V-02HD | MULTI-FORMAT VIDEO MIXER

VIDEO COMPOSITIONS
Select between Mix and Wipe patterns. Introduce a PinP or a Keyer using the selector switch.

OUTPUT FADE
Fade the Video Output to white or black and fade the Audio correspondingly. Switch to the Still Image.



APPLYING AND ADJUSTING THE VIDEO EFFECTS

SWITCHING/ COMPOSITING VIDEO BUTTONS, VIDEO FADER
Switch (manually or automatically) between the video INPUT 1 and 2, and send them to the program output.

PROGRAM OUT
MAIN video output

PREVIEW OUT
The preview output displays the standby video signal and the On-screen Menu



HDMI INPUTS
2 High quality HDMI inputs with Scalers.

USB PORT
Connect the USB cable to an iPad for remote control. The V-02HD iPad Remote Control App is free of charge and downloadable from the Apple AppStore.

CTL/EXP JACK
Connect an expression pedal (sold separately: EV-5, etc.) or footswitch (sold separately: BOSS FS-6, etc.).

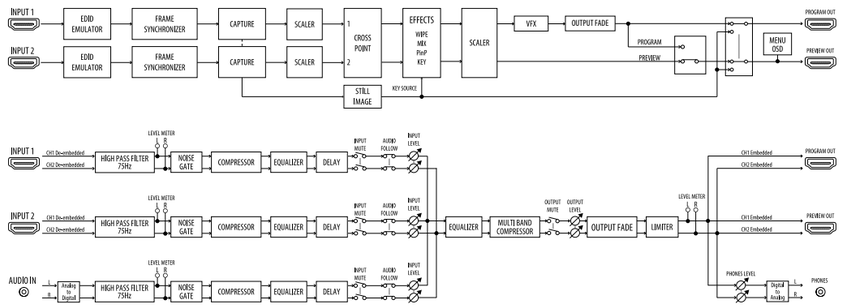
Switcher, Scaler, Expander with Audio Processing and Video Effects

- 2 in / 2 out Multi-Format Video Mixer
- Professional Transition and Composition FX including KEY and PinP
- Input / Output Scalers and EDID Emulator
- 10-bit 4:4:4 Quality Processing
- 14 onboard Visual FX including Mosaic FX
- Still Image Store
- Advanced Audio Processing DSP
- Audio Embed/De-Embed
- Switch between cameras via a connected footswitch (sold separately)
- Preset Memory (8 types)
- Dedicated V-02HD remote control app for iPad

BLOCK DIAGRAM

AUDIO

VIDEO



DUAL CAMERA / SINGLE OPERATOR PRODUCTIONS

The V-02HD takes the HDMI output from two cameras and seamlessly switches to a connected recorder or livestreaming encoder. The operator can then switch between cameras using the dedicated controls or even by using their feet, via a connected footswitch that lets them continue operating their camera. Audio from both cameras and external sources can be mixed together within the V-02HD and monitored through a dedicated headphone output. Finally, the resulting mix is embedded with the video switch and output over HDMI.







SIMPLE, SEAMLESS SWITCHING

Switching sources in a small presentation can be a pain, whether it's signal loss to the main display or the computer's inability to handle unexpected input signals. The V-02HD ensures a professional cross-dissolve switchover between computers and screens, maintaining hi-res 'pixel-accurate' display resolution with deep 10-bit 4:4:4 color space. With simple two-button operation, anyone can pull off professional switching of multiple sources, even if using the V-02HD for the first time.

SPECIFICATIONS V-02HD

VIDEO	
Video Processing	4:4:4 (Y/Pb/Pr), 10-bit
Input Connectors	INPUT 1--2: HDMI type A x 2 * HDCP Supported * Multi-format Supported
Output Connectors	PROGRAM OUT: HDMI type A PREVIEW OUT: HDMI type A * HDCP Supported * Multi-format Supported
Input formats	480/59.94i, 576/50i, 480/59.94p, 576/50p, 720/59.94p, 720/50p, 1080/59.94i, 1080/50i, 1080/59.94p, 1080/50p VGA (640 x 480/60 Hz), SVGA (800 x 600/60 Hz), XGA (1024 x 768/60 Hz) WXGA (1280 x 800/60 Hz), FWXGA (1366 x 768/60 Hz) SXGA (1280 x 1024/60 Hz), SXGA+ (1400 x 1050/60 Hz) UXGA (1600 x 1200/60 Hz), WUXGA (1920 x 1200/60 Hz) * The refresh rate is the maximum value of each resolution. * Conforms to CEA-861-E, VESA DMT Version 1.0 Revision 11. * 1920 x 1200/60 Hz: Reduced blanking * The video signal frame rate can be selected at the SYSTEM menu (59.94 Hz or 50 Hz).
Output formats	480/59.94p, 576/50p, 720/59.94p, 720/50p, 1080/59.94i, 1080/50i 1080/59.94p, 1080/50p SVGA (800 x 600/60 Hz), XGA (1024 x 768/60 Hz) WXGA (1280 x 800/60 Hz), FWXGA (1366 x 768/60 Hz) SXGA (1280 x 1024/60 Hz), SXGA+ (1400 x 1050/60 Hz) UXGA (1600 x 1200/60 Hz), WUXGA (1920 x 1200/60 Hz) * Conforms to VESA DMT Version 1.0 Revision 11. * The output refresh rates of 800 x 600--1400 x 1050 are 75 Hz when the unit's frame rate setting is 50 Hz. * 1920 x 1200/60 Hz: Reduced blanking
Video Effects	Transition: CUT, MIX (DISSOLVE), WIPE (9 types) Composition: PinP (SQUARE, CIRCLE, DIAMOND), KEY (Luminance Key, Chroma Key) Visual Effects (14 types): MOZAIC, WAVE, RGB REPLACE, COLORPASS, NEGATIVE, COLORIZE, POSTERIZE, SILHOUETTE, EMBOSS, FINDEDGE, MONOCOLOR, HUE OFFSET, SATURATION OFFSET, VALUE OFFSET Others: Flip horizontal, Flip vertical, Still Image Capture, Still Image Playback, Output fade (Audio, Video: WHITE or BLACK), Test pattern output

AUDIO	
Audio Processing	Sampling rate: 24 bits/48 kHz
Audio formats	Linear PCM, 24 bits/48 kHz, 2ch
Input Connectors	INPUT 1--2: HDMI Type A x 2 AUDIO IN: Stereo miniature type
Output Connectors	PROGRAM OUT: HDMI type A PREVIEW OUT: HDMI type A PHONES: Stereo miniature type
Input Level	AUDIO IN: -10 dBu (Maximum: +8 dBu)
Input Impedance	AUDIO IN: 45 k ohms
Output Level	PHONES: 92 mW + 92 mW (32 ohms)
Output Impedance	PHONES: 10 ohms
Audio Effects	Delay, High pass filter, Compressor, Noise gate, Equalizer, Multi-band compressor, Limiter, Test tone output

OTHERS	
Other Connectors	USB MEMORY: USB B Type (for backup from PC) CTL/EXP:1/4-inch TRS phone type
Other Functions	Preset Memory (8 types) Panel lock function EDID Emulator Auto Scan Auto Input Detect
Power Supply	AC Adaptor
Current Draw	1.1 A
Power Consumption	10.0 W
Operating Temp.	+0 to +40 degrees Celsius +32 to +104 degrees Fahrenheit
Dimensions	160 (W) x 108 (D) x 51 (H) mm 6-5/16 (W) x 4-1/4 (D) x 2-1/16 (H) inches
Weight (excluding AC adaptor)	0.6 kg, 1 lbs 6 oz
Accessories	Startup Guide, AC adaptor, Power cord, Cord hook
Options (sold separately)	Footswitch: BOSS FS-5U, FS-6, FS-7 Expression Pedal: EV-5, BOSS FV-500L, FV-500H

* 0 dBu=0.775 Vrms