

# SC-SW0204R-WallEW6

## 4K Wall Matrix Switcher



### Features

- HDCP 2.2 and DP1.2a compliant
- Support video resolution up to 4K@60Hz 4:4:4 and 18Gbps video bandwidth, as specified in HDMI 2.0b
- Support HDMI input and USB-C input, and the resolution is up to 4K@60Hz 4:4:4
- Support seamless switching
- Support optical audio and L/R analog audio de-embedding output
- Support 8 video wall splicing modes: 1x1, 2x1, 3x1, 4x1, 1x2, 1x3, 1x4, 2x2
- Each output supports horizontal mirror and vertical mirror
- Support image 180° rotation, convenient for ceiling installation.
- Support bezel adjustment for the splicing edge
- Advanced EDID management
- Control via front panel buttons, IR remote and RS-232 commands

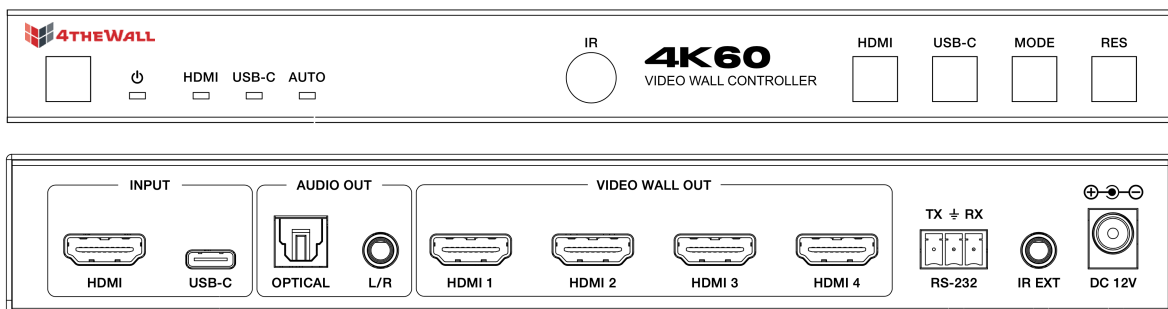
### Product Overview

The 4TheWall 18Gbps 1x4 Video Wall Controller is a high-performance solution designed to manage and distribute high-definition signals across video wall setups, particularly with LCD displays. It excels in capturing, AD converting, routing, and distributing all-format signals while ensuring the integrity of digital transmission.

- **High-Resolution Inputs:**
  - **HDMI Input:** Supports resolutions up to 4K@60Hz with 4:4:4 chroma subsampling, ensuring superior image quality and color accuracy.
  - **USB-C Input:** Provides an alternative high-resolution input option, also supporting up to 4K@60Hz 4:4:4 resolution. Ideal for modern devices and flexible connectivity.
- **Multiple HDMI Outputs:**
  - **4 HDMI Outputs:** Designed to drive up to four displays simultaneously, supporting a variety of video wall configurations. Each output maintains high resolution, ensuring crisp and synchronized video playback.
- **Flexible Video Wall Modes:**
  - **Customizable Layouts:** Multiple video wall modes allow for flexible display configurations. Whether for a 2x2 grid, a 1x4 linear setup, or other custom layouts, the controller adapts to your specific needs.
- **Advanced Audio Management:**
  - **Optical Audio Output:** Delivers high-quality digital audio, compatible with most audio systems.
  - **L/R Analog Audio De-embedding:** Separates audio from the HDMI or USB-C input, providing easy integration with external sound systems.
- **Robust Control Options:**
  - **Front Panel Buttons:** Intuitive interface for quick adjustments and setup.
  - **IR Remote Control:** Provides convenient control from a distance, perfect for large installations or when the controller is mounted in an inaccessible location.
  - **RS-232 Commands:** Allows for integration with advanced control systems, enabling automated or remote operation via serial commands.
- **Supported Resolutions:** Up to 4K@60Hz with 4:4:4 chroma subsampling for both HDMI and USB-C inputs.
- **Audio Output:** Optical (S/PDIF) and L/R analog, supporting various audio de-embedding configurations.
- **Control Interfaces:** Front panel, IR remote, RS-232 serial port.

### Applications:

- **Commercial Installations:** Perfect for retail environments, control rooms, and other commercial settings where high-definition video walls are required.
- **Residential Setups:** Ideal for home theater enthusiasts who demand high-quality video across multiple displays.
- **Corporate Use:** Suitable for conference rooms and presentations where multiple displays are needed to present clear, synchronized content.



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## Technical Specifications

Input and Output	
Inputs	1 × HDMI 2.0b Input (Type A, 19-pin female) 1 × USB-C
Outputs	4 × HDMI 2.0b Output (Type A, 19-pin female), 4 × Optical audio Output (S/PDIF), 4 × L/R Audio Output (3.5mm, 5pin Phoenix)
Inputs Resolution	Up to 4K@60Hz
Outputs Resolution	Up to 4K@60Hz
General Features	
Video Bandwidth	18Gbps
Color Space	RGB, YCbCr 4:4:4 / 4:2:2. YUV 4:2:0
Color	8/10/12bit
HDCP	HDCP 2.2
Audio Formats	<b>Analog:</b> LPCM 2CH, <b>HDMI:</b> LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Aud, <b>SPDIF:</b> LPCM 2.0CH/Dolby/DTS 5.1CH
Ports And Management Features	
Network Port	1 × RJ45
Serial Port	1 × RS232 (9 Pin D-Sub)
Management and Control	WEB GUI, IR Remote Control, TCP/IP & RS232 (3pin Phoenix) with API
Others	
Power Connection	Input: AC 100-240V 50/60Hz, Output: DC 24V/3.75A
Working Temperature	32 - 104°F / 0 - 40°C
Humidity Range	20 - 90% RH (no condensation)
Storage Temperature	-4 - 140°F / -20 - 60°C
Dimensions	220mm [W] × 100mm [D] × 30mm [H]
Weight	590g
Power Value/Consumption	5.5W (Max)
Mounting	Rack Mounted / Desktop
ESD Protection	±8kV (Air-Gap Discharge) & ±4kV (Contact Discharge)
Certifications	
EU/USA	CE/FCC/UL
Package Details	
Package Contents	1 × 18Gbps 1x4 Video Wall Controller 1 × 12V/1A Locking Power Supply 1 × Power Adapter 1 × IR Remote 1 × 5V IR Receiver Cable (1.5m) 1 × 3pin-3.81mm Phoenix Connector (male) 4 × Machine Screw (KM3*4) 2 × Mounting Ear 1 × User Manual