



Roland V-800HD MK II

ProdCode: ROLV800HDMK2

Multi Format 16 Input Video Switcher



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Features

- Multi Format 16 Input Video Switcher
- 16 inputs, 10 Cross points
(4 SDI/Composite/RGB + 4 DVI-I/HDMI)
- 6 outputs (2 SDI + 2 DVI + RGB + Composite) Simultaneous output
- Dedicated multi-view monitor output
- High quality 4:4:4/10 bit processing
- 1080p/i, WUXGA processing
- 1 M/E (KEY, PinP) + AUX or DSK
- Frame Sync & Scaler on all inputs and outputs
- 3G, HD, SD 3-mode SDI
- (3G-SDI Level A/B compatible)
- DVI-D/RGB/HDMI compatible
- Input signal status confirmation LEDs
- HDCP Compatible
- Two active still images from sixteen still memories
- Ten assignable cross points
- AUX bus switch

UPDATED VERSION OF THE INDUSTRY STANDARD MULTI-FORMAT VIDEO SWITCHER

A refreshed interface for improved workflow with the versatile multi-format V-800HD video switcher. Newly added AUX bus delegation layer switches enhance both visibility and operability.

STELLAR IMAGE QUALITY AT 1080P (3G-SDI)

Supports 1080p video signals at bit rates as high as 3 Gbps — twice the rate of conventional HD.

Asserts all the vividness of high-realism, high-detail camera and computer sources.

TRUE MULTI-FORMAT PERFORMANCE

There's no need to convert the input source to match the video output format. The built-in scalers up-convert and down-convert any video source to the optimal resolution.

FULL RANGE OF CONNECTIVITY

The V-800HD MK II supports a large number of input formats, from analogue to digital, with all the necessary connectors. The SDI connectors accommodate 3G, HD, and SD. The DVI-I connectors pull full duty for DVI-D, DVI-A and even HDMI using a simple HDMI/DVI adapter. The Mini D-Sub 15 pin type connector accommodates SD/HD component as well as computer input via RGB.

EQUIPPED WITH AUX BUS SWITCH

Easily switch sources connected to the assignable AUX outputs with the dedicated AUX layer switches. This is ideal for selecting which source is sent to a confidence monitor or secondary destination.

4:4:4/10-BIT INTERNAL PROCESSING

The V-800HD MK II uses 4:4:4/10-bit internal signal processing. This lets you achieve compositing and output with no reduction in high-detail RGB signals driven from a computer. The result is a sharp, unblurred display of video and text, even on large screens and LED displays. The V-800HD MK II delivers high image quality for all uses, from live broadcasts to event displays.

NEWLY DEVELOPED KEY-COMPOSITING ENGINE

Along with the upgraded internal signal processing, a newly developed keyer is included. Chroma Key lets you adjust phase range, amount of chroma, and other parameters based on HSV colour space that is closely related to human chromatic sensation. This allows you to achieve high quality and tight chroma key compositing even when using 1080p video sources. What's more, the V-800HD MK II can accept an External Key. This attractively composites colourful CG titles and gradation/transparency clips, enabling you to achieve visual effects that are even more impressive.

MULTIVIEWER OUTPUT FOR SOURCE MONITORING

The multiviewer output allows you to monitor the status of all input sources plus the Program and Preview outputs. The convenient HDMI connector enables the use of a readily available and affordable monitor.

- * Use an HDMI monitor that supports HDCP and 60p signals.
- * SDI and composite inputs are displayed at the original source frame rate.
- DVI-I/HDMI and RGB/Component inputs are displayed using a reduced frame rate.
- * Changing the channel cross-point assignments changes the order of displayed sources.
- * Still images imported from USB memory are not displayed on the source monitor.

BUILT-IN HDCP MODE

When playing back a Blu-ray disc that contains commercial content or digital broadcast programming, the digital output is encoded using HDCP (High-bandwidth Digital Content Protection), which is one means of copyright protection. This means that switchers that are not HDCP-compatible will not display or pass-through such video content, even in cases where permission for use in a live event was obtained from the copyright holder. To resolve this problem, the V-800HD MK II features a dedicated mode that officially supports HDCP. A panel indicator lets you check the operating state when the unit is in the HDCP mode.

- * In HDCP mode, no video signals are output from the analogue or SDI connectors.
- * The display or projector connected to a digital output must be HDCP-compatible as well.

MULTI-ZOOM

Using the shared input function, you can assign the video on channel 1 to channels 2 through 4 and the video on channel 5 to channels 6 through 8. The scaler for each input can zoom into any position in the video image enabling a virtual multi-camera environment. This gives the appearance that you have additional cameras connected.

MIDI CONTROL

You can use MIDI to interlink the V-800HD MK II with other products including the Roland V-Mixing system and even another V-800HD MK II.

Connect the V-800HD MK II to a V-Mixer console to achieve a true "audio follows video" solution. When you take a video source live, you can have the audio level instantly recalled.

Operating two V-800HD MK II units in tandem makes it possible to perform switching for 3D video split into two left and right video signals.

