4K60Hz 4-Output Video Wall Processor

SW-0204-VW





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

- 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-0204-VW Video-Wall Processor

1x DC 12V 3A Power Adapter

1x AC Power Cord (with AU, EU, UK, US Pins)

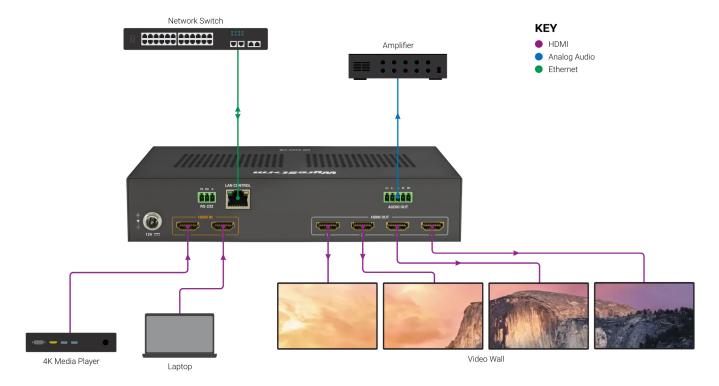
1x 3.5mm 3-pin Phoenix Male Connector

1x 3.5mm 5-pin Phoenix Male Connector

4x Mounting Brackets (with Screws)

1x Quick Start Guide

Basic Wiring Diagram



SW-0204-VW (Front)

G



A Power LED Solid: The unit is powered On Off: The unit is powered Off

B INPUT SELECT Button & LED 1

INPUT SELECT Button 1: Press to select HDMI IN 1 as input source.

LED 1:
On: The HDMI IN 1 is selected as input source.

Off: The HDMI IN 1 is not selected as input source.

INPUT SELECT Button 2: Press to select HDMI IN 1 as input source.

INPUT SELECT Button & LED 2

On: The HDMI IN 1 is selected as input source.

Off: The HDMI IN 1 is not selected as input source.



| A | Power Input | Connect to the provided DC 12V power adapter. | D | RS-232 | Connect to a RS232 enabled control device for API control. |
|---|-------------|---|----------|-------------|---|
| В | HDMI Inputs | Connect to HDMI sources. | B | LAN Control | Connect to a network device (e.g., network switch, router, computer, etc.) for LAN control (Web UI & Telnet). |
| C | HDMI Out | Connect to HDMI displays for video wall connection. | • | Audio Out | 5-pin Phoenix Analog Audio with balance (De-embed from selected HDMI input). |

Wiring and Connections

WyreStorm recommends that all wiring for the installation is run and terminated prior to making connections to the device. 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 extenders, 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 cables due to the complexity of these connector types. Using pre-terminated cables will ensure that these connections are accurate and will not interfere with the performance of the product.

RS-232 Wiring

The SW-0204-VW 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.



| | WyreStorm Connector | | | 3rd Party Device |
|--|---------------------|---------------|-------|------------------|
| | | | | Sid Party Device |
| | Pin 1 | TX (Transmit) | > To> | RX (Receive) |
| | Pin 2 | RX (Receive) | > To> | TX (Transmit) |
| | Pin 3 | G (Ground) | > To> | G (Ground) |

Troubleshooting

No or Poor Quality Picture (snow or noisy image)

- Verify that power is being supplied to the device.
- Verify that all HDMI connections are not loose and are functioning properly.
- Verify that the output resolution of the source and display is supported.
- If transmitting 4K, verify that the HDMI cables used are 4K rated.

No or Intermittent 3rd party Device Control

Verify that the RS-232 cables are properly terminated following the Wiring and Connections section.



Troubleshooting Tips:

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

Accessing the WebUI

By default, this unit uses **DHCP** to obtain its IP address. If no DHCP server is available, it assigns itself a **link-local IP address** in the 169.254.x.x range. To find the unit's current IP address:

Using RS232 Command:

- Connect to the unit via RS232.
- Send the command "GET IPADDR <CR><LF>"

Using SmartSetGUI Software: 2

- Launch SmartSetGUI on a computer connected to the same network.
- Use the software's discovery feature to locate and display the unit's IP address.

Specifications

| Audio and Video | | | | | |
|---|--|--|--|--|--|
| Inputs | 2x HDMI In: 19-pin Type A | | | | |
| Outputs | 4 x HDMI OUT: 19-pin type A 1 x 5-pin Phoenix Analog Audio with balance (de-embed from selected HDMI input) | | | | |
| Audio Formats | io Formats PCM 2ch Analog | | | | |
| Input Video Resolution | 800 x 600 ⁸ , 1024 x 768 ⁸ , 1280 x 720P ^{6,78} , 1280 x 768 ⁸ , 1280 x 800 ⁸ , 1280 x 900 ⁸ , 1280 x 1024 ⁸ , 1360 x 768 ⁸ , 1366 x 768 ⁸ , 1440 x 900 ⁸ , 1600 x 900 ⁸ , 1600 x 1200 ⁸ , 1680 x 1050 ⁸ , 1920x1080P ^{6,78} , 1920 x 1200 ⁸ , 3840 x 600 ⁸ , 3840x2160P ^{2,3,5,8*} , 4096x2160P ^{2,3,5,8*} 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, 9 = at 100 Hz, 10 = at 120 Hz | | | | |
| Output Video Resolution (Max) Auto-Scaler (scale up and down to any resolution up to 4K@60Hz) 1920x1080p @60Hz 4:4:4 8bit 3840x2160p @60Hz 4:4:4 8bit 4096x2160p @60Hz 4:4:4 8bit | | | | | |
| Communication and Control | | | | | |
| ндмі | HDMI 2.0 HDCP 2.3 EDID CEC | | | | |
| RS-232 | 1x RS-232: 3-pin Phoenix Female Video-Wall Processor Control Routable RS-232 Device Control Telnet commands supported | | | | |
| Ethernet 1x LAN: 8-pin RJ-45 Female Web UI Video-Wall Control and Ethernet | | | | | |
| Power | | | | | |
| Power Supply | DC 12V/3A | | | | |
| 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 | | | | |
| Dimensions and Weight | | | | | |
| Rack Units/Wall Box | its/Wall Box <1U | | | | |
| Height | yht 42mm/1.65in | | | | |
| Width | th 215mm/8.46in | | | | |
| Depth | 140.2mm/5.52in | | | | |
| Regulatory | | | | | |
| Supported Standards DCI (4096x2160) RGB HDR HDR10 Dolby Vision HLG BT.2020 | | | | | |

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

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.

