

Introduction

Congratulations and thank you for purchasing W Box Technologies 0E-HDMISW3X1.

0E-HDMISW3X1 is a 3 by 1 4K HDMI with HDCP 2.2 switcher which supports resolutions up to 4K@60Hz 4:2:0 8bit, a perfect solution for managing multiple sources. It provides three inputs for direct connection of HDMI devices, which gives you a high performance connection between three sources and a display without signal loss.

A desired HDMI source can be easily selected for the display from the panel switch button or using the supplied IR remote. The front panel LEDs show the currently selected source.

Please follow the instructions in this manual to assure proper installation and to achieve the full performance and satisfaction you would expect from W Box Technologies.

Features

- Easy to use, install in seconds.
- Supports up to 4K@60 Hz 4:2:0 8bit.
- HDCP 2.2 compliant.
- Supports HDMI transmission distance up to 3 meters at 4K@60Hz 4:2:0 8bit.
- Supports HDMI source devices for power supplying.
- Supports remote control and front panel button control.

Note: In order to ensure proper functionality, make sure the resolution of the sink is set to 4K@60Hz 4:2:0 or less when both the connected sources and sink support 4K@60Hz 4:4:4 8 bit.

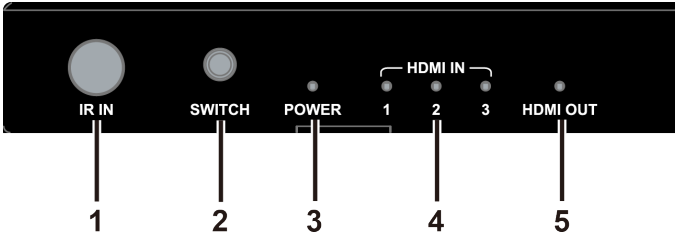
Package Contents

Before you start the installation, please check the package contents:

- 1 x OE-HDMISW3X1
- 1 x IR Remote
- 1 x IR Emitter Cable
- 2 x Mounting Brackets
- 1 x User Manual
- 1 x Datasheet

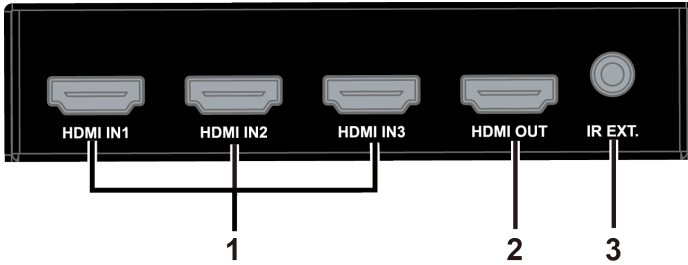
Panel

Front Panel



ID.	Name	Description
1	IR IN	Receiving IR signal Note: The IR receiver enabled angle and distance: Enabled Angel 0° 30°(Horizontal) 15°(Vertical) Distance 9m(Max) 5m(Max) 4m(Max)
2	SWITCH Button	Press to cycle through different sources.
3	POWER LED	Steady blue: The splitter is powered on.
4	HDMI IN LEDs	Steady blue: When a source device is powered on and connected to the splitter. OFF: No source device is connected or it is powered off.
5	HDMI OUT LED	Steady blue: The HDMI displays is powered on and connected to corresponding output. OFF: No HDMI display is connected or it is powered off.

Rear Panel

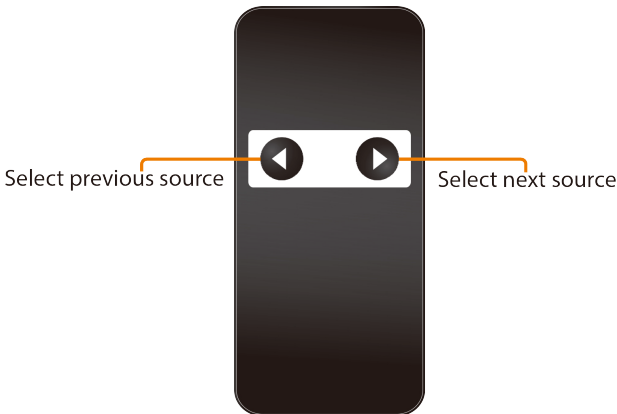


ID.	Name	Description
1	HDMI IN 1~3	Connects to HDMI sources
2	HDMI OUT	Connects to a HDMI sink
3	IR EXT.	Connects to the supplied IR Receiver cable, in order to remote control switcher.

IR Remote Handset

The included remote control can be used to switch three HDMI sources to one display device.

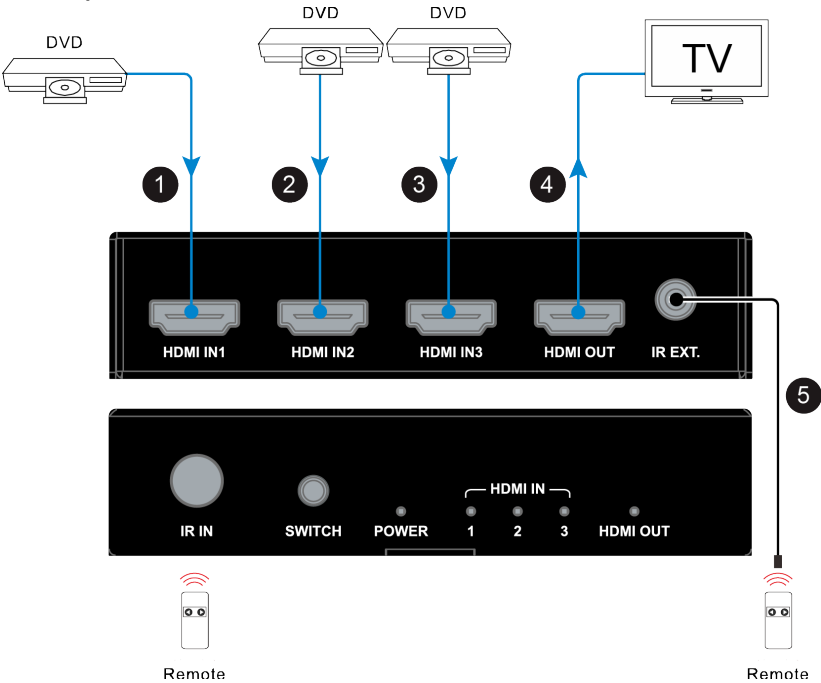
Note: Please make sure that the remote is pointed directly at the IR receive window or IR receiver cable head.



Installation Instructions

1. Connect HDMI source devices to the HDMI input ports via HDMI cables. As show number 1, 2, 3 in figure.
2. Connect an HDMI display to the HDMI output port via an HDMI cable. As show number 4 in figure.
3. Connect the IR receiver cable to the IR EXT port if you need to extend the control distance. As show number 5 in figure.
4. Power on all the devices. Now you can use the panel SWITCH button or the included remote to control the switcher.

Note: When you use the IR extend, the IR IN window on the other panel will be disabled.



Troubleshooting

W Box Technologies products are designed to function trouble-free. Most problems that occur are due to simple issues. If you have trouble, please check the list of simple fixes below.

Five Steps of Regular Troubleshooting Routine

1. **Power:** Make sure all devices are powered on. (source, switcher, display devices)
2. **Indicator:** Make sure LED indicators of splitter are normal according to user manual.
3. **Devices:** Make sure picture can be shown normally when connecting source to display devices directly.
4. **Cable:** Plug in and out HDMI cable or change another HDMI cable. For 4K@60Hz, HDMI cable should be less than 3m and standard HDMI cable is needed.
5. **Compatibility:** Please test other source and display devices to determine whether it is a compatibility issue.

Typical questions

1. How to deal with video flash or cut off during the installation?
 - Verify that all the indicators are solid on. If not, please check if the power adapter or HDMI cables are well connected.
 - Verify that the display device work properly and that the source devices have normal signals output.
2. How to deal with a weak or not working IR signal?
 - Make sure the IR cable is correctly installed according to the diagram above.
 - Pay attention to the control angle and distance as below: The control signal will be better when your controller is pointed at the IR receiver head directly.

Using the IR IN window on switcher panel:

Enabled Angle	0°	30°(Horizontal)	15°(Vertical)
Distance	9m(Max)	5m(Max)	4m(Max)

Using the IR extend receiver cable:

Enabled Angle	0°	30°(Horizontal)	15°(Vertical)
Distance	8m(Max)	4.5m(Max)	3m(Max)

Specification

Technical	
Input/Output Signal Type	HDMI1.4 with HDCP 2.2
Input/Output Resolution Supported	<p>SMPTE: 1280x720P^{1,2,3,4,5,6,7,8}, 1920x1080I^{6,8}, 1920x1080P^{1,2,3,4,5,6,7,8}, 3840x2160^{2,3,5,6,8}, 4096x2160^{2,3,5,6,8};</p> <p>VESA: 800x600⁸, 1024x768⁸, 1280x768⁸, 1280x800⁸, 1280x960⁸, 1280x1024⁸, 1360x768⁸, 1366x768⁸, 1400x1050⁸, 1440x900⁸, 1600x900⁸, 1600x1200⁸, 1680x1050⁸, 1920x1200⁸,</p> <p>1 = at 23.98 Hz, 2 = at 24 Hz, 3 = at 25 Hz, 4 = at 29.97 Hz, 5 = at 30 Hz, 6 = at 50 Hz, 7 = at 59.94 Hz, 8 = at 60 Hz;</p> <p>NOTE: 4096x2160/3840x2160@50Hz/ 60Hz is based on chroma sub-sampling 4:2:0 8-bit only</p>
Control	
Control Method	IR remote control Panel SWITCH button
General	
Power Consumption	0.25 W (Max.)

Operating Temperature	+32°F to +113°F (0°C to +45°C) 10% to 90%, non-condensing
Storage Temperature	-4°F to +158°F (-20°C to +70°C) 10% to 90%, non-condensing
ESD Protection	Human Body Model: ±8kV (air-gap discharge)/ ±4kV (contact discharge)
Dimensions	4.35" × 2.77" × 0.83" (110mm × 70.2mm × 21mm)
Weight	0.48lb/0.22kg
Certification	CE, FCC,RoHS

Limited Warranty

1. Limited Warranty

a. General

Subject to the terms and conditions of this Limited Warranty, from the date of sale through the period of time for product categories specified in Section 1(b), ADI warrants its W Box Technologies products to be free from defects in materials and workmanship under normal use and service, normal wear and tear excepted. Except as required by law, this Limited Warranty is only made to Buyer and may not be transferred to any third party.

ADI shall have no obligation under this Limited Warranty or otherwise if:

- (i) The product is improperly installed, applied or maintained;

- (ii) The product is installed outside of stated operating parameters, altered, or improperly serviced or repaired;
- (iii) Damage is caused by outside natural occurrences, such as lightning, power surges, fire, floods, acts of nature, or the like.
- (iv) Defects resulting from unauthorized modification, misuse, vandalism, or other causes
- (v) Unrelated to defective materials or workmanship, or failures related to batteries of any type used in connection with the products sold hereunder.

ADI only warrants those products branded as W Box Technologies products and sold by ADI. Any other products branded by third parties are warranted by the third party manufacturer for a period as defined by the third party manufacturer, and ADI assigns to Buyer those warranties and only those warranties extended by such third party manufacturers or vendors for non-ADI branded products. ADI does not itself warrant any non-ADI branded product and sells only on an as is basis in accordance with ADI's terms and conditions of sale.

b. Specific Warranties for product categories are as follows:

Product Categories	Warranty Period
Soundbars	12 months
Walk Through Metal Detectors	12 months
Intrusion Wireless Communication Accessories	12 months
Analog Cameras	24 months
HD TVI Cameras and HD TVI DVR's	24 months

Product Categories	Warranty Period
Televisions	24 months
CCTV Power Supplies	24 months
In Ceiling Speakers	24 months
Amplifiers	24 months
Magnetic Locks	24 months
Request to Exit Devices	24 months
Surge Protection	24 months
UPS (uninterruptible power supplies)	24 months
Volume Controls	24 months
HDMI Distribution	24 months
Intrusion Audio Devices	30 months
Monitors	30 months
Power and Relays	30 months
Hold-up Buttons	30 months
Video Baluns	30 months
DVR's, NVR's	60 months
IP Cameras	60 months
Racks	60 months
TV Mounts	60 months
PIR's	60 months
Analog Cables	Limited Lifetime

Product Categories	Warranty Period
B Connectors	Limited Lifetime
Bus Terminals	Limited Lifetime
Extension Cords	Limited Lifetime
HDMI Cables	Limited Lifetime
Jacks, Cords and Intrusion Communication Accessories	Limited Lifetime
Patch Cables	Limited Lifetime
Patch Panels	Limited Lifetime
Raceway Conduit	Limited Lifetime
Wire Ties	Limited Lifetime
Magnetic Contacts	Limited Lifetime

2. EXCLUSION OF WARRANTIES, LIMITATION OF LIABILITY

THERE ARE NO WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. TO THE FULLEST EXTENT PERMITTED BY LAW, IN NO CASE SHALL ADI BE LIABLE TO ANYONE FOR ANY (I) CONSEQUENTIAL, INCIDENTAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES ARISING OUT OF OR RELATING IN ANY WAY TO THE PRODUCT AND/OR FOR BREACH OF THIS OR ANY OTHER WARRANTY OR CONDITION, EXPRESS OR IMPLIED, OR UPON ANY OTHER BASIS OF LIABILITY WHATSOEVER, EVEN IF THE LOSS OR DAMAGE IS

CAUSED BY ADI'S OWN NEGLIGENCE OR FAULT AND EVEN IF ADI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSSES OR DAMAGES. Any product description (whether in writing or made orally by ADI or ADI's agents), specifications, samples, models, bulletin, drawings, diagrams, engineering sheets, or similar materials used in connection with the Buyer's order are for the sole purpose of identifying ADI's products and shall not be construed as an express warranty or condition. Any suggestions by ADI or ADI's agents regarding use, applications or suitability of the products shall not be construed as an express warranty or condition unless confirmed to be such in writing by ADI. ADI does not represent that the products it sells may not be compromised or circumvented; that the products will prevent any personal injury or property loss by burglary, robbery, fire or otherwise, or that the products will in all cases provide adequate warning or protection. Buyer understands and will cause its customer to understand that a properly installed and maintained product is not insurance or guarantee that such will not cause or lead to personal injury or property loss. CONSEQUENTLY ADI SHALL HAVE NO LIABILITY FOR ANY PERSONAL INJURY, PROPERTY DAMAGE OR OTHER LOSS BASED ON ANY CLAIM AT ALL INCLUDING A CLAIM THAT THE PRODUCT FAILED TO GIVE WARNING. However, if ADI is held liable whether directly or indirectly for any loss or damage with respect to the products it sells, regardless of cause or origin, its maximum liability shall not in any case exceed the purchase price of the product, which shall be fixed as liquidated damages and not as a penalty and shall be the complete and exclusive remedy against ADI.

3. Limitation on Liability to Buyer's Customers.

Buyer agrees to limit liability to its customers to the fullest extent permitted by law. Buyer acknowledges that ADI shall only be deemed to give consumers of its products such

statutory warranties as may be required by law and at no time shall Buyer represent to its customers and/or users of ADI products that ADI provides any additional warranties. By accepting the products, to the fullest extent permitted by law, Buyer assumes all liability for, and agrees to indemnify and hold ADI harmless against and defend ADI from, any and all suits, claims, demands, causes of action and judgments relating to damages, whether for personal injury or to personal property, suffered by any person, firm, corporation or business association, including but not limited to, Buyer's customers and/or users of the products because of any failure of the products to detect and/or warn of the danger for which the goods were designed or any other failure of the products whether or not such damages are caused or contributed to by the sold or joint concurring negligence or fault of ADI.

4. Returns

Subject to the terms and conditions listed below, during the applicable warranty period, ADI will replace Product or provide a credit at purchase at its sole option free of charge any defective products returned prepaid. Any obligations of ADI to replace Limited Lifetime warranty products pursuant to this warranty which result from defect are limited to the availability of replacement product. ADI reserves the right to replace any such products with the then currently available products, or provide a credit in its sole discretion. In the event Buyer has a problem with any ADI product, please call your local ADI branch for return instructions:

For US call 1-800-233-6261

For Canada call 877-234-7378

For Puerto Rico call 787-793-8830

Be sure to have the model number and the nature of the problem available. In the event of replacement, the return product will be credited to Buyer's account and a new invoice issued for the replacement item. ADI reserves the right to issue a credit only in lieu of replacement.

If any W Box Technologies product is found to be in good working order or such product's inability to function properly is a result of user damage or abuse, the product will be returned to Buyer in the same condition as received and Buyer shall be responsible for any return freight changes.

5. Governing Law

The laws of State of New York apply to this Limited Warranty.

6. Miscellaneous

Where any term of this Limited Warranty is prohibited by such laws, it shall be null and void, but the remainder of the Limited Warranty shall remain in full force and effect.