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elvid VSW-4H-USB 4-Input HDMI Switcher with USB Output User Guide

Contents

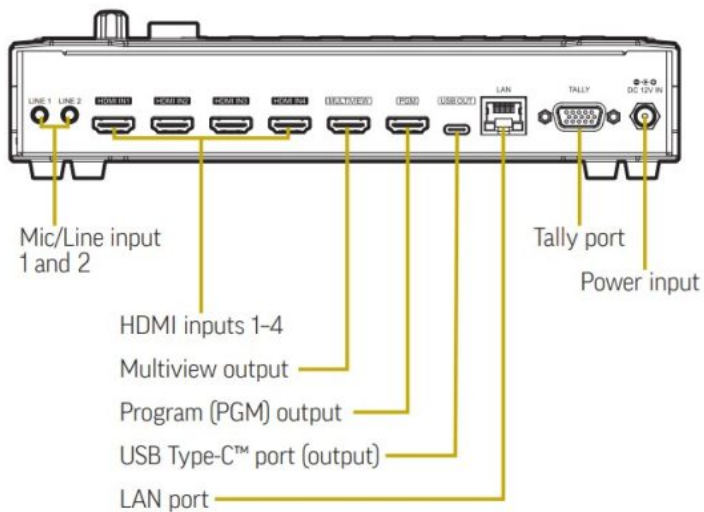# elvid VSW-4H-USB 4-Input HDMI Switcher with USB Output User Guide

THANK YOU FOR CHOOSING ELVID.

The Elvid VSW-4H-USB Broadcast Video Switcher is a powerful yet compact unit that puts advanced switching and professional video effects at your fingertips. Great for livestreaming and broadcast applications, this switcher will boost the production value of any multicamera presentation, concert, panel discussion, or interview.

The VSW-4H-USB features four HDMI inputs that support up to full HD 1080p video, and a USB input to upload your graphics, logos, and artwork to the switcher's media library. Two configurable mic/stereo line inputs can add live narration or music to the production. Perform creative transitions, mix audio, and use the pattern generator and extensive pattern library to set up downstream and upstream keyers, all from the intuitive control panel. Flexible output options let you place a multiview screen in your control room or at your workstation and a second monitor that displays the live broadcast or any one of the incoming video sources. The switcher's built-in encoder automatically scales and deinterlaces incoming video signals and outputs video to user-selected resolutions up to 1080p. The live broadcast can be outputted to a broadcast device, projector, or recorder, and simultaneously streamed to the internet via the USB output.
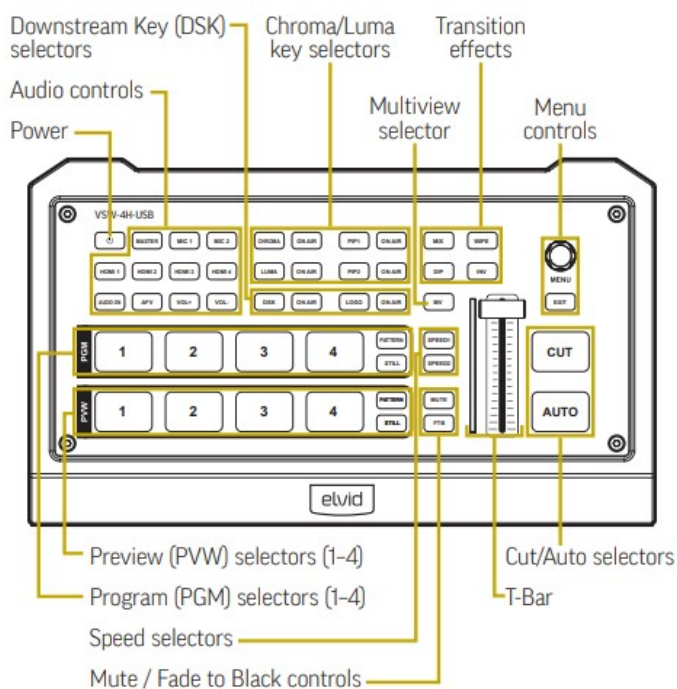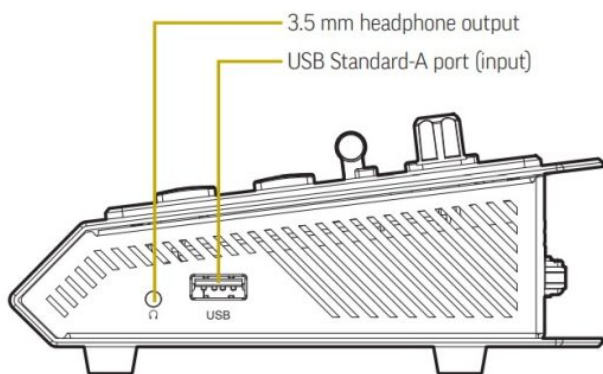
- Please read and follow these instructions, and keep this manual in a safe place.
- Keep this product away from water and any flammable gases or liquids.
- Do not expose this product to humidity or extreme heat or cold.
- Make sure this product is powered off when plugging it into a power source.
- Use only the correct, recommended voltage.
- Do not attempt to disassemble or repair this product—doing so will void the warranty, and Elvid will not be responsible for any damage.
- Handle this product with care. Avoid any impacts to this product.
- Do not block the vents in this product.
- Disconnect this product from its power source before storage and during electrical storms.
- Do not use chemical solutions to clean this product. Clean it with only a soft, dry cloth.
- Make sure that this product is intact and that there are no missing parts.
- All images are for illustrative purposes only.

OVERVIEW

Mic/Line input 1 and 2

HDMI inputs 1–4

Multiview output

Program (PGM) output

USB Type-C™ port (output)

LAN port

Tally port

Power input

CONTENTS INCLUDE

- Power supply (12 V, 2 A)
- USB cable (USB Standard-A to Type-C)
- Tally connector (DE-15)

3.5 mm headphone output

USB Standard-A port (input)

Downstream Key (DSK) selectors

Audio controls

Power

Chroma/Luma key selectors

Multiview selector

Transition effects

Menu controls

Preview (PVW) selectors (1–4)

Program (PGM) selectors (1–4)

Speed selectors

Mute / Fade to Black controls

Cut/Auto selectors

T-Bar

1. Make source and output device connections.

2. Plug the power cord into the switcher and tighten the locking ring until secure. Plug the power adapter into an outlet.
3. Press the Power button to turn on the switcher.

To turn off:

1. Press and hold the Power button for 3 seconds.
2. Turn the Menu knob to select YES in the onscreen prompt, then press the knob to select. The switcher will power down after 3 seconds.

CONNECTING THE INPUTS

VIDEO SOURCES

Plug HDMI cameras and other HDMI sources into the switcher's HDMI inputs 1–4.
Each of the HDMI windows will display the video signals when viewing in the Multiview screen.

COMPUTER CONNECTIONS

Computers can be connected to the switcher via an HDMI cable or with an appropriate adapter.
Note: When connecting a computer to one of the HDMI inputs, you may need to set the computer display setting to mirror the primary screen.

AUDIO CONNECTIONS

Connect microphones, an audio player, smartphone, or a wireless receiver to the switcher's audio inputs with a 3.5 mm TRS audio cable.
The audio input accepts stereo unbalanced microphone and line-level signals. To set the inputs to receive a mic- or line-level signal, see the online user manual at elvidcinema.com.

CONNECTING THE OUTPUTS

The switcher has a USB and two HDMI outputs. The HDMI outputs can be connected to monitors, a projector, or broadcast device.
The USB output lets your computer simultaneously monitor the Multiview, Program (PGM), or a user-selected signal, and stream it to the internet.
Both HDMI and USB ports can be configured to output HDMI 1–4, PGM, Clean PGM, Preview (PVW), Color Bar, or Multiview screens.

MULTIVIEW OUTPUT

The Multiview output displays seven windows onscreen: HDMI 1–4, Preview (PVW), Program (PGM), and Status/Menu.
Use the MV button to force the Multiview output to display the default Multiview layout.

PROGRAM (PGM) OUTPUT

The PGM output displays the final output that's sent to the recorder or broadcast device. This signal is what your audience will see.

USB OUTPUT

Use the included USB cable to connect the switcher to a computer. The computer can be used as a monitor or to stream video to the internet.

Scan to download a PDF of the complete user manual, or visit elvidcinema.com/get/manual/VSW-4H-USB

SPECIFICATIONS

INPUT/OUTPUT

Video Input	HDMI Type-A (×4)
Audio Input	MIC/Line 3.5 mm TRS female (×2)
Video Output Connectors	HDMI Type A (PGM) HDMI Type A (Multiview) USB 2.0 Type-C ×1 (Streaming on PC) Assignable HDMI 1 to 4 (PGM, Clean PGM, PVW, Color bar, Multiview)
Monitor Output	Headphone 3.5 mm TRS female

Other I/O	Tally: DE-15 USB Standard-A (for image import and firmware upgrade)
PC Control Port	Ethernet

VIDEO & AUDIO

Video Input Formats	1080p: 60/59.94/50/30/29.97/25/24/ 23.98 1080i: 50/59.94/60 720p: 60/59.94 /50/30/25/24 576i: 50 576p: 50 480p: 59.94/60 480i: 59.94/60
Video Output Formats	1080p: 60/59.94/50/48/47.95/30/29.97/ 25/24/23.98 1080i: 60/59.94/50

Video Sampling	4:2:2
Color Precision	8 bit
Color Space	YUV
Color Space Conversion	Will convert RGB to YUV 4:2:2
Embedded Audio	2-channel (per output)
Audio Mixer	HDMI (×4) Mic/Line level (×2) Audio delay: 0-500 ms
Media Player	None

Still Image Capacity	Default image: 49 preset patterns Local image: Up to 16 imported images Capture image: Up to 16 captured images
Image Format Support	PNG, BMP, JPG, GIF, JPEG, PPM, PBM, TIF, JPS, MPO, TGA
Logo Format Support	PNG, BMP, JPG, GIF, JPEG, PPM, PBM, TIF, JPS, MPO, TGA
Logo Size Support	10 × 10 to 600 × 600 pixel

GENERAL

Keyers	Upstream: Luma Key, Chroma Key, PIP (×2), POP Downstream: DSK, Logo
Generators	Pattern generator Color generator (×2)
Number of Windows	6 and status (2 styles of Multiview layout)

Operating System Support	MacOS and Windows
Power Input	120 to 240 V, 50/60 Hz
Voltage	12 V
Power Draw	12 W
Operating Temperature	-4°F to 140°F (-20°C to 60°C)
Storage Temperature	-22°F to 158°F (-30°C to 70°C)
Dimensions	9.6 × 5.6 × 1.8 in. (24.5 × 14.3 × 4.5 cm)
Weight	2.3 lb. (1030 g)

ONE-YEAR LIMITED WARRANTY

This Elvid product is warranted to the original purchaser to be free from defects in materials and workmanship

under normal consumer use for a period of one (1) year from the original purchase date or thirty (30) days after replacement, whichever occurs later. The warranty provider's
responsibility with respect to this limited warranty shall be limited solely to repair or replacement, at the provider's discretion, of any product
that fails during normal use of this product in its intended manner and in its intended environment. Inoperability of the product or part(s) shall be determined by the warranty provider. If the product has been
discontinued, the warranty provider reserves the right to replace it with a model of equivalent quality and function. This warranty does not cover damage or defect caused by misuse, neglect, accident, alteration, abuse, improper installation or maintenance. EXCEPT AS PROVIDED HEREIN, THE WARRANTY PROVIDER MAKES

NEITHER ANY EXPRESS WARRANTIES NOR ANY IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This warranty provides you with specific legal rights, and you may also have additional rights that vary from state to state.
To obtain warranty coverage, contact the Elvid Customer Service Department to obtain a return merchandise authorization ("RMA") number, and return the defective product to Elvid along with the RMA number and proof of purchase. Shipment of the defective product is at the purchaser's own risk and expense.
For more information or to arrange service, visit **www.elvidcinema.com** or call Customer Service at 212-594-2353.
Product warranty is provided by the Gradus Group. **www.gradusgroup.com** Elvid is a registered trademark of the Gradus Group.

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