SONY

S-VHS Videocassette Player
SVP-5600

SVHS

Professional S-VHS Editing Player

Sony presents the SVP-5600 high quality S-VHS editing player, which in combination with the SVO-5800 S-VHS Editing Recorder lets you create a flexible and cost-efficient editing system.

The SVP-5600 is the result of Sony's accumulated experience and commitment to the development of VTRs. This model ensures dependable and convenient operation in the professional editing environment. The SVP-5600 boasts advanced features including a built-in time base corrector, a built-in LTC/VITC time code reader and user-friendly menu operation. An RS-422A interface port is also provided for versatile editing system expansion and flexible system control. The optional Component Out capability allows easy integration into Betacam SP® based editing systems.

Used in combination with the SVO-5800 and an editing controller, the SVP-5600 is an important tool in any professional editing system–from a basic two-machine editing system to a full-featured A/B roll editing suite.

Features

Excellent Video/Audio Quality

S-VHS format

The SVP-5600 provides superb color picture quality with high resolution and excellent signal-to-noise ratio by using the S-VHS format combined with high quality signal processing techniques including a Digital Noise Reducer, a Digital Field Dropout Compensator, Chroma Process Improvement and more. This model incorporates a wide video head gap and track width (58μm) for stable and faithful picture reproduction.

Built-in Time Base Corrector

A TBC (Time Base Corrector) is essential in such system applications as A/B roll editing to eliminate VTR jitter and for the proper adjustment of phase difference. The SVP-5600 is equipped with a built-in TBC. Featuring 4fsc sampling and 8-bit quantization, this TBC offers superior picture quality without any additional time base correction. A separate Digital Noise Reducer for both Y (luminance) and C (chrominance) signals minimizes noise during playback. A field memory incorporated in this noise reducer removes jitter to give stable, sharp images. This field memory also enables a Digital Field Dropout Compensator to be included which replaces a signal dropout with information from the previous field. In addition, the field memory feature also provides clear and crisp still images.

Chroma Process Improvement

The SVP-5600 also incorporates Chroma Process Improvement to achieve excellent color picture quality in the playback mode. This makes a chroma edge sharper and greatly improves the chroma band width, thus enabling sharper and clearer color picture reproduction.

Four Channel Audio Playback System

The SVP-5600 incorporates a four-channel audio playback system to cater to a wide range of applications. Two channels use Hi-Fi (AFM) tracks and two use normal longitudinal tracks. The Hi-Fi mode provides a superb 90dB dynamic range and a wide frequency response for high quality sound reproduction. XLR type connectors are used for all four channels, allowing direct connection to professional audio products.

Dolby Noise Reduction

A Dolby™ Type B noise reducer is incorporated in the longitudinal audio channels to provide high quality sound.

Advanced Editing Player Operation

Frame Accurate Editing

When connected with the SVO-5800 Editing Recorder and an RS-422A equipped editing controller such as the Sony FXE-100 or PVE-500, the SVP-5600 functions as an editing player.

The SVP-5600 ensures precise, frame accurate, video editing in both assemble and insert editing modes. This is achieved by a sophisticated servo system, an improved quick response mechanism and built-in LTC/VITC time code capability. In addition to conventional video program production, this function is also suitable for animation and computer graphics (CG) creations, where a frame by frame editing function is indispensable.

FXE-100

Built-in SMPTE Time Code Reader

Time code is indispensable for precise, frame accurate editing. The reading of SMPTE standard LTC (Longitudinal Time Code) and VITC (Vertical Interval Time Code) is built into the SVP-5600. User bits are also provided. LTC uses the longitudinal normal audio CH-2 track to identify the absolute address of a frame. VITC is recorded in the vertical blanking interval of the video signal. This is especially useful for identification of Time Code in slow or still playback mode. VITC also permits both normal audio channels (CH1 and CH2) to be used simultaneously. For connection to an external TC reader, TIME CODE OUT connector is also provided.

TBC Control

All parameters of the TBC, such as luminance level, chroma level, setup, hue, Y/C delay, sync phase and SC phase are locally controlled from the front panel and also remotely controlled from the optional UVR-60 TBC Remote Controller. The field freeze function is also accessible in the still mode by using the UVR-60 or the optional SVRM-100 Remote Control Unit. In addition, CNR (Chroma Noise Reducer) and YNR (Luminance Noise Reducer) are ON/OFF switchable with the UVR-60.

9-pin REMOTE Interface (RS-422A serial)

The SVP-5600 has the industry standard 9-pin REMOTE Interface for integration with a Sony 9-pin based editing system. The 9-pin connector carries edit commands and time code data between the VTR and an editing control unit. The SVP-5600 can be installed in almost any editing configuration– from basic two-machine editing to a fully featured A/B roll editing system.

Versatile System Interface

S-video Signal Output (4-pin DIN)

The SVP-5600 is fitted with an S-VIDEO OUT connector which carries separate Y (luminance) and C (chrominance) signals. This reduces picture deterioration due to cross color and dot interference during signal transmission. For secure connections, Sony employs a locking connector which is compatible with current S-VIDEO connectors and cables.
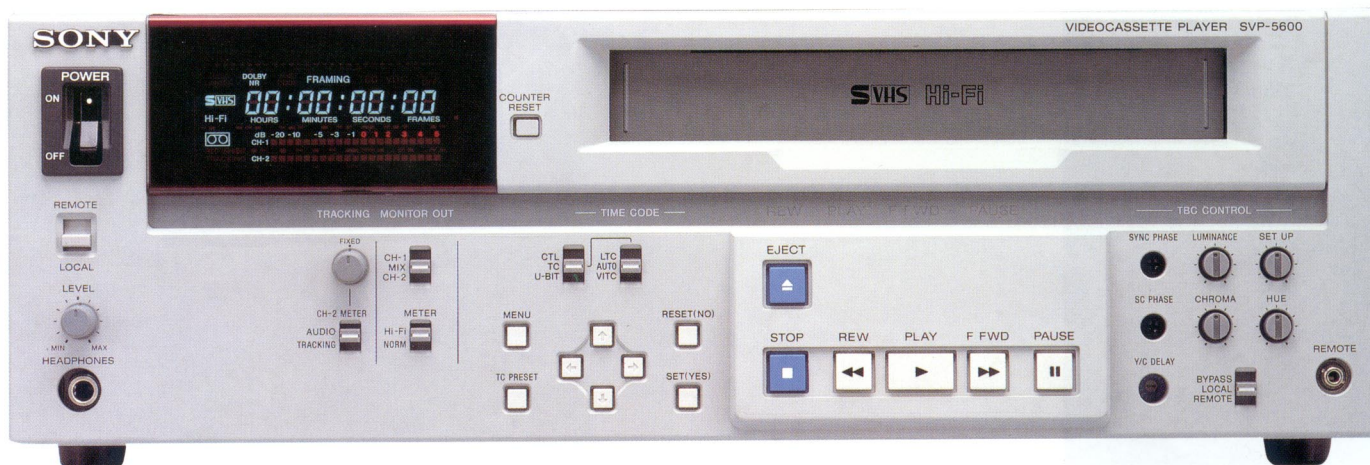
Composite Video Signal Output

In addition to the S-video connector, the SVP-5600 is equipped with a composite video signal output for system integration with a variety of video equipment.

Optional Y/R-Y/B-Y Component Video Signal Output

By installing the optional SVBK-170 Component Output Board, the SVP-5600 provides Y/R-Y/B-Y component signal output through BNC connectors. By using this component signal output, the SVP-5600 can be integrated with Betacam SP based component editing systems.
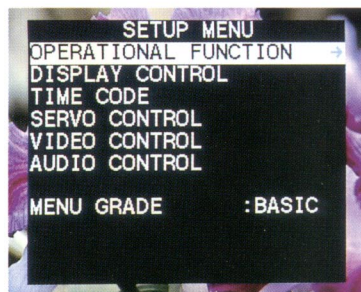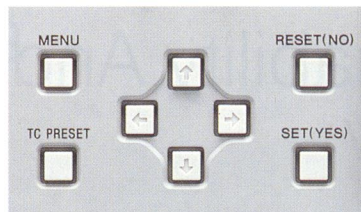
User Friendly Convenient Operation

Character Superimposition

The SVP-5600 has a built-in character generator which superimposes characters on the output signal obtained

VT*R 00:00.00.00

at the VIDEO MONITOR OUT connector. This allows time code data (LTC, VITC, U-bit), CTL and VTR function status to be shown on a monitor. Menu items can also be displayed for system setup.

On-Screen Setup Menu

To provide efficient operation, a VTR mode setup menu is incorporated in the SVP-5600, allowing a variety of customized VTR mode operations. The setup menu is programmed in the form of a layer structure. By simply

SETUP MENU
OPERATIONAL FUNCTION →
DISPLAY CONTROL
TIME CODE
SERVO CONTROL
VIDEO CONTROL
AUDIO CONTROL

MENU GRADE   :BASIC

going through the menu using setup menu buttons on the front panel, users can easily initialize the VTR. Menus are displayed on a monitor connected to the VIDEO MONITOR OUT connector.

Quick and Smooth Picture Search

The picture search mode can be operated by using the optional SVRM-100 Remote Control Unit or with an RS-422A equipped editing controller. Recognizable color pictures are provided at various speeds over a range of up to 10 times normal speed in both forward and reverse to allow any desired point in the tape to be quickly located. In the JOG mode, field by field, accurate picture search is available to precisely locate edit points. Also, when controlled from an RS-422A equipped editing controller, a very rapid response to the search dial control has been achieved thanks to the powerful capstan servo system.

Cue Up Point Preset

Cue up points can be preset by using the setup menu buttons on the front control panel. This provides very quick access to the desired editing points and reduces editing time.

Correspondence to 16:9 Wide Screen

The SVP-5600 corresponds to the 16:9 wide screen TV signal. The SVP-5600 can automatically detect a 16:9 wide screen ID signal, and then pass it to other video equipment.
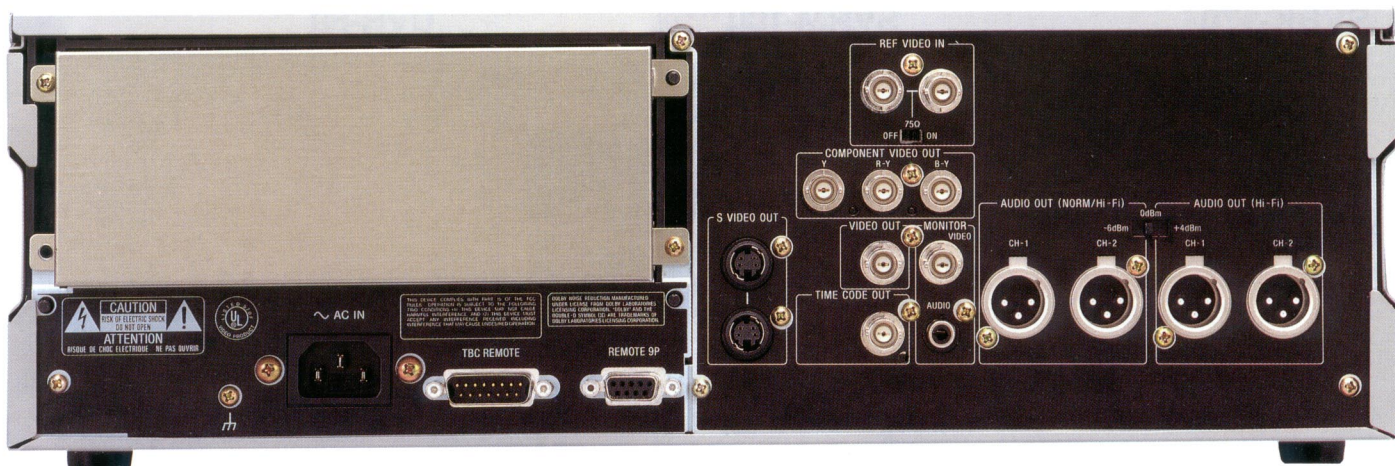
High Reliability And Durability

Reliable Mechanism

Utmost attention has been paid to ensure high durability and reliability of the SVP-5600. A rigid aluminum diecast chassis and head drum are examples of the care taken to ensure the highly stable operation of the SVP-5600.

Quick Response Mechanism

Sony's tape transport system achieves outstanding operational performance. The SVP-5600 has separate direct drive reel motors for the supply and the take-up sides. These provide rapid response and smooth operation, with mode transitions such as STOP to PLAY, FAST FWD to PLAY, STOP to REWIND being virtually instantaneous.

Auto Head Cleaner

Each time a cassette is loaded or ejected, a cleaning roller automatically passes over the video/FM audio (rotary) heads, removing tape residue and providing preventive care of the tape heads.

Compact, Lightweight And Low Power Consumption

The SVP-5600 has a compact, lightweight design and is engineered for low power consumption. The unit weighs only 11.5kg (25 lb 6 oz) and 3 units high (19-inch rack mountable with the optional RMM-980). Thanks to a drastic reduction in the number of electronic components, the incorporation of a newly developed single-chip microcomputer, and other state-of-the-art developments, SVP-5600 power consumption is held to a low 53W.
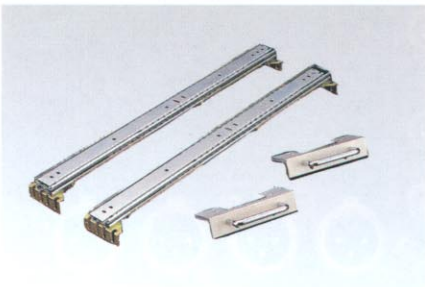
Optional Accessories

Component Output Board
SVBK-170

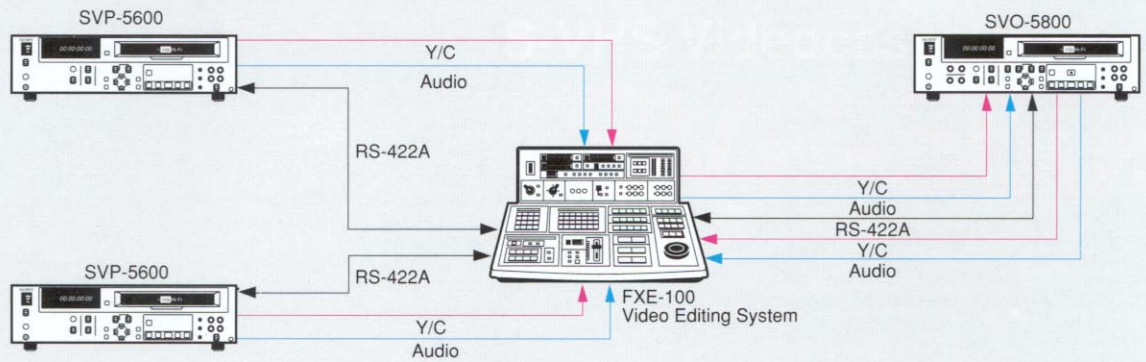Remote Control Unit
SVRM-100

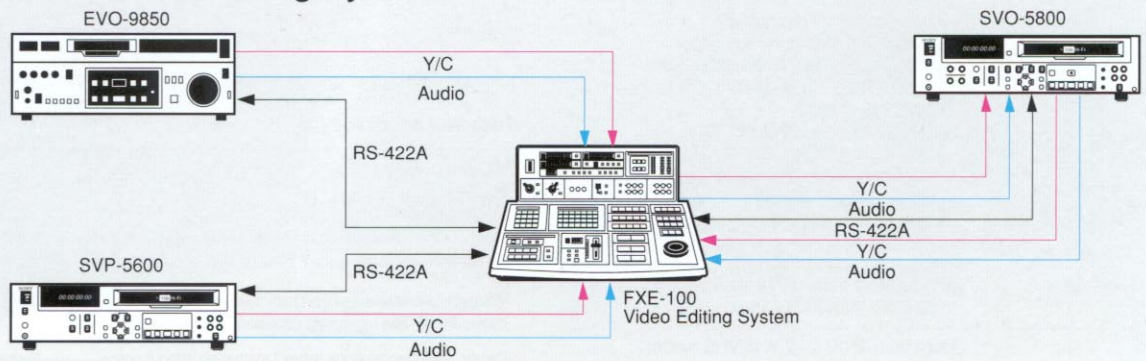TBC Remote Controller
UVR-60

Rack Mount Kit
RMM-980

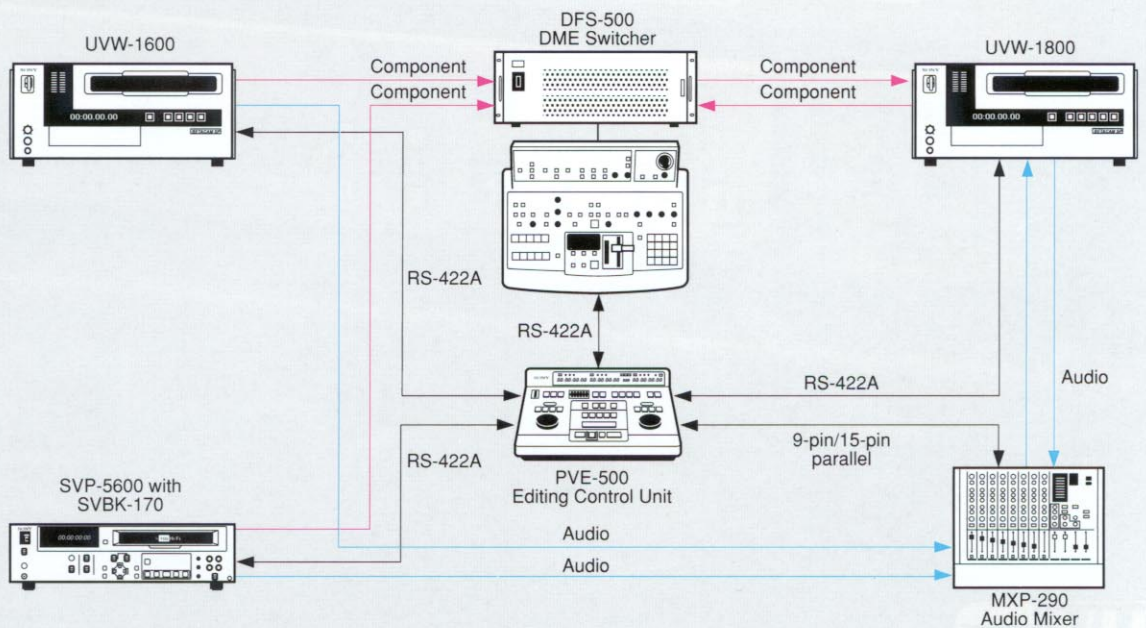S-VHS Videocassette
MQST-30/60/120

System Connections

S-VHS A/B Roll Editing System

SVP-5600

SVO-5800

Y/C
Audio

RS-422A

Y/C
Audio
RS-422A
Y/C
Audio

SVP-5600

RS-422A

FXE-100
Video Editing System

Y/C
Audio

Hi 8/S-VHS A/B Roll Editing System

EVO-9850

SVO-5800

Y/C
Audio

RS-422A

Y/C
Audio
RS-422A
Y/C
Audio

SVP-5600

RS-422A

FXE-100
Video Editing System

Y/C
Audio

Betacam SP/S-VHS A/B Roll Editing System

UVW-1600

DFS-500
DME Switcher

UVW-1800

Component
Component

Component
Component

RS-422A

RS-422A

RS-422A

RS-422A

Audio

9-pin/15-pin
parallel

SVP-5600 with
SVBK-170

PVE-500
Editing Control Unit

Audio
Audio

MXP-290
Audio Mixer

Specifications

General

Weight:	11.5kg (25 lb 6 oz)
Dimensions (W x H x D):	425 x 145 x 457mm (16 ³/₄ x 5 ³/₄ x 18 inches)
Power requirements:	AC 120V, 60Hz, 3 wire grounded receptacle
Power consumption:	53W
Operating temperature:	5 to 40°C (41 to 104°F)
Tape speed:	33.35mm/s
Tape format:	S-VHS or VHS
F FWD and REW time:	Approx. 2.5min. (with T-120)
Search speed : (with optional SVRM-100)*	SHUTTLE: STILL, 1/30, 1/10, 1/5, 1/2, 1, 2, 10 times normal speed, forward and reverse JOG: Frame by frame, forward and reverse

Video

Video signal:	NTSC (color)/ EIA (monochrome)
Input:	REF VIDEO IN (BNCx2, loop-through): Black burst or 1.0Vp-p, 75Ω, unbalanced, sync negative
Outputs:	COMPOSITE OUT (BNC): 1.0Vp-p, 75Ω, unbalanced, sync negative S-VIDEO OUT (Mini DIN 4-pinx2): Y; 1.0Vp-p, 75Ω, unbalanced, sync negative C; 0.286Vp-p (burst), 75Ω, unbalanced COMPONENT OUT (BNCx3, with optional SVBK-170): Y; 1.0Vp-p, 75Ω, unbalanced, sync negative R-Y; 0.7Vp-p, 75Ω unbalanced B-Y; 0.7Vp-p, 75Ω, unbalanced VIDEO MONITOR OUT (Super) (BNC): 1.0Vp-p, 75Ω, unbalanced, sync negative
Horizontal resolution:	S-VHS: More than 400TV lines VHS: More than 240TV lines
S/N ratio:	More than 47dB (in S-VHS/VHS mode)

Audio

Outputs: (0dBu=0.775Vrms)	Normal CH-1/2 (XLR): +4/0/-6dBm selectable at 600Ω load, low impedance, balanced Hi-Fi CH-1/2 (XLR): +4/0/-6dBm selectable at 600Ω load, low impedance, balanced AUDIO MONITOR OUT (PIN): -5dBu, at 47kΩ load, unbalanced HEADPHONE OUT (STEREO PHONE): -50 to -18dBu at 8Ω load unbalanced
S/N ratio (Normal audio at 3% distortion, Dolby OFF):	More than 43dB
Frequency response:	Normal: 50Hz to 12kHz Hi-Fi: 20Hz to 20kHz
Dynamic range:	More than 90dB (in Hi-Fi mode)

Others

TIME CODE OUT (BNC):	0dBu±3dB at 10kΩ load, unbalanced (0dBu=1.55Vp-p PULSE)

Remote

TBC REMOTE:	15-pin multi
REMOTE:	9-pin multi, SMPTE RS-422A standards
WIRED SIRCS:	Control-S (Power supplied type)

Supplied accessories

AC power cord (1)
Operation manual (1)

* Without the SVRM-100 attached, picture search is conducted at ± 10 times normal speed by continuously pushing the F FWD or REW button.

"Dolby" is a trademark of the Dolby Laboratories Licensing Corporation.
"Betacam SP" is a registered trademark of Sony Corporation.

Design and specifications subject to change without notice.

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