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 its entirety before running or terminating any wires to ensure proper operation and to avoid damaging the equipment.



▲ IMPORTANT! Wiring Guidelines

- The use of patch panels, wall plates, cable transmitters, kinks in cables, and electrical or environmental interference will have an adverse effect on signal transmission which may limit performance. Steps should be taken to minimize or remove these factors completely during installation for best results.
- WyreStorm recommends using pre-terminated HDMI, USB and Ethernet cables due to the complexity of these connector types. Using preterminated cables will ensure that these connections are accurate and will not interfere with the performance of the product.
- This product contains two USB-C connections that can be used as an audio/video input. When using this connection verify that the USB-C cable used supports audio/video functionality as not all USB-C cables support this requirement.

Audio Connections

A 5-pin Phoenix connector is used for balanced stereo audio output.



Relay Connections

The relays can be used to be trigger devices such as projector screens that are Normally Open (NO) or Normally Closed (NC).

務開展	WyreStam Connector			and Party Device
	Pin.1	NO Morrelly Open	Tp	NO (Normally Open)
	Pin 2	Common (Ground)		Common (Strund)
	Pin 5	NC (Normally Closed)	7p	NC (Normally Closed)

Mute Connections

Designed to be connected to button. Once these two pins are connected the audio will be muted on HDMI out and analog out.

Communication Connections

RS-232 Wiring

The SW-640L-TX-W uses a 3-pin RS-232 with no hardware flow control. Most control systems and computers are DTE where pin 2 is RX, this can vary from device to device. Refer to the documentation for the connected device for pin functionally to ensure that the correct connections can be made.

4-Pin Phoenix Terminal



WyreStorm Connector			3rd Party Device
Pin 1	12V DC Out	No Connection	Reserved
Pin 2	TX (Transmit)	> To>	RX (Receive)
Pin 3	RX (Receive)	> To>	TX (Transmit)
Pin 4	G (Ground)	> To>	G (Ground)

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support@wyrestorm.com

Setup and Configuration

Access the SW-640L-TX-W's settings through its Web User Interface by entering the unit's IP address into your prefferred web browser. By default, the unit is configured to use DHCP for network connection.

The obtain the IP address of your SW-640-TX-W:

- 1. Connect an external display to the HDMI output
- 2. A guide screen will appear on the display, where you can find the current IP address of the unit.

RS-232 and IP Settings

Baud Rate:	9600
Data Bits:	8bits
Parity:	None
Stop Bits:	1bit
Flow Control:	None
Default IP Address:	DHCP
Default IP Port:	23

Guide Screen

The switcher uses a Guide Screen to convey the basic connection instructions for user access.

The Guide Screen can be personalized to allow custom connection instructions on the switcher's Web UI page.



Features

- Provides two USB-C and two HDMI inputs, plus two HDMI outputs
- USB-C Inputs support dual-video input (MST), charging up to 60W, Ethernet connection, and USB 3.0 transmission
- Supports two HDMI outputs in single view, or one HDMI output in up to quadruple view
- Supports input resolutions up to 4K@30Hz 4:4:4
- Supports output resolutions up to 4K@60Hz 4:4:4 (HDMI OUT 1 only)
- Fast seamless switching for both single and Multiview mode
- Built-in Wi-Fi modules for wireless connectivity with devices over Airplay Mirroring, Miracast, Dongle and Chromecast
- Supports wireless conference (using Dongle for connecting between the host PC and USB peripherals wirelessly)
- Built-in quintuple USB 3.0 switcher allows for USB switching among five USB hosts
- Three Ethernet ports for networking flexibility and security
- RS-232 and relay output for peripherals
- Detailed and friendly OSD information
- Multiple control approaches: front panel buttons, Web UI and Telnet API



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. 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 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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The distance between user and products should be no less than 20cm.



We declare that this device is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

Manufacturer: Shen Zhen Proitav Technology Co.,Ltd

Address: 301-401, Building 16, Hejing Industrial Park, No.87, Hexiu west Road, Heping Community, Fuhai street, Baoan District, Shenzhen, China

Accessory Manufacturer: SHENZHEN FUJIA APPLIANCE CO., LTD Adapter: Power supply

Address of Manufacturer: 5F of Huatong Building, NO.8 Ganli Second Road, Jihua Street, Longgang District, Shenzhen, Guangdong, P. R. China

Accessory Manufacturer: Dongguan Jiaming Electronic Co.,td.

Adapter: WIFI Antenna

Address of Manufacturer: No.1.Putian Road, Puxin Lake Pulong Industria Area.

Tangxia Dongguan city, Guangdond

The adapter shall be installed near the equipment and shall be easily accessible.

Accessory Manufacturer: Dongguan Hope Electronics Co., Ltd Adapter: AC cable

Address of Manufacturer: Dongshadun, Xiansha Industrial Avenue, Xiansha Village, Gaobu Town, Dongguan City, Guangdong Province

Operating temperature: 0°C to 45°C

WiFi Operation Frequency: 2.4G: 2412MHz~2462MHz 5G: 5150MHz~5250MHz 5.8G: 5725MHz~5850MHz

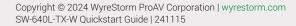
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Maximum Power:

802.11n/MCS7: 14 dBm ± 2 dB 802.11ac/MCS8: 13 dBm ± 2 dB 802.11ac/MCS9: 12 dBm ± 2 dB

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Specifications

Audio and Video		
Inputs	2x HDMI In: 19-pin Type A 2x USB-C Wireless Video from Airplay or Miracast Source APO-DG2 casting dongle (sold seperatley)	
Outputs	2x HDMI Out: 19-pin Type A 1x Analog Audio Out (5-pin Phoenix Male Connector)	
Output Video Encoding	HDMI	
Audio Formats	2ch PCM	
Video Resolutions (Max)	HDMI Out 1 - 3840x2160p @60Hz 4:4:4 HDMI Out 2 - 3840x2160p @30Hz 4:4:4	
Supported Standards	DCI RGB	
Maximum Pixel Clock	300MHz	
Communication and Control		
ндмі	HDMI Out 1 - HDCP 2.2 HDMI In & HDMI Out 2 - HDCP 1.4	
USB	3x USB 2.0 Type A device ports 5v 10000mA per port 2x USB 2.0 Type B host ports (assignable)	
RS-232	1x 4-pin Phoenix (API control) Provides 12V Power	
LAN	3x 8-pin RJ-45 Ethernet Ports	
Wireless	4x Wi-Fi Antennas IEEE 802.11 a/b/g/n/ac Dual-band 2.4 & 5GHz WEP, TKIP, AES, WPA, WPA2	
Power		
Power Supply	20V 10A	
Environmental		
Operating Temperature	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	
Maximum BTU	540 BTU/hr	
Dimensions and Weight		
Rack Units/Wall Box	<1U	
Height	42mm/1.65in (Antennas Excluded) 90.9mm/3.57in (Antennas Included)	
Width	215mm/8.46in (Antennas Excluded) 215mm/8.46in (Antennas Included)	
Depth	180.2mm/7.1in (Antennas Excluded) 210.7mm/8.3in (Antennas Included)	
Weight	1.2Kg/3.74lbs	
Regulatory		
Safety and Emission	CE FCC RoHS RCM EAC UKCA	

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

Troubleshooting

No or Poor Quality Picture (snow or noisy image)

- · Verify that the USB-C & HDMI inputs and HDMI output connections are not loose and are functioning property.
- · Make sure you are using full featured USB Type-C cables made by WyreStorm or other reliable brands.
- Verify that the output resolution of the source and display is supported by this switcher.
- Configure EDID Settings to a lower resolution.
- If transmitting 4K, verify that the HDMI & USB-C cables used are 4K rated.

No or Intermittent 3rd party Device Control

Verify that RS-232 cable is properly terminated. If you are using IP (make sure switcher and your control system are on the same IP ra

Wireless Casting Issues

- Make sure your BYOD is connected to the SW-640L-TX-W soft AI is set as SW-640L-TX-W or to the same network.
- · Make sure you entered the correct access code which can be ob through OSD.



WyreStorm recommends using a cable tester or connecting the cable to other devices to verify functionality.

Warranty Information

WyreStorm Technologies ProAV Corporation warrants that its products to be free from defects in material and workmanship under normal use for a period of five (5) years from the date of purchase. Refer to the Product Warranty page on wyrestorm.com for more details on our limited product warranty.



INT: +44 (0) 1793 230 343 | US: 844.280.WYRE (9973) support@wyrestorm.com 4-Input 4K Presentation Switcher with Matrix Outputs, **USB 3.0, Multiview & Wireless Casting**

SW-640L-TX-W





🜒 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

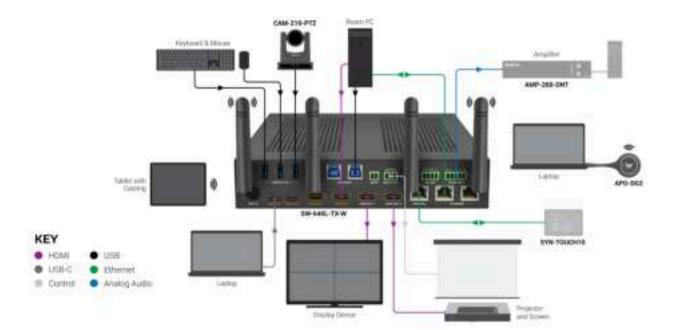
- Read through the Wiring and Connections section for important wiring guidelines before creating or choosing premade cables.
- While these products support CEC for the HDMI outputs, WyreStorm cannot guarantee compatibility with all forms of CEC communication.
- Visit the product pages to download the latest firmware, document version, additional documentation, and configuration tools.

In the Box

1x SW-640L-TX-W

- 1x 20V 10A Power Supply (US/UK/EU/AU)
- 4x Plastic Mounting Brackets
- 1x 2-pin Phoenix Connector (for PA Sensor)
- 1x 3-pin Phoenix Connector (for Relay)
- 1x 4-pin Phoenix Connector (for RS-232)
- 1x 5-pin Phoenix Connector (for Audio Out)
- 4x Wi-Fi Antennas
- 1x Quickstart Guide (This Document)

Basic Wiring Diagram



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