

MVS-3000A

Multi Format Switcher

SONY
make.believe



ICP-3016 (16XPT)



ICP-3000 (24XPT)



ICP-6520 (24 + 3XPT)



ICP-6511

The MVS-3000A—compact, full-featured multi-format switcher

Since its introduction, the cost-effective MVS-3000 switcher has earned a great reputation in broadcast facilities, OB vehicles, educational institutions, houses of worship, and stadiums around the world. Now, the MVS-3000A adds an even more advanced feature set and a variety of panel options.

- Choice of three control panels and dedicated menu panel
- Variety of functions inherited from top-of-the-line MVS flagship models
 - 3D Non-Linear DME
 - 2.5D Key Resizer
 - AUX Mix Transition
 - Multi-viewer Outs
 - Input / Output Color Correction
 - Support for Sony's ELC Control Room Automation



MVS-3000A (2M/E, 32 in, 16 out, 8 Keyer)

Operation Panel

Multi-function Flexi Pad block

The Flexi Pad is used for creating and recalling various switching functions for easy operation.

- Macro / ShotBox direct execution
- Snapshot / Wipe Snapshot / DME-Wipe Snapshot recall
- Keyframe (Timeline) Effect building / recall
- Transition Rate setting
- Key adjustment and control



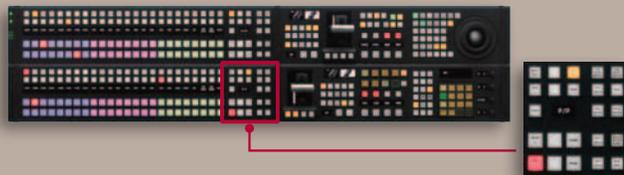
Crosspoint Block

This provides enhanced button visibility for increased operational efficiency.

- OLED Source Name display (up to 12 characters)
- RGB Crosspoint buttons
Light-emitting buttons with selectable coloring for easy grouping of sources
- Assignable Delegation buttons (Key 1-4, AUX1-16, Utility / ShotBox, Macro)



Convenient Functions of the ICP-6520 Panel



The ICP-6520 panel has dedicated buttons specifically for M/E re-entry, XPT Hold, and Aux Mix enable. This panel also has assignable buttons such as Pre Macro and Post Macro.

Dedicated Menu Panel

The menu panel provides comprehensive setup operations.



M/E Setup

Frame Memory

Timeline

Device Control Block

This provides an easy-to-use trackball for fine adjustment, and direct access buttons.

- Resizer / DME adjustment (Size, Position, Rotation, etc.)
- DDR / VTR control (Play, Stop, Jog / Shuttle, etc.)



Key Transition Block

This block provides direct access to key transition type selection, transition execution, and key snapshot recall.

- Key Cut / Auto Transition
- Key Source Name Display
- Key Transition Type
- Key Snapshot



Next Transition Block

The Next Transition Block enables extremely flexible operation for transitions, with 19 assignable buttons.

- Next Transition delegation (BKGD, Key1-4, Key Priority)
- Transition Type (WIPE, MIX, CLIP Transition, etc.)
- Transition Rate Display



Aux Bus Remote Panel (Option)

For AUX bus switching, this supports single destination switching (MKS-8080) and 16 destinations with source name display (MKS-8082). Up to 16 panels can be simply connected in cascade using standard BNC cables.



MKS-8082



MKS-8080

Variety of Useful Functions

Multi-viewer Function

This function displays multi-viewing sources including input and output sources by 4-, 10-, or 16-way split screen mode. Two channels can be output independently, enabling you to view up to 32 sources at one time. The multi-viewer can also display source name and tally. The Multi-viewer function helps you build a simple system with minimal displays, and is also a cost-effective way to create a monitor wall.



4-way split screen



10-way split screen



16-way split screen

Flexible and Intuitive CG Wipe Function

CG Wipe is becoming more popular for transitions, not only for slow-motion in sports but also for scripted shows. You can select a frame memory Clip Transition (CG Wipe) as the transition type just as easily and in the same way as selecting Mix, Wipe, and DME-Wipe.



A CG Wipe with background transition

The CG Wipe (moving image) is played back linked to a mix, cut, or wipe transition in the background. You can set the timing of both the start and stop.



Start Start Stop Stop

→ CG Wipe
→ Background Transition

Aux Mix Transition

Many of today's productions are utilizing aux outputs to feed on-set studio monitor screens and web feeds. Aux Mix allows you to perform mix transitions on these outputs, without consuming extra M/E resources.

Color Correction

The RGB Color Correction function is available for every video input and auxiliary output. In-vision studio monitors can therefore be optimized to provide faithful color reproduction when included in the camera image.



Powerful Key Resizers (2.5D x 4 Channels)

The Picture-in-Picture function (P in P) is mandatory for any news program. Also size and position adjustments are often required when creating CG effects. P-in-P is easily created by resizing and repositioning images, and both X- and Y-axis rotations are possible (2.5D). Even Defocus and Mosaic effects are available.



2D : without rotation



2.5D : with rotation

Powerful 3D DME with Non-linear Effect (Option)

To make your program more attractive, the Digital Multi Effect (DME) function offers a creative solution. Sony's DME provides popular non-linear effects and easy operation via the intuitive menu system, and control panel trackball section. Two channels are available for 3D DME effects, while one of the two channels is used for non-linear type effects.

Digital SPARKLE Effects



Page Turn



Corner Pinning



Side Flags

Many operators still handle HD and SD materials at the same time. The internal Format Converter function and Side Flags function assist operators with these materials. The Side Flags function allows an up-converted 4:3 SD image to automatically form a 16:9 HD image by adding desired graphics to both sides of the 4:3 image without using any of the system's key resources.



Side Flags

Key Features

Number of ME	2
Number of In / Out	32 inputs and 16 free assignable outputs
Number of AUX bus	Up to 16
Number of keyer	8
Number of XPT table	15 tables for BKGD, Key, and AUX
Source name display	OLED, Up to 12 characters
BKGD transition	Cut, Mix, Wipe, DME, FM Clip, NAM, Super mix, Color mix
Key transition	Cut, Mix, Wipe, DME, NAM, Super mix, Color mix, Key priority
AUX transition	Cut, Mix
Chromakey	8
Key modifier	Edge (Border, Shadow, Emboss, etc), Mask
Side flags	Yes
Frame memory	8ch, about 1000 HD frames
Frame memory backup	External USB device or internal SSD
Multi viewer	2ch (up to 32 windows)
3D / Nonlinear effect	2 ch*1
2.5D resizer	4ch
Input color correcter	All inputs
Output color correcter	AUX outputs
Macro	250
Keyframe, Snapshot, ShotBox	99 each
Key snapshot	4 per keyer
Format converter	8 In 0 Out or 4 In 2 Out*2
Device control protocol	VDCP, Sony 9-pin VTR protocol, Sony Disc Protocol, ESAM II, P-BUS, GPI
Serial tally	Yes
Tally / GPO, GPI	48, 16
Redundancy power supply	Both for panel and processor
Others	Router Interface (S-Bus), Plug-In Editor interface ELC Automation Interface

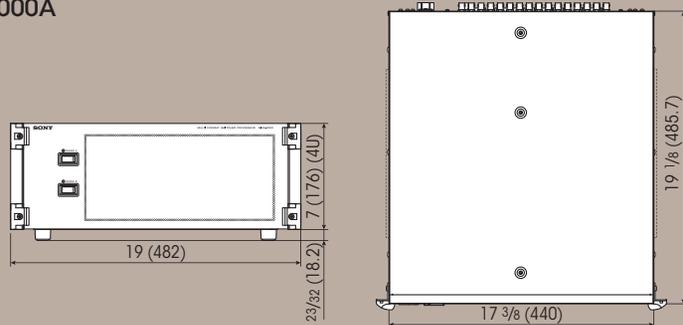
*1 Optional MKS-6570 Board is required. Non-linear effect is available with one DME channel.

*2 Optional MKS-6550 Board is required.

Dimensions

Units: inches (mm)

MVS-3000A



Specifications

MVS-3000A	
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	41°F to 104°F (5°C to 40°C)
Dimensions (W x H x D)	19 x 7 x 19 1/8 inches (482 x 176 x 485.7 mm)
Weight	Approx. 41 lb 14 oz (19 kg) (fully loaded)
Video	
Signal format	SMPTE 292M (HDTV), SMPTE 259M-C (SDTV) 1080/59.94i, 1080/50i, 1080/23.978PsF, 720/59.94p, 720/50p, 480/59.94i, 576/50i
Signal processing	4 : 2 : 2 digital component
Quantization	HD / SD-SDI : 10-bit
Inputs	BNC (x32) for primary inputs
Outputs	BNC (x16) (Assignable outputs (x12), Selectable outputs (x4) for Multiviewer, Format converter or Duplicate outputs)
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), 75 Ω
UTIL (FM)	RJ-45 (x1), 1000BASE-T
FM device	USB 2.0
Supplied accessories	
	75-ohm terminator (1), User's guide (CD-ROM (1)), Operating instructions (1), Installation manual (1)

Control panel	ICP-3016	ICP-3000	ICP-6520
General			
Power requirements	AC 100 V to 240 V, ±10%, 50/60 Hz		
Power consumption	0.95 A to 0.6 A (fully loaded)		
Operating temperature	41°F to 104°F (5°C to 40°C)		
Dimensions (W x H x D)	26 7/32 x 4 3/4 x 15 5/8 inches (666 x 120 x 396 mm)	32 3/8 x 4 3/4 x 15 5/8 inches (821 x 120 x 396 mm)	45 1/2 x 4 3/4 x 10 1/2 inches (1154 x 120 x 264 mm)
Weight	Approx. 26 lb 7 oz (Approx. 12 kg)	Approx. 30 lb 14 oz (Approx. 14 kg)	Approx. 30 lb 14 oz (Approx. 14 kg)
Control			
MVS LAN	RJ-45 (x1), 1000BASE-T		
UTIL LAN	RJ-45 (x1), 1000BASE-T		
USB	USB 2.0 (type-A x4)		
External display	DVI-D OUT (x1) (SVGA 600 x 800 only)		
Supplied accessories			
	Button top puller (1), Key top label, Operating instructions (1), Installation manual (1)		
Optional accessories			
Format converter board	MKS-6550		
DME Board	MKS-6570		

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V-2587 (MK11074V1)

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Printed in USA (11/13)