

# Panasonic

ideas for life

# AV-HS410

Live Switcher

Preliminary



**3D**  
PROFESSIONAL

(Optional 3D SDI Output board: AV-HS04M7D)

## High-End Performance and Functions in a Compact, Integrated Body Expandable 1ME Switcher with Enhanced User Interface, Stereo 3D Compatibility and SDK Offer

The AV-HS410 is an HD/SD selectable 1ME Switcher that rivals many high-end switchers by incorporating a host of inputs and outputs, effects and system expandability into its compact, 19 type, half-rack size. It comes standard with 9 inputs and can increase a maximum capacity of 13 inputs when optional boards are mounted. It provides versatile effects, including transitions with digital video effects and Primatte® chroma keying. Its 177.8 mm (7 inches) color LCD monitor improves operability by an easy-to-see setting screen, new video memory, Memory Preview, enhanced MultiViewer functions, and a button layout that is designed to simplify live relay operation. Addition of an optional board allows stereoscopic 3D image switching and 3D shooting assist.\* Open SDK supports the expansion of plug in software-based functions.

\*Stereoscopic 3D functions are scheduled for release in February 2012. The AV-HS04M7D Option Board and a version update are required for using 3D functions.

# AV-HS410 Live Switcher

## HD/SD Multi-Format with 9 Inputs Standard, 13 Inputs Maximum

- HD/SD multi-format support, including 1080/24PsF. System frequency: 60 Hz/50 Hz/24 Hz switchable.
- Standard inputs: 8 SDI (HD/SD) and 1 DVI-D. Standard outputs: 5 SDI (HD/SD) and 1 DVI-D.
- Two optional board slots. Usable for input and/or output, allowing expansion to a maximum of 13 inputs or 10 outputs.
- All input channels feature frame synchronizer.
- Equipped with 4 up-converter channels, 8 dot by dot channels, and 8 video processing channels.
- Features 4 Aux buses. Aux 1 is equipped with a Mix transition function. Flexible operation is enabled by combining Aux buses and M/E sections.

## New Memory Functions and Versatile, High-Quality Effects

- Versatile effect functions. In addition to standard wipe, mix and cut effects, DVE functions, such as reduce, slide, squeeze and 3D wipe are provided.
- Real-time, high-quality chroma keying with the Primatte® algorithm.
- Shot memory and event memory.
- The new Video Memory function allows recording and playback of 2 inputs for still or moving pictures with key signals.
- The new Memory Preview function improves live relays by providing previews of shot memory and event memory image effects.
- An SDHC Memory Card can be used to upload and write still or moving picture data, and to save switcher setting data.

\* Primatte® is a registered trademark of IMAGICA DIGIX Inc. The copyrights of Primatte® belong to IMAGICA DIGIX Inc. The patents for Primatte® also belong to IMAGICA DIGIX Inc.

## Compact, Integrated Design Enhances and Advanced Live Relay Operation

- The compact, 19 type rack size is achieved by integrating the control panel and processor unit.
- Built-in 177.8 mm (7 inches) color LCD monitor with WVGA (800 x 480) display. Enables display of menus, input/output images, waveforms and MultiViewer functions.
- Enhanced MultiViewer display enables 4/5/6/9/10/16 split screens, clock display, audio level meter display, and 4:3 marker display.
- The simple panel layout allows direct control of numerous functions.
- 12 crosspoint buttons in each A bus and B bus (maximum of 22 with the Shift function).
- Various functions can be assigned to 8 user buttons.
- Provision of a Software Development Kit (SDK) allow flexible expansion of software-based functions.

## Real 3D Image Switching is Supported

- Mounting the AV-HS04M7D Optional Board enables standard switching of 4 stereoscopic 3D images (L/R pairs), and a maximum of 5.
- L/R mixed output. Three modes (LRMIXa, LRMIXb, and LRDifff) allow easy checking of stereoscopic 3D image parallax.
- Primatte® chroma key composition with of stereoscopic 3D images (L/R pairs).
- Mirror display (vertical/horizontal reversal) and positioning correction of each channel helps to compensate rig-type 3D shooting.
- 3D live relay and 3D production are supported by status monitor display (luminance, RGB distribution, LR difference, and grid) of 3D image signals.

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Factories of Business Solutions Business Group have received ISO14001:2004-the Environmental Management System certification. (Except for 3rd party's peripherals.)