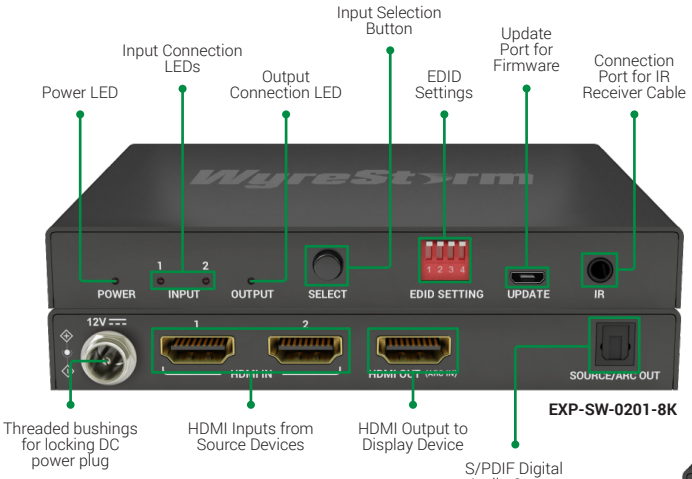
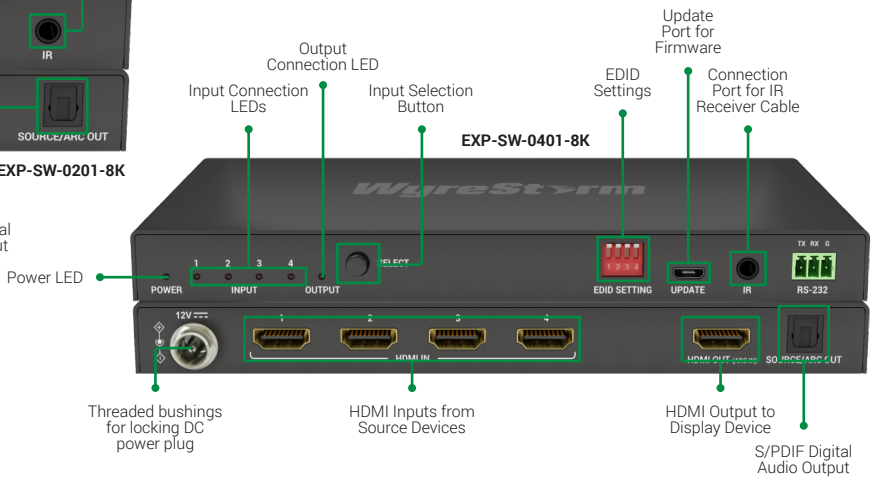
**WyreStorm Essentials 8K60 2x1 and 4x1 HDMI Switcher**

**EXP-SW-0x01-8K**

# Specification Sheet




4320p 4:4:4 60 HDMI 2.1 HDCP 2.3

*WyreStorm - Powerful. Reliable. Simple.*

## Introduction

Our EXP-SW-0X01-8K is a powerful plug-and-play 8K HDMI switcher that has the ability to send uncompressed up to 8K@60Hz or 4K@120Hz resolutions to your display. This switcher also supports DSC 1.2a pass-through, an approved method of compression in accordance to the HDMI 2.1 specification, allowing up to a 10K@120Hz signal to be transmitted losslessy.

this switcher also gives you the tools to de-embed audio from your source if there isn't an option on the source and also supports ARC from your display to send to send high quality 5.1 to your audio distribution system. Other features such as auto switching and CEC passthrough makes the EXP-SW-0X01-8K a true and powerful plug-and-play solution.

Don't forget, this switcher can be paired with any of our CAB-HAOC-FRL's to further extend your 8K@60Hz signal further than a standard 8K HDMI cable!

## Key Features

- Uncompressed transmission of HDMI content up to 40Gbps:
  2K (2560 x 1440p) 240Hz
  4K (4096 x 2160p) 144Hz
  5K (5120 x 2880p) 60Hz
  8K (7680 x 4320p) 60Hz
  10K (10240x4320p) 120Hz (w/ DSC)
- Compatible with all Dynamic HDR and HDR standards:
  HLG (Hybrid Log Gamma)
  HDR-10 and HDR-10+
  Dolby Vision
  PQ (Perceptual Quantizer)
  SL-HDR-1
- A true plug-and-play HDMI switcher, supporting up to 4 or 2 8K sources to one screen
- HDCP 2.3 compliant
- Full CEC passthrough
- DSC 1.2a passthrough
- Supports EDID management via DIP switches
- S/PDIF audio output from HDMI de-embed or ARC
- Automatic or Manual switching
- Supports up to 40Gbps FRL and 18Gbps TMDS
- FRL to TMDS and TMDS to FRL mode conversion
- Supports HDMI2.1 features such as QFT (Quick Frame Transport), QMS (Quick Media Switching), ALLM (Auto Low Latency Mode) and VRR (Variable Refresh Rate)
- IR and RS-232 control supported
- No single use plastic included* #SUPFree

## In the Box

1x EXP-SW-0201-8K or EXP-SW-0401-8K
1x DC 12V PSU (US, UK, EU, AU)
1x IR Receiver Cable
1x IR Remote
2x Mounting Brackets (with screws)
1x Quickstart Guide

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## Specifications

| | EXP-SW-0201-8K | EXP-SW-0401-8K |
|---|---|---|
| **Transmission** | | |
| **Transmission Encoding** | Uncompressed (with DSC 1.2a Pass-through between Source-Display when required) | |
| **End to End Latency** | Zero | |
| **Max Transmission Bit Rate** | 40Gbps (4-core, 10Gbps per lane) | |
| **Video** | | |
| **HDMI** | TMDS (600MHz Maximum) \| FRL (16b/18b encoding) \| DSC 1.2a Supported | |
| **Input** | 2x HDMI: 19-pin type A Male | 4x HDMI: 19-pin type A Male |
| **Output** | 1x HDMI: 19-pin type A Male | 1x HDMI: 19-pin type A Male |
| **Maximum Data Rate** | 40 Gbps (FRL) \| 18 Gbps (TMDS) | |
| **Video Resolutions (Max)** | 1920x1080p @240Hz<br>4096x2160p @144Hz<br>5120x2880p @60Hz<br>7680x4320p @60Hz<br>10240x4320p @120Hz w/DSC | |
| **Supported Standards** | DCI \| Static HDR \| HDR10+ \| Dolby Vision \| HLG \| SL-HDR1 \| PQ \| BT.2020 \| BT.2100 | |
| **Audio** | | |
| **Audio Return Channel (ARC)** | Supported | |
| **Audio Formats** | 2ch PCM \| Multichannel LPCM \| DTS-X \| Dolby Atmos | |
| **Maximum Sampling Rate** | 192KHz | |
| **Maximum Audio Channels** | 32 | |
| **Communication and Control** | | |
| **HDMI** | HDMI 2.1 \| HDCP 2.3 \| EDID \| CEC (Pass-through) \| VRR (Variable Refresh Rate) \| ALLM (Auto Low Latency Mode) \| FVA (Fast Vactive) \| DVI/D supported with adapter (not included) | |
| **IR** | 1x Front Panel Sensor | |
| **Push Button** | Front Panel Push Button | |
| **RS-232** | NA | 1x 3-Pin Terminal Block |
| **Power** | | |
| **Power Supply** | 12V DC 1A | |
| **Max Power Consumption** | 3.5W | |
| **Environmental** | | |
| **Operating Temperature** | 0 ~ +45°C (32 ~ +113 °F), 10% ~ 90%, non-condensing | |
| **Storage Temperature** | -20 ~ +70°C (-4 ~ +158 °F), 10% ~ 90%, non-condensing | |
| **Humidity** | 10% to 90%, non-condensing | |
| **Maximum BTU** | 12 BTU/hr | |
| **ESD Protection** | Human-body Model:<br>±8kV (Air-gap discharge)/<br>±4kV (Contact discharge) | |
| **Dimensions and Weight** | | |
| **Height** | 18mm/0.71in | 18mm/0.71in |
| **Width** | 140mm/0.78in | 200mm/7.87in |
| **Depth** | 80.2mm/3.16in | 90.2mm/3.55in |
| **Weight** | 0.28kg/0.62lbs | 0.45kg/0.99lbs |
| **Regulatory** | | |
| **Safety and Emission** | CE \| FCC \| RoHS \| EAC | |