

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.
- This product contains a USB-C connection 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

The analog audio output uses a 5-pin balanced phoenix connector

	WyreStorm Connector		3rd Party Device
1	Left Positive (L+)	----> To ---->	Left Positive (L+)
2	Left Negative (L-)	----> To ---->	Left Negative (L-)
3	Ground (G)	----> To ---->	Ground (G)
4	Right Negative (R-)	----> To ---->	Right Negative (R-)
5	Right Positive (R+)	----> To ---->	Right Positive (R+)

API Control & Web UI

The SW-220-TX-W contains a web UI that can be accessed by connecting to a network and entering the IP address. WyreStorm recommends settings a static IP to the switcher before permanent installation. API commands can be sent from a 3rd-party control system to control various aspects of the switcher. For full details on the API see the separate API documentation at wyrestorm.com.

LAN Settings

Default IP Address:	DHCP
Telnet IP Port (Default):	23
TLS IP Port:	24

APO-DG1 Pairing

The SW-220-TX-W is compatible with the optional APO-DG1 wireless casting dongle. To pair an APO-DG1 with the switcher, insert the USB-C connector of the dongle into the USB-C "Pairing" port on the front of the switcher. A message will appear on the display connected to the switcher saying "Pairing Dongle". Wait for the pairing process to complete before disconnecting the APO-DG1. Up to two dongles can be actively used with a SW-220-TX-W.

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.

The screenshot shows a 'Welcome! To get started, follow the steps below:' screen. It features three columns for different devices: iPhone/iPad, Android, and Windows. Each column has 'Step One' and 'Step Two' instructions. Callouts on the right side of the screen point to 'Host Name/SSID' and 'IP Address Wifi Password' fields.

Troubleshooting

No or Poor Quality Picture (snow or noisy image)

- Verify that power is being supplied to the transmitter and receiving device.
- Verify that all HDMI and HDBaseT connections are not loose and are functioning properly.
- Verify that the HDBaseT cable is properly terminated following EIA568B standard.
- Verify that the output resolution of the source and display is supported by this transmitter.
- Configure EDID Settings to a lower resolution.
- If transmitting 4K, verify that the HDMI cables used are 4K rated.

No or Intermittent 3rd party Device Control

Verify that the IR and RS-232 cables are properly terminated following the [Wiring and Connections](#) section.

Relays Not Functioning

Verify polarity of the relay connections

🔍 Troubleshooting Tips:

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

Unable to Wirelessly Cast

- Ensure your device is connected to the correct Wi-Fi signal
- If a casting pin has been enabled on the switcher, ensure you are entering the correct value.
- APO-DG1: Ensure the dongle is properly paired to the switcher per the pairing instructions
- APO-DG1: Only use a direct connection to a PC. Do not use any USB adapters or hubs.



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 Tianweixun Wireless Technology Co., Ltd
Adapter: Antenna
Address of Manufacturer: 9/F, Building 1, Guole Science and Technology Park, No. 1 Lirong Road, Dalang Street, Longhua New District, Shenzhen

Accessory Manufacturer: Dongguan NB Power Electronic Limited
Adapter: Power supply
Address of Manufacturer: No.365, South Dongkeng Road, Dongkeng Town, Dongguan City, 523443, P. R. China
The adapter shall be installed near the equipment and shall be easily accessible.

Accessory Manufacturer: Shenzhen Ohonda Technolgy Co., LTD
Adapter: Terminal block
Address of Manufacturer: Room 609, Block D, Hongtaifu Building, Zone No.34, Baoan District, Shenzhen

Operating temperature: 0°C to 45°C

Wi-Fi Operation Frequency: 2412MHz~2462MHz
Maximum Power: 16.14dBm (E.I.R.P.)

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.



2-Input 4K Presentation Switcher with Wireless Casting

SW-220-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-220-TX-W Switcher
- 1x 12V Power Supply (US/UK/EU/AU)
- 1x 5-pin Terminal Block
- 2x Mounting Brackets with Screws
- 1x Quickstart Guide (This Document)

Basic Wiring Diagram

