

## Setting in short time, superior operation to prevent mistake Excellent live switcher with simple operation

2 cameras  
by 1 person

Recording with  
max. 5 cameras

26pin equipped  
3 channels

Adopting  
Gen-lock system

Direct  
Cutting

Overlap

Cable  
Compensation

Auto Take

External  
Remote Control

External  
Tally Out

Built-in  
Intercom

EIA4U  
Rack-mount

AC Power

Black and White  
Mat

REC PGM OUT  
x6

SYNC OUT  
x6

Monitor OUT  
x5

XLR4P  
DC 12VIN



### Super live switcher VSE-500



It demanded more high-quality picture and the simple operability.

Currently available NTSC version only

It suppressed the degradation of the video quality to the minimum in utilizing the merit of the analog switcher to the full and adopting a gen-lock method. Also, simple switching with 2 types to seem to be necessary for the field operation, only overlap and direct-cut. Direct-cut does not generate the disorder of the picture even if it changes it by the same bus and can switch over beautifully.

It is equipped with 3 sets of 26-pin camera connectors.

The recording is possible with maximum merit of 26-pin connecting. It makes the work and the facilities such as connecting cables which was taking much time a minimum and it makes a setting at short time possible.



## Super quick setup without the measuring equipment

### S.C.PHESE

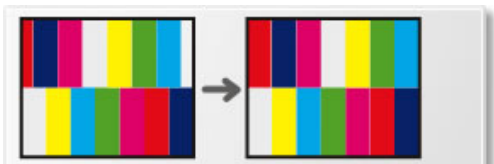
It adjusts S.C.PHESE (sub-carrier) at the camera side. The output of the camera can be adjusted at color balance without using measuring equipment in adjusting S.C.PHESE of the 2<sup>nd</sup> or other camera by the wipe function.



The condition of adjustment finished after SC of the camera was adjusted and color tone became almost same

### H.PHESE

It adjusts H.PHESE (sub-carrier) at the camera side. Adjustment is done by seeing H.PHASE LED of VSE-500. LED changes into the green from the red, and the synchronization finished.



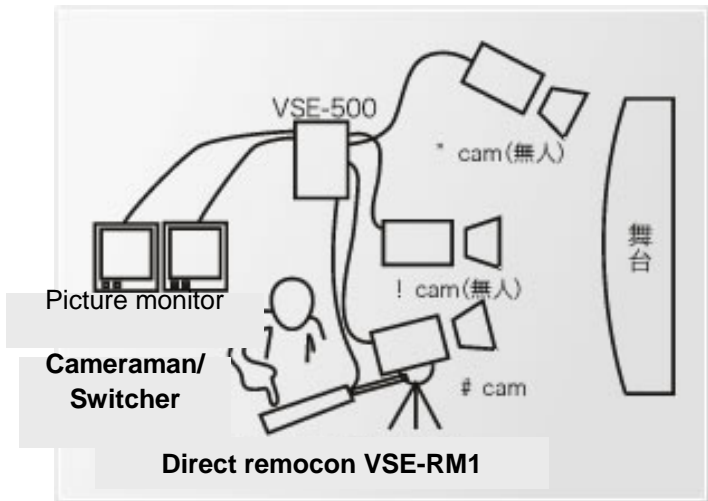
The condition that synchronization of two cameras finished after the adjustment of H.PHESE of the camera.

## Tally out and the return video

It is supporting Tally out and the return video out which utilized an advantage with 26 pin connections. It is very useful function when the cameraman wants to know which picture of the camera is used. It was realized first time as a live switcher.

## The auto take mode makes the operation of 2 cameras, 3 cameras by one person possible

By using REC switch like pen type auto takes switch AR-53, PROTEC zoom lens remote control AS-520 and Libec zoom lens handle PH-9 and so on available separately, the auto take can be done. Also, when it is connected by the 26 pin camera cable, it realized auto take with the trigger of REC of the camera side. By this function, even when camera crew is arranged sufficiently, each cameraman can switch a best shot to the main line, and the new recording method can be looked forward too.



2 types of Gen-lock system are adopted.  
Synchronization with 1 camera video signal as standard  
Input of external synchronization signal

Also, it made Tally display which used BNC connection by the use of TU-500 and TU-10 of the option possible. If 26 pin connection is not used, the recording which used Tally becomes possible.



## Auto take from the camera REC trigger

At the time of 26 pin connection, the auto take of VSE-500 can be done with the camera REC trigger.

It realizes switching by the will of the cameraman.

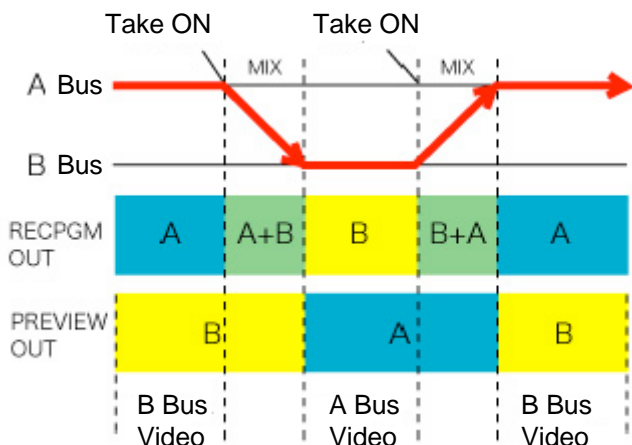
ON/OFF is possible with the changeover switch on the panel.



## Support various recording place!!

### Monitor preview function is equipped.

Usually 3 monitors for 3 cameras and 5 monitors for 5 cameras are necessary at the recording place to decide which camera's picture shall be used next. VSE-500 made picture monitoring possible with two monitors only at the recording by several cameras.



## 3-set monitor, 6-set monitor (option)

3-set or 6-set liquid crystal monitor with the high intensity and high contrast LCD panel is available as option. It can be installed to a carrying case with the optional rack mount hardware HS-RA70. It makes all-in-one recording possible.



## Cable compensation

### Up to 100M wiring is possible.

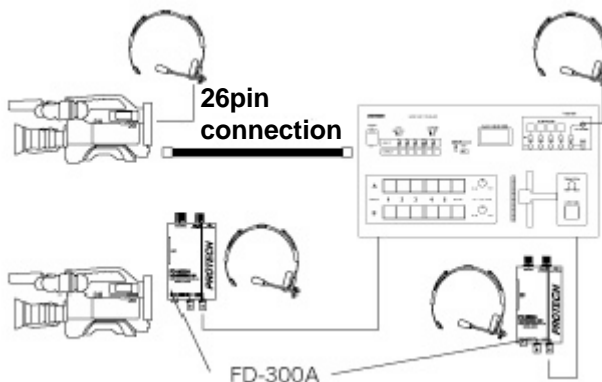
It prepared the equal to or less than 25 m, equal to or less than 50 m, equal to or less than 100 m cable compensation changeover switch by 3 modes. The degradation of the video signal by the length of the cable can be made up with this function. It is supporting either of 26 pin connections, the BNC connection.



## Intercom built-in

By the built-in Intercom station function, Intercom system can be easily built. Direct connection of 5 sets FD-300A of wired type intercom is possible.

It realized communication with Sony camera in 26pin connection.



# PROTECH®

Various options which realizes space saving for installation and the time reduction for carry-in and carry-out

## Strong support for all-in-one recording

It is possible to install VSE-500 and the hyper limiter FS-206 at the same time by using optional rack mount hardware HS-RA70. Furthermore, by fixing to carrying case SC-500, 3-set LCD monitor LVM-530 and AC power plate AC-530 can be mounted at the same time. Carry-in and carry-out of the set can be done in short time.



6-set LCD monitor can be mounted.



When you order 6-set LCD monitor, please write "6-set LCD monitor" on the order sheet.

We ship the connection metal for it with the equipment.

Tally unit



### TU-10

The extension kit to make Tally display from VSE-500 possible with TU-500 (option)

VSE-500 Tally adaptor



### TU-500

The extension kit to make Tally display from VSE-500 possible with TU-10 (option)

3-set LCD monitor



### LVM-530

The 3-set LCD monitor. It can be stored in SC-500 by the attached condition.

AC power for LVM-500



### AC-530

AC power unit for LVM-530. It can be stored in SC-500 by the attached condition.

Headset



### FL-301

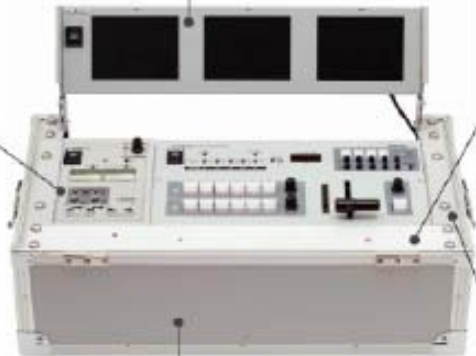
Headset for VSE-500/200,FD-300A

Hyper Limiter



### FS-206

It suppresses the excessive input of +30dB instantly and it prevents distortion of the sound. Rack mount to HS-RA70 is possible.



Direct remote controller



### VSE-RM1

The direct selection auto take remote control which realizes 2 cameras, 3 cameras for 1 person. Cable length is 3 m.

Remote auto take switch



### AR-53

Auto take switch of VSE-500. It realizes 2 cameras, 3 cameras for 1 person attached to Pan stick of tripod. Cable length is 1 m. Extension cable 3m is attached

Carrying case



### SC-500

The hard case to defend against the outward impact when moving VSE-500. To fix VSE-500, rack mount hardware HS-RA70 is necessary.

Rack mount hardware



### HS-RA70

The adapter to rack-mount VSE-500 to 4U size. FS-206 can be mounted at the same time, too.

CCU adaptor



### VCU-5

The adapter cable which connects with Sony CCU-M3/M5/M5A/M7 and VSE-500. In case of CCU of the other model, please let us know.

# PROTECH®

## VSE-500 Specifications

Input / Output	Video system	NTSC
	Input signal	Video input: 5 inputs, Composite VBS, 1.0V <sub>p-p</sub> , 75ohm BNC
	Output signal	REC 2, PGM 4 VBS 1.0V <sub>p-p</sub> , 75ohm BNC ±0.5dB
	Frequency characteristic	Composite 100K-5.5MHz Less than ±3dB
Power	Input signal	AC100-240V/DC12V
General	Power consumption	approx. 25W
	Operation temperature	10°C - 40°C
	Dimension	320x105x177mm (WxHxD)
	Weight	approx. 5kg
Accessory	AC cable	