

Product Contents

- 1x VSW-41 Video Switcher
- 2x Mounting Ears
- 4x Mounting Screws
- 4x Plastic Cushions
- 1x RS-232 Cable
- 1x Power Adaptor (5V DC 2A)
- 1x Reference Guide

Safety Suggestions

Read and Follow Instructions. Read all safety and operating instructions before operating the unit.

Retain Instructions. Keep the safety and operating instructions for future reference.

Heed Warnings. Adhere to all warnings on the unit and in the operating instructions.

Heat. Keep the unit away from heat sources such as radiators, heat registers, stoves, etc., including amplifiers that produce heat.

Power Sources. Connect the unit only to a power supply of the type described in the operating instructions, or as marked on the unit.

Power Cord Protection. Route power supply cords so that they are not likely to be walked on or pinched by items placed on or against them, paying particular attention to the cord plugs at power receptacles and at the point at which they exit from the unit.

Water and Moisture. Do not use the unit near water—for example, near a sink, in a wet basement, near a swimming pool, near an open window, etc.

Object and Liquid Entry. Do not allow objects to fall or liquids to be spilled into the enclosure through openings.

Servicing. Do not attempt any service beyond that described in the operating instructions. Refer all other service needs to qualified service personnel.

Damage Requiring Service. The unit should be serviced by qualified service personnel when:

- The power supply cord or the plug has been damaged.
- Objects have fallen or liquid has been spilled into the unit.
- The unit has been exposed to rain.
- The unit does not appear to operate normally or exhibits a marked change in performance.
- The unit has been dropped or the enclosure has been damaged.

Cleaning

To clean this product, lightly dampen a lint-free cloth with plain water or a mild detergent and wipe the outer surfaces.

NOTE: Do not use harsh chemicals as damage to the unit may occur.

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received including interference that may cause undesired operation.

Industry Canada Compliance Statement

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received including interference that may cause undesired operation.

Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS (s). Son fonctionnement est soumis aux deux conditions suivantes:

1. Ce dispositif ne peut causer des interférences nuisibles.
2. Cet appareil doit accepter toute interférence reçue y compris des interférences qui peuvent provoquer un fonctionnement indésirable.

Contacting RTI

For news about the latest updates, new product information, and new accessories, please visit our web site at: www.rticorp.com

For general information, you can contact RTI at:

Remote Technologies Incorporated
5775 12th Ave. E Suite 180
Shakopee, MN 55379
Tel. (952) 253-3100
Fax (952) 253-3131
info@rticorp.com

Service & Support

If you are encountering any problems or have a question about your RTI product, please contact RTI Technical Support for assistance (see the Contacting RTI section of this guide for contact details).

RTI provides technical support by telephone or e-mail. For the highest quality service, please have the following information ready:

- Your Name
- Company Name
- Telephone Number
- E-mail Address
- Product model and serial number (if applicable)

If you are having a problem with hardware, please note the equipment in your system, a description of the problem, and any troubleshooting you have already tried.

Please do not return products to RTI without return authorization.

Limited Warranty

RTI warrants new products for a period of three (3) years (excluding consumables such as rechargeable batteries which are warranted for one (1) year) from the date of purchase by the original purchaser (end user) directly from RTI / Pro Control (herein referred to as "RTI"), or an authorized RTI dealer.

Warranty claims may be initiated by an authorized RTI dealer using the original dated sales receipt or other proof of warranty coverage. In the absence of the receipt of purchase from the original dealer, RTI will provide warranty coverage extension of six (6) months from the date code of the product. Note: RTI warranty is limited to the provisions set forth in this policy and does not preclude any other warranties offered by third parties who are solely responsible for those other warranties.

Except as specified below, this warranty covers defects in product material and workmanship. The following are not covered by the warranty:

- Product purchased via unauthorized sellers or internet sites will not be serviced—regardless of purchase date.
- Damages caused by accident, misuse, abuse, neglect or acts of God.
- Cosmetic damage, including, but not limited to, scratches, dents and normal wear and tear.
- Failure to follow instructions contained in the Product Installation Guide.
- Damages due to products used in an application or environment other than that for which it was intended, improper installation procedures or adverse environmental factors such as incorrect line voltages, improper wiring, or insufficient ventilation.
- Repair or attempted repair by anyone other than RTI and Pro Control or authorized service partners.
- Failure to perform recommended periodic maintenance.
- Causes other than product defects, including lack of skill, competence or experience of user.
- Damage due to shipment of this product (claims must be made to the carrier).
- Altered unit or altered serial number: defaced, modified or removed.

RTI is also not liable for:

- Damages caused by its products or for failure of its products to perform, including any labor costs, lost profits, lost savings, incidental damages, or consequential damages.
- Damages based upon inconvenience, loss of use of the product, loss of time, interrupted operation, commercial loss, any claim made by a third party or made on behalf of a third party.
- Loss of, or damage to, data, computer systems or computer programs.

RTI's liability for any defective product is limited to repair or replacement of the product, at the sole discretion of RTI.

In cases where the warranty policy conflicts with local laws, the local laws will be adopted.

VSW-41

4x1 HDMI Video Switcher

Reference Guide



VSW-41 4x1 HDMI Video Switcher

The VSW-41 is a 4K 4x1 Switcher delivers convenient, cost effective switching between up to four HDMI 2.0 video sources on one display. The VSW-41 supports 4Kx2K@60Hz 4:4:4 signals. It features 18Gbps bandwidth and HDCP 2.2 auto-detecting on all inputs. It's fully compliant with HDMI 2.0 standard and backward compatible with HDMI 1.4 sources and displays.

The VSW-41 provides superior quality and reliability as well as these features:

- Provides switching of up to 4 video sources to 1 display or projector.
- Supports HDMI2.0, and the max resolution supports 4Kx2K@60Hz 4:4:4.
- HDCP2.2 compliant, support auto-detecting for input HDCP compliant status.
- Supports EDID management, including 6 embedded EDID data can be invoked.
- Supports CEC to control source or display device via RS-232 commands.
- LED indicators show the switching status.
- High bandwidth: 18Gbps.
- Convenient firmware upgrade.
- Ultra-slim design.

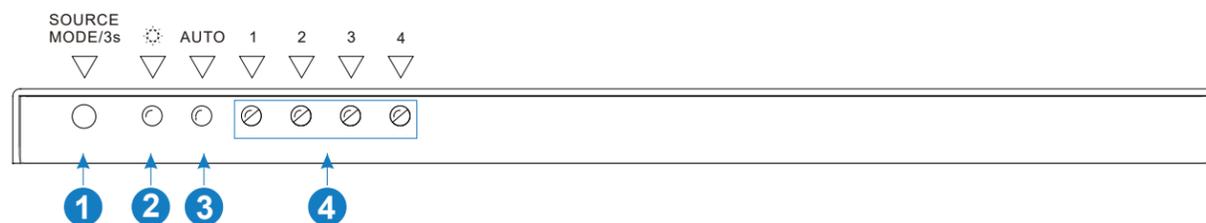


DECLARATION OF CONFORMITY (DOC)

The Declaration of Conformity for this product can be found on the RTI website at: www.rticorp.com/declaration

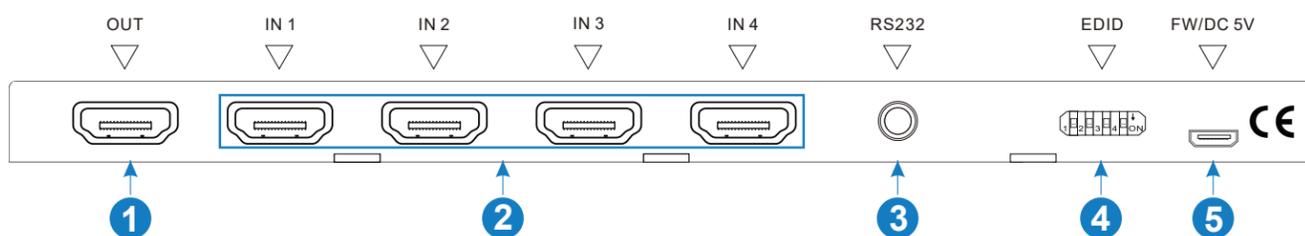
Installation & Operation

FRONT PANEL DESCRIPTION



No.	Name	Function
1	SOURCE/ MODE/3s	<ul style="list-style-type: none"> Video source selection button, press to switch among the 4 inputs. Switch mode selection button, press and hold for 3 seconds or more to switch between auto-switch mode and manual switch mode.
2	Power Indicator	Turns red when power is on.
3	AUTO	Bi-colored LED indicator for present switching mode. <ul style="list-style-type: none"> Turns blue when in auto-switching mode. Turns off when in manual mode.
4	1~4	Four bi-colored LED indicators: <ul style="list-style-type: none"> Turns orange when the corresponding HDMI input port is connected to a HDMI input device. Turns blue when the corresponding HDMI input device is selected as input source.

REAR PANEL DESCRIPTION

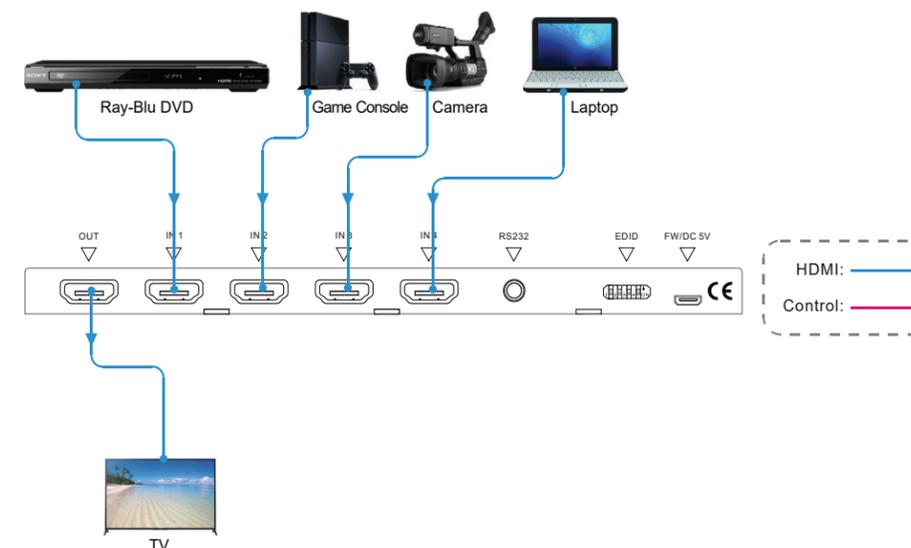


No.	Name	Function
1	OUT	Type-A HDMI output port for connection to a video display.
2	IN1~IN4	Four type-A HDMI input ports for connection to HDMI source devices.
3	RS-232	3.5mm jack for connection to the control system to control switcher.
4	EDID	4-pin DIP switch to select built-in EDID.
5	FW/DC 5V	<ul style="list-style-type: none"> Micro-USB port to connect 5V DC power adapter. Micro-USB port to connect PC to update firmware.

EDID SELECTION

ID	DIP Switch Status	Video	Audio
00	0000	Pass-through (default)	Pass-through (default)
01	0001	1080p 3D	2CH
02	0010	1080p 3D	Multichannel
03	0011	1080p 2D	2CH
04	0100	1080p 2D	Multichannel
05	0101	3840x2160 2D (30Hz)	
06	0110	3840x2160 2D (60Hz)	

CONNECTION DIAGRAM



SIGNAL SWITCHING

The button "SOURCE/MODE/3s" on the front panel can be used to select input source and switch mode. (Default: Manual switch).

Manual switching mode:

Press "SOURCE/MODE/3s" button to switch circularly among input 1~4, the corresponding LED indicator will illuminate blue for easy recognition.

Auto switching mode:

Press and hold the button "SOURCE/MODE/3s" for 3 seconds or more to switch between the manual and auto modes. Once enter auto-switching mode, the "AUTO" LED will light up.

The auto-switching mode abides by the following principles:

- New video input**
 When a new input signal is detected, the VSW-41 switches to this new input signal automatically.
- Power reboot**
 The VSW-41 supports power off memory function: The video output will be set to the last selected input video signal, if the video signal is available. If the video signal is not available, the switcher will detect all the input signals with priority from "IN 1" to "IN 4" ports. Video output will be set to the first signal that is detected.
- Video signal removal**
 When the current video input signal is removed, the VSW-41 will detect all input signals with priority from the next input port. It will transfer the first available video source to the output. For example, if the selected input signal "IN 2" is disconnected, VSW-41 will detect all input signals according to the following order: "IN 3", "IN 4", "IN 1", and the first available video source will be selected for output.

RS-232 CONTROL

To control the VSW-41 using serial communication from a control system, wire the RS-232 output of the control system to the VSW-41 RS-232 connector.

- Baud rate: 9600
- Data bit: 8
- Stop bit: 1
- Parity bit: none

INSTALLATION

Please visit the RTI dealer portal (www.rticorp.com/dealer) for additional instructions and specifications.

NOTE: Features and specifications subject to change without notice.