

CCIR/PAL

SONY  
SURVEILLANCE  
SYSTEMS

# SVT-S3050P

Time Lapse Videocassette Recorder



CE

SONY®

# High Quality S-VHS Video Recording

SVT-S3050P

*Sony introduces the SVT-S3050P S-VHS Time Lapse Videocassette Recorder, the latest addition to the Sony range of surveillance systems. The SVT-S3050P achieves superb colour picture quality by using the S-VHS format as well as low noise, stable performance and excellent image quality with the unique Sony APC (Adaptive Picture Control) function for application versatility. The SVT-S3050P is also equipped with outstanding features such as a long-term 168-hour continuous recording capability on a single tape and computer control via RS-232C interface. It is, of course, easy to operate. With these many advantages and its S-VHS format, the SVT-S3050P is an ideal choice for demanding surveillance monitoring systems requiring excellent colour picture quality.*



## Outstanding Features

### S-VHS Format - High Picture Quality

The SVT-S3050P is based on the S-VHS format, providing a high level of reliability in time lapse recording for surveillance and security monitoring systems. Thanks to the S-VHS format, the SVT-S3050P reproduces extremely clear playback pictures with a high horizontal resolution of 400 lines for fine detail and an excellent signal-to-noise ratio of more than 45dB. The separate Y (luminance) and C (chrominance) signals carried through S-VIDEO IN/OUT connectors reduce picture deterioration that is normally caused by cross colour and dot interface during signal transmission.

### Convenient One Week, Round-the-clock Recording

The SVT-S3050P offers up to 8 recording intervals. Thanks to its intermittent recording system, the SVT-S3050P achieves a maximum recording time of 168 hours (one week) on a normal 180-minute tape (Sony SE/E-180) by recording one field every 1.14 seconds. This full-featured model with its extra-long recording time and one-shot recording capability is recommended for the most demanding applications requiring long-term, unattended recording and flexible alarm processing/retrieval.

\* Time lapse modes provide three more hours of recording time than standard modes.

	Maximum recording time with a 180-minute tape (hours)	Interval (seconds)	Tape motion
<b>Standard mode</b>	3	1/50	Continuous
	12	0.1	
<b>Time lapse mode</b>	24	0.18	Intermittent
	48	0.34	
	72	0.5	
	96	0.66	
	120	0.82	
	168	1.14	

### Optimum Picture Performance - APC (Adaptive Picture Control)

The SVT-S3050P employs an APC (Adaptive Picture Control) system which is unique to Sony. The APC delivers optimum picture quality to the recorded image. In recording mode, the APC automatically tests an inserted tape and checks the condition of the video heads. This enables the unit to capture images that are clear and as crisp as they can be.

# User-friendly Operation

## Built-in Time and Date Generator

The SVT-S3050P 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 positioned anywhere on the screen using the SHIFT buttons. This ensures a precise record of the date and time of all incidents.

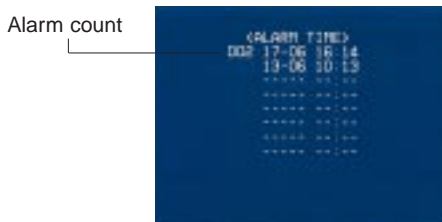


## Alarm Functions

When an alarm system and closed circuit surveillance camera are used, the SVT-S3050P provides alarm recording, recall and scan facilities.

### •Recording

When an alarm signal is received, the SVT-S3050P automatically switches to Alarm Recording mode, even if it is in stop or power-off mode. The alarm recording speed and the alarm recording duration are selectable. During Alarm Recording, the AL indicator flashes in the front panel display window, and the total number of alarm signals is displayed on the monitor.



### •Recall

The alarm recall function displays the eight most recent alarm signals on the monitor, including the date and exact time that they occurred, plus the total number of alarm signals received.

### •Scan

The alarm scan function enables a quick review of alarm segments on the tape.

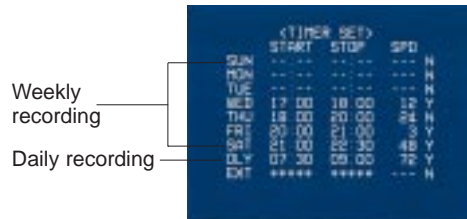
## Auto Repeat Recording

In this mode, the SVT-S3050P automatically rewinds the tape when it reaches the end, and begins recording again. This facilitates virtually continuous, non-attended operation using a single tape. This function can be automatically disabled if the unit is tripped into alarm, to avoid recording over the alarm event.

## Timer Recording for Convenient Scheduling

The SVT-S3050P has a built-in timer which allows exact recording times and the desired recording mode to be preset in advance. Timer recording can be set to either weekly recording or daily recording. In weekly recording mode up to eight timer programmes can be preset for a week. Daily recording mode enables a recording to be made at the

same time every day. This timer recording feature allows the unit to record only what you want, when you want. Of course, even on standby, should an alarm occur, the unit still initiates recording as required. In addition, external timer recording is possible via an EXT TIMER terminal on the rear panel.



## Holiday Setting

For flexibility in weekly recording mode, the SVT-S3050P offers a Holiday setting function. Twenty days can be designated as non-working days or holidays.

## Series Connections

Several SVT-S3050P units can be cascaded via connectors on the rear panel to extend the total recording time.

## Tape Before-End Signal

When the counter reads 02H57M (three minutes before the tape end when using an SE/E-180 tape), the SVT-S3050P outputs a continuous alarm signal until the end of the tape is reached.

## Quick Recording Check Function

During recordings in time lapse mode, by pressing the PLAY/REC CHECK button, the tape is rewound for about three seconds and played back for about two seconds. The unit then returns to its original recording mode. This allows users to quickly check recording integrity.

## Field-by-Field Picture Playback

In still mode, a recording can be played back one field at a time in forward for precise picture search.

## On-screen Display

Settings such as time/date and timer programming are menu-driven making them easy to set and check on the monitoring screen. VTR function status can also be displayed on the monitor screen as well as this time/date information.

## Flexible Remote Control Capability via RS-232C Interface

When an optional SVT-RS1A (RS-232C Interface Board) is installed, the SVT-S3050P can communicate with external equipment such as a personal computer, facilitating remote controlled recording and playback. This feature expands the system versatility of the SVT-S3050P.

## Automatic Clock Setting

By using the CLOCK SET IN/OUT terminal on the rear panel, the clocks in several SVT-S3050P can be adjusted at the same time.

## Camera Switcher Interface

A pulse can be output from the rear panel to a camera switcher. You can specify the switching interval between each camera and set the timing to field or frame, depending on the specifications of the camera switcher.

# Reliable Safety Features

## Clog Detection

The SVT-S3050P detects tape clogging by giving a warning via the WARNING OUT terminal.

## Warning Signal Output

When recording is inadvertently stopped - for example, due to a tape jam - the SVT-S3050P outputs a pulse signal via the WARNING OUTPUT terminal on the rear panel.

## Buzzer Function

An audible sound is emitted during alarm recording or at the end of the tape. This feature can be disabled if silent operation is preferred.

## Security Lock Function

The control panel buttons can be locked, making it impossible to change settings accidentally.

## Protection Against Power Failures

A built-in lithium battery provides protection against power outages, retaining the current time and selected mode for up to 30 days.

## Automatic Head Cleaning

Whenever a tape is loaded, unloaded or rewound in Auto Repeat Recording mode, a cleaning roller passes over the video heads. By helping to prevent head clogging, this reduces maintenance costs and ensures high-quality recording.

# Specifications

## GENERAL

<b>Mass:</b>	Approx. 5.8kg (12 lb 9 oz)
<b>Dimensions (w/h/d):</b>	420 x 100 x 340mm (16 5/8 x 4 x 13 3/4 inches)
<b>Power requirements:</b>	AC220 to 240V, 50/60Hz
<b>Power consumption:</b>	18W
<b>Operating temperature:</b>	5°C to 40°C (41°F to 104°F)
<b>Operating humidity:</b>	Less than 80%

## SYSTEM

<b>Video signal:</b>	CCIR standard (monochrome)/PAL (colour)
<b>Tape speed:</b>	23.39mm/sec (3-hour mode)
<b>Recording/playback time:</b>	3, 12, 24, 48, 72, 96, 120, 168 hours (when using SE/E-180 tape)
<b>Alarm recording speed:</b>	3, 12-hour mode, NC*
<b>Alarm recording duration:</b>	20s, 1m, CC**
<b>Fast forward/rewind time:</b>	Approx. 2.5 min, (when using SE/E-180 tape)

## VIDEO INPUT/OUTPUT

<b>Video recording system:</b>	Rotary two-head helical scanning system Luminance signal: FM recording Colour signal: Low-pass-band-pass transformation direct recording method
<b>Input:</b>	BNC x1: 1.0Vp-p, 75Ω, unbalanced, sync negative
<b>Output:</b>	BNC x1: 1.0Vp-p, 75Ω, unbalanced, sync negative
<b>S/N ratio:</b>	45dB
<b>Horizontal resolution:</b>	Colour: More than 400TV lines Monochrome: More than 400TV lines

## AUDIO INPUT/OUTPUT

<b>Audio recording system:</b>	Monaural
<b>Audio recording time:</b>	3, 12 and 24 hours
<b>Input:</b>	Phono x1: -7.8dBu, 47kΩ, unbalanced
<b>Output:</b>	Phono x1: -7.8dBu, 600Ω, unbalanced
<b>Microphone input:</b>	-60dBu, Ø3.5mm Mini x1: -60dBu, 600Ω impedance
<b>Distortion:</b>	Less than 3% (3-hour mode)
<b>Audio S/N ratio:</b>	43dB

## OTHERS

<b>Alarm input:</b>	Terminal trip x1: Low level
<b>Alarm output:</b>	Terminal trip x1: +5V, 5.7kΩ (low active)
<b>Switch output:</b>	Terminal trip x1: +5V, 5.7kΩ (low active)
<b>Tape end output:</b>	Terminal trip x1: +5V, 5.7kΩ (low active)
<b>Warning output:</b>	Terminal trip x1: +5V, 5.7kΩ (low active)
<b>Timer output:</b>	Terminal trip x1: +12V, 5.7kΩ (high active)
<b>External timer input:</b>	Terminal trip x1: low level
<b>Clock set output:</b>	Terminal trip x1: +5V, 5.7kΩ (low active)
<b>Clock set input:</b>	Terminal trip x1: low level
<b>Series output:</b>	Terminal trip x1: +5V, 5.7kΩ (low active)
<b>Series input:</b>	Terminal trip x1: low level
<b>Remote control input:</b>	3.5mm mini jack

## SUPPLIED ACCESSORIES

AC power cord (x1)  
Operation manual (x1)

## OPTIONAL ACCESSORY

SVT-RS1A RS-232C Interface Board



0dBu= 0.775V rms  
\*NC: No change of recording speed  
\*\*CC: Stays an alarm mode as long as the alarm input remains active. (minimum 5 sec)



Front panel



Rear panel

\* Sony is a registered trademark of Sony Corporation  
\* Design, features and specifications subject to change without notice.

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