SONY

MVS-6530

Mid-range SD / HD video switcher with 3 M/E



Overview

MVS Series SD / HD switcher with 48 inputs and 32 outputs

The MVS-6530 production switcher is ideally suited for medium-size productions. The switcher comes with sophisticated capabilities such as 3x mix effects (M/E), 4x keyers per M/E, each with the MVS high-performance chromakey, 8x keyers in P/P bank, 2x internal channels of DME, 2.5D resizers, colour correction, and more. With the standard multi-viewer output, you save space on additional monitoring, enabling a reduction in your total system cost.

Advanced control panel

The control panel incorporates an attractive black design with OLED mnemonic displays for optimal visibility. Its operation is as user-friendly and intuitive as you expect of the MVS family. The self-contained 4RU processor offers simple configuration, and is a logical choice for small production facilities that have limited installation space but refuse to compromise on quality.

Switcher Processors Option
Multi-format Switcher Processor

MKS-6550 - Format Converter Board
MKS-6570 - DME Board

Switcher Control Panel
ICP-6500 and 3000 Series

ICP-6530 - 3 M/E Control Panel (24 XPT)
ICP-6520 - 2 M/E Control Panel (24 XPT)
ICP-3000 - 2 M/E Control Panel (24 XPT)
ICP-3016 - 2M/E Control Panel (16 XPT)
ICP-6511 - Menu Panel

Remote Panel

MKS-8080 - AUX BUS Remote Panel
MKS-8082 - AUX BUS Remote Panel

Plug-in Editor

BZS-8050 - Editing Control Software
MKS-8050 - Editing Keyboard
MKS-2050 - Editing Keyboard

Device Control Unit

MKS-8700 - Device Control Unit
MKS-8701 - Tally/GPI Output Board
MKS-8702 - Serial Interface Board
MKS-2700 - Device Control Unit
HK-PSU01 - Backup Power Supply Unit

System Management Software

BZPS-8000 - System Management Software
BZPS-8000L - System Management Software (Standalone type)
BZPS-8001 - Switcher Setup Software
BZPS-8002 - PFV-SP Setup Software

Features

New control panel for convenient operability
The MVS-6530 switcher features an ICP-6530 control panel. The matt-black panel is designed for easy operation in a fixed configuration. The design is based on the proven CCP style, and experienced operators will feel instantly at home. Additionally, OLED source name displays and RGB colour source buttons are included for optimal visibility and user-friendly operation.

Creative M/E functionality
The MVS-6530 is a three mix effect (M/E) switcher with four keyers on each bus and eight keyers on the PP row. A variety of background transitions are available to suit any programme requirements and these include

Multi-program mode
Each M/E bus in the MVS system can be configured to operate in multi program mode. This facility provides four independent program outputs on each M/E. Each separate program O/P can then be configured with any combination of M/E keyers. In addition to the expanded program O/Ps, clean and key as well as M/E PVW signals are still produced.

2 resizers per M/E bank and 2.5D DME
A powerful resizer function is provided that gives simple 2.5D DMEeffects for half the keyers in the MVS-6530. With adjustable parameters such as size, position, and aspect, as well as mosaic and defocus effects, this functionality is very useful for optimizing the on screen composition.These resizers can also be activated for clip transitions, and the parameters can be memorized as part of a switcher snapshot, keyframe,or macro effect. All these effects can be created without the use of an optional DME, bringing great advantages for both simple operation and minimized system cost.

Colour correction for each input and AUX output
In order to correct for any colour errors in the incoming signals each input has a primary RGB colour corrector. In addition each aux bus output also has an identical colour corrector circuit. This is useful for correcting the colour balance on in-vision monitors.

In addition aux mix ability is included which provides a mix transition, rather than a hard cut on aux bus outputs.

Enhanced frame memory system
The MVS-6530 provides an internal high-capacity frame store with the ability to handle both individual images (stills) and animation sequences (clips) with embedded audio support . The frame memory system supports eight-channel playback from on-board RAM storage, and images can be imported via USB connection or a real time back up using an external video store. Individual frame memory images or animation sequences can be instantly viewed and recalled via the touch-screen menu operation.

Two channel multi-viewer system
The MVS-6530 provides multi-viewer outputs directly from the main processor chassis. This cuts down on the need for expensive external multi-viewers. Each multi-viewer output can be set in either 10- or 4-way split operation, and signals are delegated to each separate pane accordingly. The multi-viewer also supports switcher name and border tally indicators.

48 inputs and 32 outputs configuration
The MVS-6530 features 48 BNC primary inputs and 32 BNC assignable outputs.

Easy-to-program macros
Using the Flexi-Pad module, you can record operation sequences, then store and assign them to any desired button. Macros are useful in live environments where time is critical and operation errors are not tolerated. In addition to using macros to record complex panel operations, macros can also be used to record menu operations. Macros can be edited either directly from the control panel or with the touch-screen menu display. Once programmed, macros can be executed in several ways: by attaching to the majority of buttons on the control panel surface, recall/run from the Flexi-Pad module, or by trigger on a timeline to execute automatically in a sequence.

Networking functions
The MVS-6530 switcher can be operated with a single Ethernet-based network. This integrated LAN enables easier connection to devices.

Powerful device control
The MVS-6530 switcher has integrated device control and so does not require the use of an additional unit, simplifying system installation. Devices can be controlled on the same timeline as switcher events or as part of macro events. When integrating a Sony disk protocol or VDCP-controlled disk recorder, clip management is also provided, allowing different server clips to be recalled and played back as part of a switcher timeline or macro.

Intelligent tally functions
All MVS switchers provide an intelligent and multi-functional tally system, which seamlessly integrates the switcher and router tally functions. Multiple on-air and recording tallies can easily be programmed on the switcher system, so that even complex tally requirements are accommodated.

Clip Transition Effects
All MVS family switchers provide clip transition effects that enable transition, together with audio, using a frame memory sequence. During a clip transition, a computer-generated image, such as a logo, moves across the picture from one side to the other, while the transition is performed behind the image. This effect is useful for sports broadcasting. Although highly sophisticated, the effect can be performed with simple settings. Various types of transition such as Mix, Wipe, DME Wipe, and PresetColor Mix can be applied in a background transition according to the motion of the clip. A transition can be operated both backwards and forwards with the fader lever.

Built-in format converter
One convenient feature of MVS switchers is that a format conversion capability can be incorporated by adding an extra format converter board (MKS-6550). This option provides up-conversion and down-conversion between HD (1080i and 720p) and SD (480i and 576i), and cross-conversion between 1080i and 720p at both inputs and outputs. With these capabilities, there is no need for external format conversion. A variety of signal formats can be handled within the switcher system, which minimizes overall system cost.

The format convertor can also work in frame delay mode which provides synchronisation and up to 8 frames delay for up to eight input signals. This is useful for remote non-locked sources or for applications involving virtual studios where a compensatory delay is required.

Built-in DME processor
The MVS-6500 processor offers the option of two channels of internal digital multi-effects (DME) with installation of the MKS-6570 DME board. This switcher supports brilliant non-linear effects as well as frequently used DME patterns. For example, the following effects can be performed: Digital SPARKLE Effects*, 3D Linear Transformation, Video Modify, Freeze, Light/Trail, Input/Output Effect, Digital SKETCH, Metal, and Glow. These capabilities ensure the highly affordable MVS-6500

Series is user friendly.
* These non-linear effects are supported on a single channel.

Specifications

General	
Power Requirements	AC 100 V to 240 V, ±10%, 50/60 Hz
Power Consumption	4 A to 1.7 A (fully loaded)
Operating Temperature	5°C to 40°C 41°F to 104°F
Storage Temperature	-20°C to +55°C -4°F to +131°F
Dimensions (W x H x D) *[1]	482 x 176 x 486 mm 19 x 7 x 19 1/4 inches
Mass	Approx. 21 kg (fully loaded) Approx. 46 lb 4.8 oz (fully loaded)

Input/Output	
Maximum Number of Inputs	BNC (x48) for Primary inputs SMPTE 292M (HDTV), SMPTE 259M-C (SDTV)
Maximum Number of Outputs	BNC (x32) for Outputs SMPTE 292M (HDTV), SMPTE 259M-C (SDTV)

Reference	
Reference Input	BNC (x2), 75 Ω with loop-through output HDTV systems: HD tri-level sync/SDTV analog sync/analog black burst SDTV systems: Analog black burst/analog sync

Control	
MVS LAN	RJ-45 (x1), 1000BASE-T
UTIL (SW)	RJ-45 (x1), 1000BASE-T
UTIL (SCU)	RJ-45 (x1), 1000BASE-T
Remote 1 to 4	D-sub 9-pin (x4), RS-422A
Remote S1 to S2	D-sub 9-pin (x2), RS-422A
Tally/GPI	D-sub 25-pin (x4), TTL level inputs (x18), open collector outputs (x48)
Serial Tally	D-sub 9-pin (x1), RS-422A
S-BUS	BNC (x1), 75Ω
UTIL (FM)	RJ-45 (x1), 1000BASE-T
FM Device	USB 2.0

Supplied Accessories

Supplied Accessories	75 Ω terminator (1) User's Guide (CD-ROM (1)) Operating Instructions (1) Installation Manual (1)

Notes

Note	[*1] The values for dimensions are approximate.

Related products



MVS-3000A

Compact and flexible SD / HD video switcher

Gallery











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