SONY

Editing Control Unit

RM-450

The RM-450 Editing Control Unit is designed to make two-machine editing operation easy and effective.
The RM-450 has 33-pin remote control interface connectors and can be connected to 33-pin equipped editing VTRs directly. Also, 9-pin remote control interface (RS-422 serial interface) connectors are provided to allow the RM-450 to be connected to 9-pin equipped VTRs. Furthermore, mixed operation of 33-pin and 9-pin equipped VTR can be executed.
The RM-450 has many features which allow easy editing, a keyboard layout which minimizes key strokes, a JOG/SHUTTLE DIAL on both the player side and recorder side for convenient picture search operations, the Time Code/CTL/Relative Time Code editing modes for easy and accurate editing, the in-point auto counter reset function for convenient editing, and much more.

Features

33-PIN INTERFACE AND 9-PIN INTERFACE

The RM-450 provides 33-pin remote control interface connectors and 9-pin remote control interface (RS-422 serial interface) connectors on both the player side and recorder side. The RM-450 can be connected to various VTRs, such as the VO-5850/5800, which has a 33-pin interface, as well as VO-9850 series U-matics and other 9-pin equipped VTRs.
Each player VTR and recorder VTR can be selected via the 9-pin/33-pin switches on the front panel. Therefore, the RM-450 can edit using any combination of 33-pin and 9-pin equipped VTRs.

TIME CODE/CTL/RELATIVE TIME CODE EDITING

When a 9-pin equipped VTR is connected, the RM-450 not only allows CTL based editing but also makes Time Code based editing possible. Furthermore, the RM-450 provides the Relative Time Code (RTC) editing mode, in which time code is used as an edit reference and time code progress is counted like CTL on the LED counter. It has the feel of CTL editing with the precision of time code editing. The AUTO COUNTER RESET function, in which the editing point first designated is automatically reset to "0:00:00:00", is also provided.

EDITING FUNCTIONS

The RM-450 can use the Assemble and Insert (V/A1/A2) edit modes, and provides editing functions such as editing IN-POINT/OUT-POINT ENTRY, PREVIEW, TRIM, AUTO EDIT/END, REVIEW/JUMP, GO TO, AUDIO SPLIT, and LAST EDIT. The function keys are laid out to enable easy operation.

EASY OPERATION

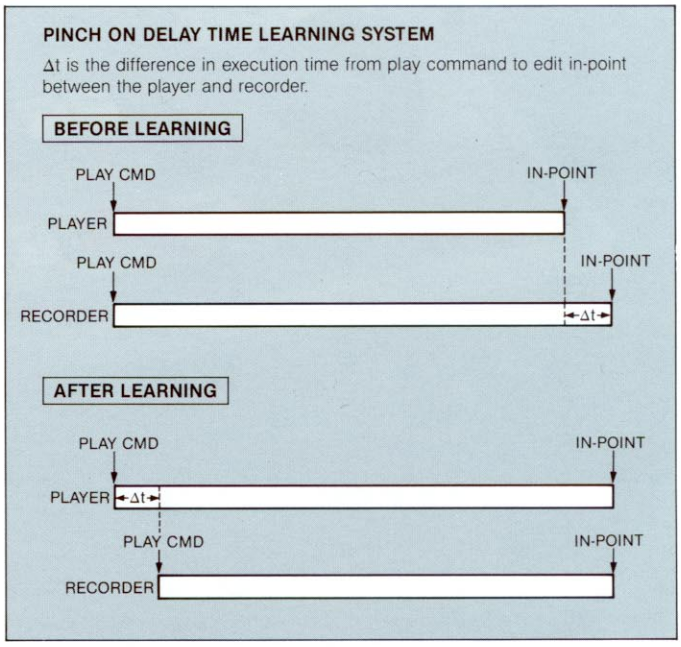
The RM-450 provides JOG/SHUTTLE dials on both the player side and recorder side and the function keys are laid out for easy operation to meet user demands. The RM-450 JOG/SHUTTLE dial operation adds a new dimension to the VO-5850/5800 by providing a JOG function. The RM-450 can remotely control basic functions of VTRs such as PLAY, STILL, FF, REW, STAND BY, EJECT, REC, and EDIT. (The EJECT function can be executed only on 9-pin equipped VTRs. The REC and the EDIT keys are only on the recorder side.)

SYNCHRONIZED CAPABILITY

The RM-450 accepts REF. VIDEO IN (reference video input) for synchronized operation. Therefore, when a reference video signal is input, the RM-450 can perform absolutely precise synchronized editing. The synchronization precision can be selected via the SYNCHRONIZE GRADE switch.

PINCH ON DELAY TIME LEARNING CAPABILITY

The RM-450 detects differences between the pinch on delay times of the player and recorder and stores them in the memory using the LEARN function. The RM-450 can change the play command timing of one of VTRs to adjust the timing of the edit in-points automatically.



AUDIO SPLIT EDITING

The RM-450 provides the AUDIO SPLIT function, which allows the audio edit in-point to be set differently from the video edit in-point. Therefore, the RM-450 can effectively edit sound or music.

EASY MODE SETTING

Mode setting is very easy and convenient when using the preset switches on the front panel.

- 33-PIN/9-PIN
- CTL/RTC/TC
- PREROLL TIME: 3/5/7/10
- EDIT TIMING: AUTO/−1F ~ −7F
- SIGNAL STANDARD: 30F/25F
- CUE OUT SIGNAL TIMING: −7 SEC ~ 7 SEC FROM IN-POINT
- BEEP SOUND: ON/OFF
- SYNCHRONIZED VTR: PLAYER/RECORDER
- SYNCHRONIZE GRADE: 0F/±1F ~
- EDIT ENABLE WITHOUT SERVO LOCK: ON/OFF
- CTL DISPLAY: 24H/±12H
- SLO-420 USE: ON/OFF
- AUTO COUNTER RESET: ON/OFF

ERROR MESSAGE

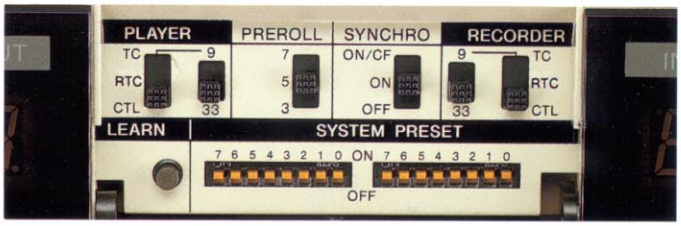
The RM-450 indicates the "Error" and error number on the LED counter along with a warning sound to point out misoperation. The error number is explained on the error message chart.

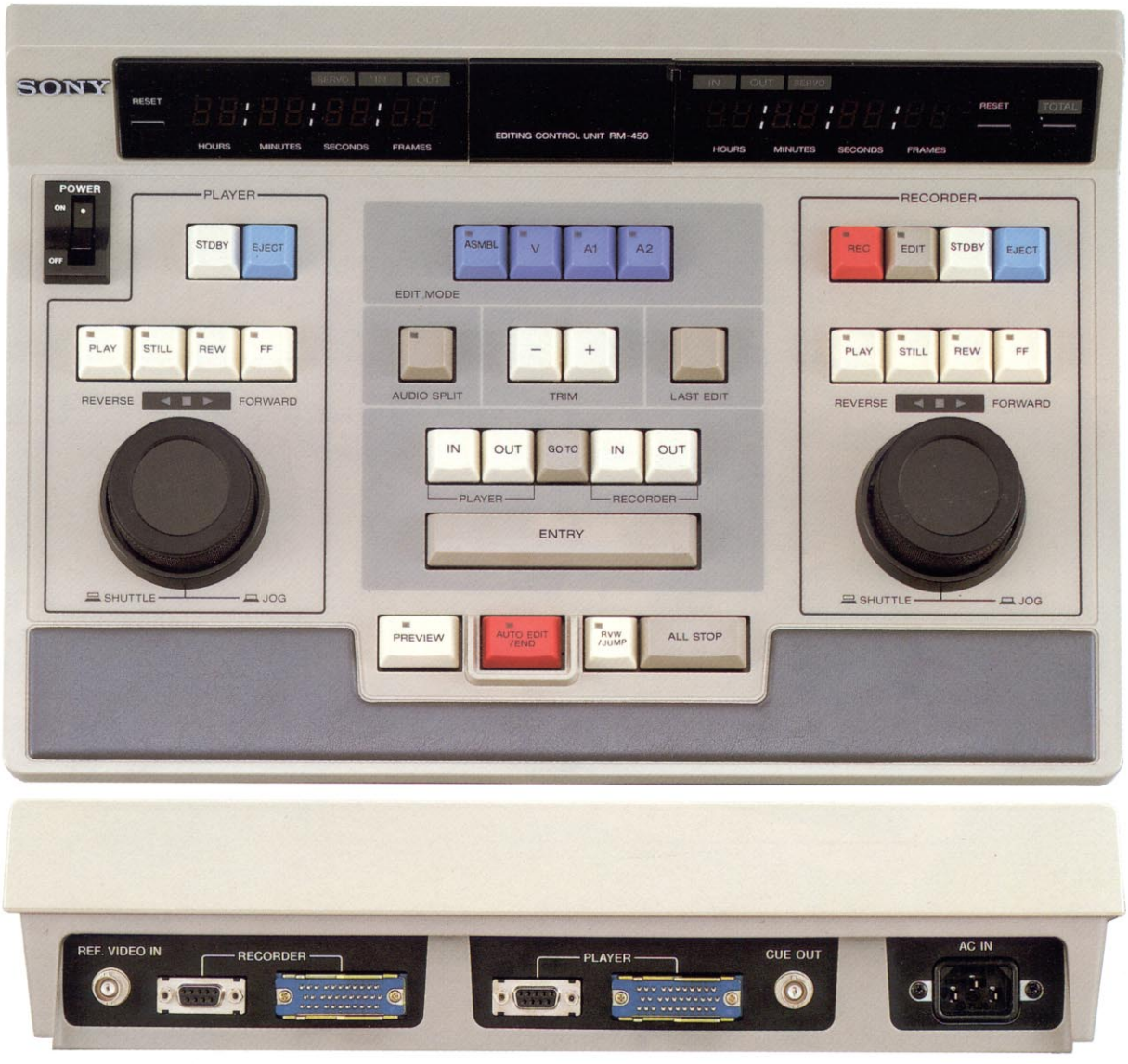
CUE SIGNAL OUT

A cue pulse out from the RM-450 is provided for external equipment on which an external start trigger capability is equipped.

SELF-DIAGNOSTICS

The RM-450 has a built-in self-diagnostic function to improve serviceability and make maintenance easy.





Specifications

Power requirements:	AC 108 ~ 132V, 48 ~ 63Hz (RM-450) AC 198 ~ 264V, 48 ~ 63Hz (RM-450CE)
Power consumption:	11W
Weight:	Approx. 3.1 kg (6 lb 13 oz)
Dimensions:	390(W) × 93(H) × 265(D)mm ($15\frac{3}{8} \times 3\frac{3}{4} \times 10\frac{1}{2}$")
Operating temperature:	0°C ~ 40°C (32°F ~ 104°F)
Storage temperature:	−20°C ~ 60°C (−4°F ~ 140°F)
Edit Reference:	Control track signal, SMPTE/EBU LTC (Longitudinal Time Code), VITC (Vertical Interval Time Code)
REF VIDEO IN	
Reference video input:	0.5Vp-p ~ 2.0Vp-p, negative, 75 ohms, unbalanced
External sync input:	0.5Vp-p ~ 5.0Vp-p, negative, 75 ohms, unbalanced
CUE OUT	
Cue pulse signal:	Active low: low level 0V ~ 0.5V high level 3.5V ~ 5.0V

SUPPLIED ACCESSORIES

AC power cord (1)
Error message chart (1)
Operation manual (1)

OPTIONAL ACCESSORIES

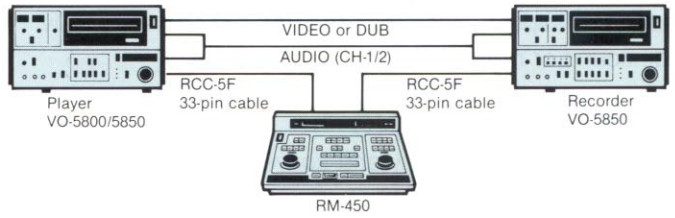
RCC-5F 33-pin remote control cable
RCC-15FT 33-pin remote control extension cable
RCC-5G/10G/30G 9-pin remote control cable
RMM-450 Rack mount kit
(for 19" EIA and SONY SU-512 rack)
SU-450 Double size table (for SONY SU rack)

Ordering information: The RM-450 and RM-450CE are only different in power requirements.

Design and specifications subject to change without notice.

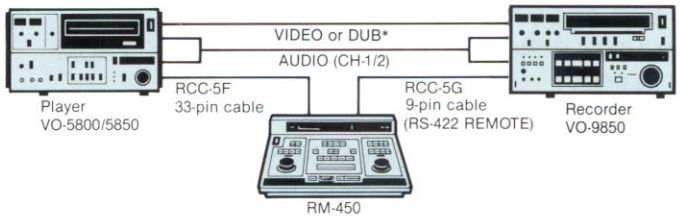
System Connections

Example (1) Two 33-pin Equipped VTRs

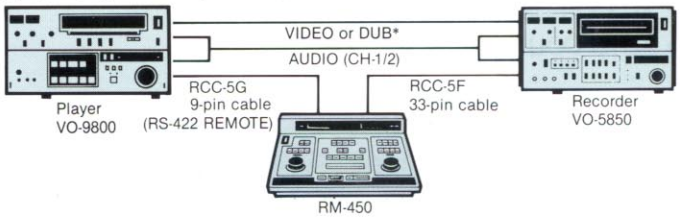


Example (2) One 33-pin Equipped VTR and One 9-pin Equipped VTR

(A) 33-pin equipped VTR Player and 9-pin Equipped VTR Recorder

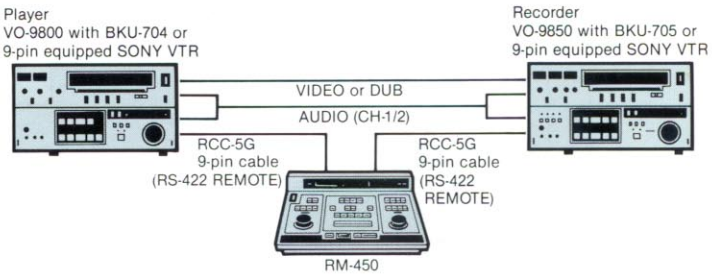


(B) 9-pin Equipped VTR Player and 33-pin Equipped VTR Recorder



*NOTE: In the PAL system, the DUB OUT connection cannot be used due to the signal differences between the SP/High Band of the VO-9800P/9850P and Low Band of the VO-5850P/5800PS.
Therefore, the VIDEO IN and VIDEO OUT connection must be used.

Example (3) Two 9-pin Equipped VTRs



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