

# SONY®

Time Lapse Videocassette Recorder

# SVT-S480ES



**R<sup>2</sup>** REALITY  
REGENERATOR



# S-Video Recording and Playback— for Those Critical Moments

## S-VHS ET (Expansion Technology) Format

Sony S-VHS ET (Expansion Technology) Format allows recording and playback of high resolution (430 TV lines) S-VHS images even when using conventional VHS tapes. The SVT-S480ES automatically detects the recording format of a tape and adopts S-VHS ET format during playback accordingly.

## Real Action

The SVT-S480ES has RealAction (EP: Extended Play) mode in addition to the general time lapse recording (SP: Standard Play) mode. Thanks to RealAction recording technology, the SVT-S480ES achieves high quality time lapse recording. For example, while only 5 fields per second are recorded in general 24-hour time lapse recording mode, Sony RealAction technology allows recording of 20 fields per second - four times as much information. This recording density ensures smooth, natural recording even of fast moving objects.



**RealAction recording** 20 fields/second



**General time lapse recording** 5 fields/second

## Reality Regenerator (R<sup>2</sup>)

The Reality Regenerator improves upon the conventional sharpness control function. While sharpness control makes outlines sharper in the reproduced picture, a side effect of this feature is that it artificially enhances outline edges and increases noise. The result is an unnatural, noisy picture. Reality Regenerator minimizes these side effects by reproducing a video signal very similar to the original. This is achieved by first detecting the edge of the playback signal, separating it into three parts (right, left and center), and then adding the new signal to the playback signal. The result is very little noise and more accurate picture reproduction during playback.

## APC (Adaptive Picture Control)

To provide maximum quality recording at all times, the APC feature automatically detects the condition of the recording head and the videocassette tape, and then sets the optimum recording head current. This feature enables clear images to be recorded even after a long period of use.

## Maximum Recording Times

### When using T-120 (T-160) tape in general recording (SP) mode

Recording Speed	Maximum recording time	Interval	Audio Recording	Tape Motion	
2 (2)	SP Mode	2	1/60	Possible	Continuous
12 (16)	Time Lapse Mode	14 (18)	0.12		
24 (32)		26 (34)	0.22		
48 (64)		50 (66)	0.42		
72 (96)		74 (98)	0.62		
96 (128)		98 (130)	0.82		
120 (160)		122 (162)	1.02		
168 (224)		170 (226)	1.42		
240 (320)		242 (322)	2.02		
360 (480)		362 (482)	3.02		
480 (640)		482 (642)	4.02		
*000	1-shot	7200-21600	1,2,3	Impossible	Intermittent

**NOTE:** In time lapse mode, it is possible to record additionally 2 hours longer than the displayed recording time.

### When using T-120 (T-160) tape in general recording (EP) mode

Recording Speed	Maximum recording time	Interval	Audio Recording	Tape Motion	
6 (8)	EP Mode	6 (8)	1/60	Possible	Continuous
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 (128)		102 (134)	0.28		
120 (160)		126 (168)	0.35		
168 (224)		174 (232)	0.48		
240 (320)		246 (328)	0.68		
360 (480)		366 (488)	1.02		
480 (640)		486 (648)	1.35		
*000	1-shot	21600-64800	1,2,3	Impossible	Intermittent

**NOTE:** When using a T-120 tape in 48-480 H modes, it is possible to record additionally 6 hours longer than the displayed recording time.

When using a T-160 tape in 64-640 H modes, it is possible to record additionally 8 hours longer than the displayed recording time.

## Variety of Recording Modes

### Auto Repeat

Automatically rewinds the tape when it reaches the tape end, and re-starts recording. It allows virtually continuous, non-attended operation using a single tape. Auto Repeat can be automatically disabled in Alarm Recording mode to prevent recording over an alarm event.

### Timer Recording

A built-in timer allows the recording time and the desired recording mode to be set in advance. Timer Recording can be preset to either weekly or daily.

Holiday and daylight settings are also available.

External timer recording is available via the EXT TIMER IN terminal. Even in Standby mode, if an alarm occurs, the unit initiates recording as required.

■ TIMER SET			
WEEK	START	STOP	SPEED
SUN	----	----	---
MON	----	----	---
TUES	----	----	---
WED	----	----	---
THU	----	----	---
FRI	----	----	---
SAT	----	----	---
MON-SUN	----	----	---
EXT	----	----	---

< NEXT PUSH >>

SELECT: ▼ / ►    DATE SET: +/-    RETURN: MENU

### Alarm Recording

When an alarm signal is received via ALARM IN terminal, the recorder automatically switches to Alarm Recording mode, even if it is in Stop or Power-off mode. Alarm Recording speed and duration can be set in advance.

Various functions such as Alarm Scan, Alarm Recall and Alarm Search are available to quickly locate and review recorded alarm segments.

Up to 100 Alarm data can be recorded\* at the top of the tape. So, even if the tape is ejected, the data is retained on the tape and reviewed when necessary.

\*This function can be disabled.

### Series Recording

Several units can be cascaded to extend the total recording time. As soon as one unit finishes recording, the next unit is turned on and continues recording without interruption.

## Reliable Safety Features

### Quick Recording Check

If the REC CHECK button is pressed when recording in time lapse mode, the tape rewinds slightly and then plays back for about three seconds. The unit then returns to its original recording mode.

### Power Failure Protection

In case of 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.

### Warning Signal Output

If recording is inadvertently stopped, a pulse signal is output via the WARNING OUT terminal.

### Tape Use Frequency Check\*

Records the number of times the tape has been used at the beginning of the tape for checking.

\*This function can be disabled.

### Automatic Head Cleaning

### Thread Check

### Clog Detection

### Tape End Out

### Security Lock Function

## User-friendly Operation

- Fast forward and rewind: 100 seconds with an entire T-120 tape
- Quick start mechanism for smooth operation
- Improved Time/Date search accuracy: 10 minute increments
- Alarm list recording: At the tape end, if there were any alarms received during recording, the tape is rewound and the alarm list information is recorded onto the tape.
- Real-time display indicates real operating times in recording or stop modes
- On-screen display available in English, French, and German
- Built-in time and date generator
- Automatic clock adjust
- Remote control function with optional remote control unit
- Used time indicator
- Power saving mode
- Loop-through capability
- Camera switcher interface
- RS-232C/RS-485 interface

