

MVS-8000G Series

Multi-Format Video Switcher



Integrated Multiformat Production Switcher



The MVS-8000G series production switcher offers content producers previously unseen levels of performance, flexibility and integration. This multi-format production switcher builds on the success of the MVS-8000A and DVS-9000 systems and gives operators unrivalled multi-format performance for a production switcher.

New features for the MVS-8000G series include a built in simple DME on every keyer and optional internal format converters. The MVS-8000G is the latest evolution of the highly successful MVS-8000 family. As such it includes all the software features currently available on the MVS-8000A. Also being part of this family enables it to be compatible with all existing control surfaces.

The MVS-8000G comes in two chassis sizes and can support up to 4 M/E operation with a simple PP bus (1/2 M/E) also available. The processors can accept up to 80 primary inputs and provide up to 56 assignable outputs. In addition to the Key DMEs a maximum of 8 fully integrated, full function DME's can also be specified. This combined with the optional eight channel frame memory system gives operators unsurpassed processing power for live production applications.

Features

Flexible system size

MVS-8000G systems are available with 1, 1.5, 2, 2.5, 3, 3.5 or 4 M/E's banks and two processor frame sizes are available. The smaller MVS-8000GSF (4RU) frame can cope with up to 2.5 M/E's, 34 I/P's and 24 O/P's and the larger MVS-8000SF (8RU) frame will cope

with up to 4 M/E's, 80 I/P's and 56 O/P's. A system can therefore be purchased with minimal components today and expanded as needs arise.

4 Keyers per M/E

Each M/E comes, as standard, with 4 full function keyers, each with its own transition capability. Luminance, Linear, Clean, Pattern, Chroma and Colour Vector keying modes are supported as standard by each keyer. Additionally the MVS-8000G series includes a simple DME channel for every keyer.

8 Channel Integrated DME

In addition to the standard Key DMEs, an optional, high specification, digital multi effects (DME) unit is available to partner the MVS-8000G and up to 8 channels can be specified. Each channel is a full function DME including 2D linear and non-linear effects with a key channel and lighting effects. The MVE-8000A is a 2RU processor and can be fitted with either 2 or 4 channels of high quality digital effects generators.

For even more stunning effects and higher picture quality the MVE-9000 is also available.

Internal format converters

The MVS-8000G chassis can be fitted with two format converter cards. Each card is capable of converting up to eight video I/Ps from one line standard to another. The card also provides 2 channels of O/P conversion which gives the ability to convert any switcher O/P from one standard to another.

Frame Memory

The MVS-8000G has the option of being supplied with 8 channels of frame memory. The frame memory system has the capacity to store up to 2000 HD images and both still frames and clip sequences can be stored and recalled. By utilising an external hard drive clips can quickly be backed up and uploaded ready for the programme operations.

Compact Control Panel

In addition to the layout-free control panel two compact control panels are available. These two panels (1 or 2 M/E) offer the same operational features as the large panel in a much smaller, and rack mountable, size. These, 12 crosspoint button, panels are ideal for

small production systems or, if combined with the large panel, providing remote M/E operation.

Macro Functionality

To further aide an operator the control panel allows complex key sequences to be stored, subsequently edited and then recalled from any button. Simple (or complex) key sequences can now be programmed to happen upon any button push (for example switching key and background at the same time, automatically flying in a replay on selecting the source button...) the possibilities are only limited by the operators' creativeness.

Machine Interface

Up to twelve VTR or DDR's can be controlled by a single control panel. These can be integrated onto a switcher timeline and multiple cue up points can be set. A dedicated VTR control module can also be added to any control desk allowing an operator instant and easy remote control of any connected VTR.

Networkability

The control panels and switcher processors are connected via two independent ethernet networks. These together with the additional system manager application allow the switcher to expand onto an external LAN. This can be used for remote set-up and monitoring, facility management and import/export to the internal stills store.

Benefits

Large scale productions

With four full function keyers, as standard, in each M/E you should never run out of keying possibilities. This combined with the maximum of 80 I/P's makes this system able to cope with the most demanding of applications. What's more even when fully equipped with up to 8 channels of full function integrated DME, each with a video and key channel, you still have all 80 I/P's available for cameras, VTR's etc.

Multi-format operation

The MVS-8000G is a true multi-format switcher and can operate in any of the current world broadcast standards. In the future the switcher will also support 1080P/50, /60 productions as well (dual link operation).

Flexible format conversion

The MVS-8000G is capable of being supplied with internal format converters which allow you to integrate

your SD production equipment into an HD programme. What's more not only can you up-convert the SD I/Ps, by utilising the internal down converters and independent aspect ratio operation you can also simultaneously produce a 16:9 HD and 4:3 SD production from the single processor chassis without the need for any external conversion equipment.

The internal format converters will also act as cross converters to and from 720P as well as down converters to mix HD material into an SD programme.

Key manipulation

As standard each keyer on the MVS-8000G is supplied with a simple DME system. This allows you to create picture in picture effects with basic picture manipulation abilities (including blur effects) without tying up any external DME channels. It is also possible to utilise these key DMEs for DME key transitions.

Multi Programme Delivery

Each M/E bus is capable of working in multi-program mode where up to four configurable O/P's are available per M/E. This coupled with automatic key substitution and switchable 4:3 / 16:9 operation per M/E bank gives you the capacity to provide many different programme streams from a single switcher system. For even more demanding applications, and with the purchase of additional software, you can split each ME bus to make two separate and independent PGMs. This gives a total of 8ME operation from the single processor.

Customisable control panel layout

The control panel of the MVS-8000G is unique in offering operators the ability to change the layout as required. Once installed the panel layout can be simply modified, or additional facilities added as needs arise.

Maximising system usage

With the availability of the system manager software (BZPS-8000) the MVS-8000G system flexibility is increased one stage further. This software package allows for remote control of all switcher functions, an interface for remote maintenance and an off-line setup facility.

By integrating system manager with a number of studios allows an engineering manager to create a central file storage area and download the relevant files on a programme by programme basis. Thus a set-up for one studio is instantaneously available to all connected switcher systems. This greatly decreases the amount of valuable studio time required to set up the switcher prior to the next programme.