY RECORDING

Conventional Time Lapse VTRs record only 5 fields per second in 24-hour recording mode. But Sony's Real Action technology allows recording of 20 fields per second, four times as much information. This recording density provides smooth, natural recording of even fast moving objects.

## COMPARISON OF RECORDING DENSITIES

SVT-LC300 20 fields/sec.



Normal time lapse recording 5 fields/sec.



Maximum recording time of 96 hours (T-120 tape), or 126 hours (T-160 tape)

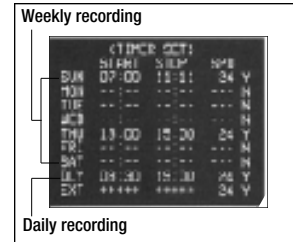
Displayed recording time (hours)	Maximum recording time		Interval (seconds)	Audio Recording	Tape Motion
	T-120**	T-160***			
6 (8)*	EP Mode	6	8	1/60	Possible
18 (24)*	Time Lapse Mode	18	24	1/20	
30 (40)*		30	40	1/12	
48 (64)*		54	72	0.15	
72 (96)*		78	104	0.22	
96 (126)*		102	134	0.28	Not possible

\* Recording time using T-160 tape.

\*\* When using a T-120 tape in 48H,72H and 96H mode, it is possible to record six hours longer than the displayed recording time.

\*\*\* When using a T-160 tape in 64H,96H and 126H mode, it is possible to record eight hours longer than the displayed recording time.

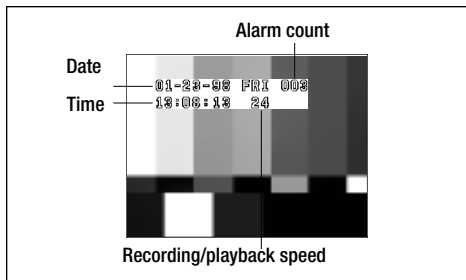
- **Timer Recording:** The SVT-LC300 has a built-in timer which allows exact recording time and the desired recording mode to be preset in advance. Timer recording can be set to either weekly recording or daily recording. In the weekly recording mode, a timer program can be individually preset for each day of the week. Daily recording enables a recording to be made at the same time every day. External timer recording is also possible via the EXT TIMER on the rear panel. Even in standby mode should an alarm occur, the unit will initiate recording as required.



- **Alarm Recording:** When an alarm signal is received from an external alarm device via the ALARM IN connector on the rear panel, the recorder automatically switches to its Alarm Recording mode, even if it is in the stop or power-off mode. The SVT-LC300 allows users to select the alarm recording speed and duration in advance. Various functions such as Alarm Scan, Alarm Recall, and Alarm Search allow the user to quickly locate and review recorded alarm segments.

## USER FRIENDLY OPERATION

- **Built-in Time and Date Generator:** The SVT-LC300 is equipped with a built-in time and date generator, which allows time and date information to be superimposed onto incoming video signals. The number of alarm events and the recording speed can also be superimposed and the superimposed position can be adjusted using the SHIFT buttons. This provides a quick record of the number of alarms received, without going through the alarm log.



- **Loop-through Capability:** Video and audio input can be output through to the monitor automatically even when the SVT-LC300 is turned off. Therefore the picture can always be seen on the monitor, regardless of the VTR status.
- **Time/Date Search:** Specific alarm events can be easily accessed through the time/date search feature (time lapse mode only).
- **On-screen Display:** Function settings such as time/date and timer programming are menu-controlled. They are easy to set and check on the monitor screen.
- **Daylight Setting:** By selecting DAYLIGHT from the menu function, the clock of the unit automatically moves forward one hour.

## RELIABLE SAFETY FEATURES

- **Adaptive Picture Control (APC):**  
To provide maximum quality recording all the time, the APC feature automatically detects the condition of the recording head and the videocassette tape, then sets the optimum record head current. This feature enables the SVT-LC300 to record clear images even after a long period of use.

- **Tape End/Tape Before-end Warning:**  
In order to minimize disruption to the recording during tape changes, the SVT-LC300 provides two different tape end warning signals which can be selected from the menu. One can set it to either three minutes before the tape ends, or exactly when the tape ends depending on user requirements.
- **Recording Check Function:** When pressing the PLAY/REC CHECK button when recording in the time lapse mode, the tape rewinds for about three seconds and then plays back for about two seconds. The unit then returns to its original recording mode. This allows users to quickly check recording integrity.
- **Warning Signal Output:** If recording is inadvertently stopped the SVT-LC300 outputs a pulse signal via the WARNING OUT terminal on the rear panel.
- **Clog Detection:** The SVT-LC300 always checks that the video signals are recorded properly (time lapse mode only). If head clog occurs, the unit will provide a warning.
- **Power Failure Protection:** In the event of a power failure, a built-in lithium battery supplies back-up power to retain the current time and setting modes in memory for up to 30 days. When power is restored, the unit automatically switches back to the mode it was on, before the power failure occurred. Data such as date setting, internal timer setting, recording time, and alarm recording mode settings are also retained.
- **Easy Maintenance:** Thanks to a built-in microprocessor, the actual usage hours of the video head drum and power-on hours can be displayed on the monitor for easy maintenance scheduling.

## OTHER FEATURES

- **Holiday Setting**
- **Camera Switcher Interface**
- **Clock Adjustment**
- **Buzzer Function**
- **Auto Head Cleaning**
- **Security Lock Function**
- **Field by Field Playback**