

# 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



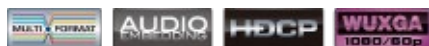
**HDMI INPUTS**  
2 High quality HDMI inputs with Scalers.

**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.).

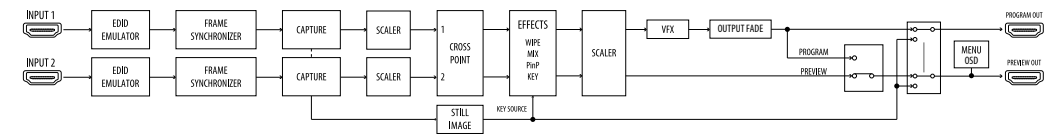
## Switcher, Scaler, Expander with Audio Processing and Video Effects

- 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

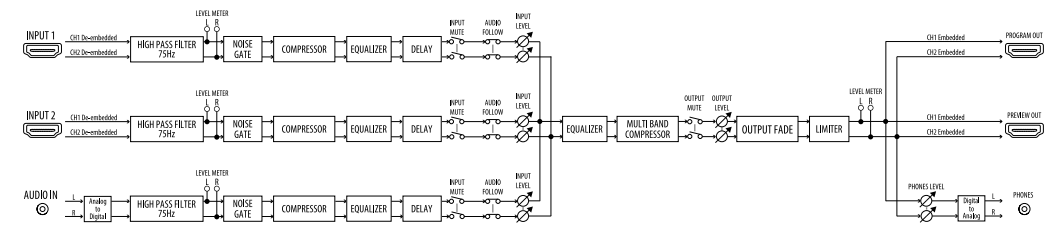


## BLOCK DIAGRAM

### AUDIO

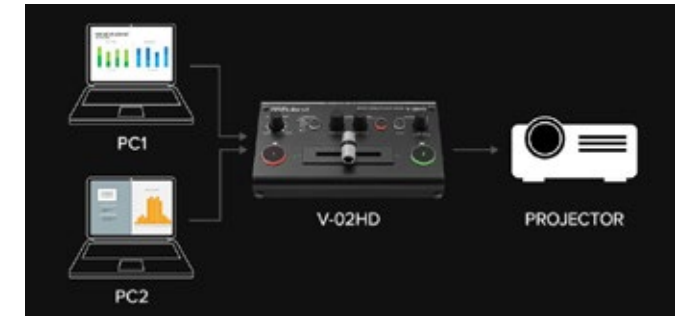


### VIDEO



## 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): MOZAIK, 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