3x1 HDMI Switcher with Remote

EXP-SW-0301

WyreStorm

Quickstart Guide

WyreStorm recommends reading through this document in its entirety to become familiar with the product's features prior to starting the installation process.

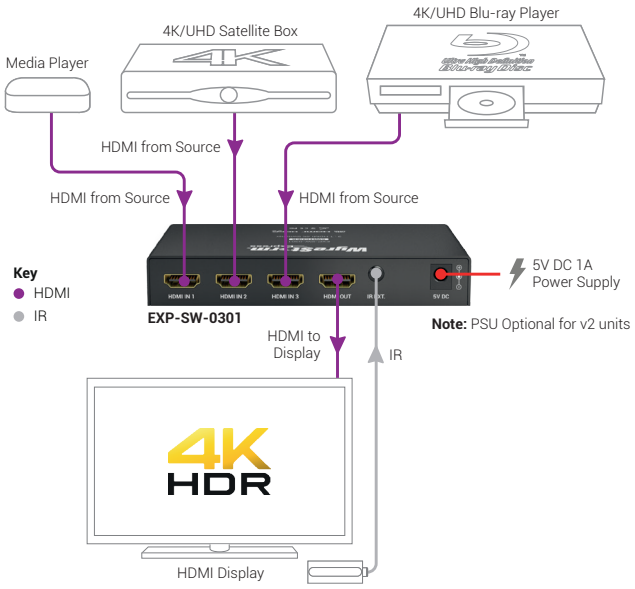
IMPORTANT! Installation Requirements

- This product was released in 2 different versions which contain different chassis designs and feature sets.
  See Identifying Product Versions for details.
- Visit the product page to download the latest firmware, document version, additional documentation, and configuration tools.
- Read through the Wiring and Connections section for important guidelines before creating or choosing premade cables.
- This product can be powered by the source via the HDMI Inputs or with an optional external power supply.
- An IR Ext input is provided to control this product using an IR Receiver (not included) or an IR control system.
  See Wiring and Connections for guidelines when connecting these devices.

In The Box

1x WyreStorm EXP-SW-0301 3x1 HDMI Switcher
1x Remote Control Handset
1x IR Receiver Cable

Basic Wiring Diagram



Identifying Product Versions

This product was released in 2 different versions which contain different chassis designs and feature sets. The differences are identified throughout this document in order to make installation and use easier.

Versions can be identified by a v# after the model number on the product chassis. Note that version 1 of this product may not contain a v1 after the product while all version 2s will contain a v2 after the model number. Additionally the chassis has changed from v1 to v2 making identification easy.

Version 1 Chassis



Version 2 Chassis



Operational Differences

Feature	Version 1	Version 2
IR Control Port for use with IR receiver or control system	No	Yes
Power Supply	Passive via HDMI or external PSU (Included)	Passive via HDMI or external PSU (Not Included)
Max Video Resolution	1920x1080p @60Hz 8bit	4096x2160p @60Hz 4:2:0 8bit
Chassis Design	Plastic chassis with front panel handles	Metal chassis - no front panel handles

Wiring and Connections

WyreStorm recommends that all wiring for the installation is run and terminated prior to making connections to the switcher. Read through this section in this entirety before running or terminating the wires to ensure proper operation and to avoid damaging equipment.

IMPORTANT! HDMI Wiring Guidelines

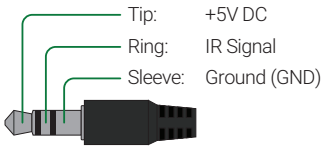
- The use of patch panels, wall plates, cable extenders, kinks in cables, and electrical or environmental interference will have an adverse effect on HDMI and Ethernet transmission limiting performance. Steps should be taken to minimize or remove these factors completely during installation for best results.
- WyreStorm recommends using high quality HDMI cables such as WyreStorm Express to ensure the highest content performance available.

IMPORTANT! IR Guidelines

This section applies to version 2 only as this connection is not available on the version 1.

- WyreStorm IR ports function differently than standard IR ports. For this reason only WyreStorm IR receivers can be used.
- When connecting to an IR control system use the WyreStorm CAB-IR-LINK cable. This cable compensates for differences between the WyreStorm RX and the control systems TX connection. Visit the CAB-IR-LINK product page for details.

IR Ext Port Pinout



Installation and Operation

1. Connect HDMI sources to INPUT ports 1~3 using good quality HDMI cables.
2. Connect an HDMI display device to the HDMI OUT port of the switcher.

Note: The switcher is powered via passive HDMI so no additional mains power supply to the unit is required.

3. Turn the power on using the included remote handset, ensuring LED power indicators are fully lit on the front of the switcher. If not, check HDMI cables are firmly connected.
4. To operate the switcher, press the SWITCH button on the front of the unit to scroll numerically through connected sources.
5. Alternatively, use the remote control handset to scroll forwards and backwards through the inputs or push buttons 1-3 corresponding to the connected sources.

Troubleshooting

No or Poor Quality Picture (snow or noisy image)

- Verify that power is being supplied to all devices in the system and that they are powered on.
- Verify that all HDMI connections are not loose and are functioning properly.
- If transmitting 3D or 4K, verify that the HDMI cables used are 3D or 4K rated.

No or Intermittent 3rd party Device Control

- Verify that the IR cable(s) is properly terminated.
  See Wiring and Connections
- Verify that the IR emitter is located near the IR receiver on the device.

Troubleshooting Tips:

- WyreStorm recommends using a cable tester or connecting the cable to other devices to verify functionality.
- Use a flashlight to locate the IR receiver behind any tinted panels on the devices being controlled.

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UK: +44 (0) 1793 230 343 | ROW: 844.280.WYRE (9973)
support@wyrestorm.com

Specifications

Audio and Video		
	Version 1	**Version 2**
Inputs	3x HDMI In: 19-pin type A	3x HDMI In: 19-pin type A
Outputs	1x HDMI Out: 19-pin type A	1x HDMI Out: 19-pin type A
Output Video Encoding	HDMI TMDS	HDMI TMDS
Audio Formats	2ch PCM | Dolby Digital True HD | DTS-HD Master Audio	2ch PCM | Dolby Digital True HD | DTS-HD Master Audio
Video Resolutions (Max)	1920x1080p @60Hz 8bit (15m/49ft) 1920x1200p @60Hz 8bit (15m/49ft)	1920x1080p @60Hz 8bit (15m/49ft) 1920x1200p @60Hz 8bit (15m/49ft) 3840x2160p @30Hz 4:4:4 8bit (7m/23ft) 4096x2160p @60Hz 4:2:0 8bit (7m/23ft)
Color Depth	8bit	8bit
Maximum Pixel Clock	297MHz	297MHz
Communication and Control		
HDMI	HDMI | HDCP 1.4	HDMI | HDCP 2.2
IR	1x Front Panel Sensor	1x Front Panel Sensor | 1x IR Ext: 3.5mm (1/8in) TRS Stereo
Power		
Power Supply	5V DC 1A (External Power Supply)	5V DC 1A (HDMI In | External Power Supply)
Max Power Consumption	4W	.25W
Environmental		
Operating Temperature	0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing	0 to + 45°C (32 to + 113 °F), 10% to 90%, non-condensing
Storage Temperature	-20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing	-20 to +70°C (-4 to + 158 °F), 10% to 90%, non-condensing
Maximum BTU	13.64 BTU/hr	0.85 BTU/hr
Dimensions and Weight		
Rack Units/Wall Box	<1U	<1U
Height	19mm/0.75in	21mm/0.83in
Width	120mm/4.73in	137mm/5.39in
Depth	69mm/2.72in	70.2mm/2.76in
Weight	0.7kg/1.54lbs	0.26kg/0.57lbs
Regulatory		
Safety and Emission	CE | FCC | RoHS	

Note: WyreStorm reserves the right to change product specification, appearance or dimensions of this product at any time without prior notice.

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UK: +44 (0) 1793 230 343 | ROW: 844.280.WYRE (9973)
support@wyrestorm.com