

SC-KVM0402E-UC

4K KVM Switcher

Model Number:#2308262203



Features

- HDCP 2.3 and DisplayPort 1.4a compliant
- Four-input, two-output huddle room presentation switcher
- Two HDMI and two USB-C AV inputs
- Two mirrored HDMI outputs
- Supports video resolutions up to 4K@60Hz with 4:4:4 color sampling
- USB-C inputs support DisplayPort Alt Mode up to 4K@60Hz 4:4:4
- USB-C connectivity supports USB 3.2 Gen 1 data rates up to 5Gbps
- Up to 100W total USB-C charging capacity, with up to 50W available per port
- HDMI inputs support up to 4K@60Hz 4:4:4, as specified in HDMI 2.0b
- One USB-C host and one USB-B host connection
- One USB-C and two USB-A device ports
- Integrated USB 3.2 Gen 1 KVM and local USB hub
- USB device port provides 5V/1.5A power output
- Fast source switching with automatic and manual modes
- Automatic switching based on signal and 5V detection
- Balanced and unbalanced analog audio embedding
- Balanced and unbalanced analog audio de-embedding
- Advanced EDID management
- Customizable welcome screen and no-signal image
- Dual Gigabit Ethernet ports
- Supports IEEE 802.1X authentication and VLAN
- IR receiver for IR learning and device control
- Automatic display power on/off control
- External device control via CEC, IR, RS-232, LAN and GPIO
- Controlled via front-panel buttons, RS-232, TCP/IP and Web GUI

Product Overview

The **4TheWall 4x2 Huddle Room Switcher** is a professional presentation and collaboration solution designed to simplify connectivity, source selection and device control in modern meeting spaces.

The switcher features two HDMI and two USB-C inputs together with two mirrored HDMI outputs. It supports resolutions up to 4K@60Hz with 4:4:4 color sampling, delivering clear, detailed and color-accurate video for presentations, conferencing and collaborative applications. Both USB-C inputs support DisplayPort 1.4a Alt Mode, USB 3.2 Gen 1 data transfer, Gigabit Ethernet connectivity and device charging. The system provides up to 100W of total USB-C charging capacity, with up to 50W available for each USB-C input, allowing compatible laptops and BYOD devices to receive video, data, network connectivity and power through a single cable. Integrated USB KVM functionality allows connected USB peripherals to be shared between selected host devices. One USB-C host port and one USB-B host port are provided, along with one USB-C and two USB-A device connections for cameras, speakerphones, keyboards, mice and other compatible meeting-room peripherals. The switcher supports automatic and manual source selection. Automatic switching uses active-signal and 5V detection to identify connected sources and select the appropriate input. It can also manage display power and control external devices, helping automate the complete meeting-room startup and shutdown process. Balanced and unbalanced analog audio embedding and de-embedding provide flexible integration with microphones, audio processors, amplifiers and conferencing systems. Audio can be inserted into or extracted from the selected HDMI or USB-C signal path.

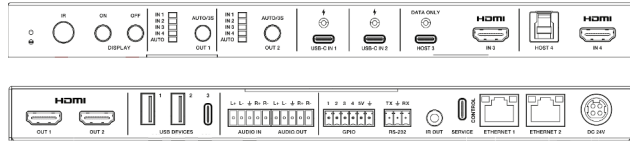
Dual Gigabit Ethernet ports with IEEE 802.1X authentication and VLAN support provide secure network integration. The system can be controlled through front-panel buttons, RS-232, TCP/IP or a Web GUI and can manage external devices through CEC, IR, RS-232, LAN and GPIO.

- **Four-Input Presentation Switching:** Connects two HDMI and two USB-C sources to a unified meeting-room presentation system.
- **Dual HDMI Outputs:** Distributes the selected video signal to two displays or AV destinations simultaneously.
- **4K@60Hz 4:4:4 Video:** Supports Ultra HD video with full color information for clear text, detailed graphics and accurate color reproduction.
- **Single-Cable USB-C Connectivity:** Carries video, USB data, Ethernet and charging through one USB-C connection for compatible BYOD devices.
- **USB-C Charging:** Provides up to 100W of total charging power, with up to 50W available for each compatible USB-C source device.
- **USB 3.2 Gen 1 KVM:** Supports USB data rates up to 5Gbps and enables compatible peripherals to be shared between connected host devices.
- **Local USB Hub:** Provides USB-C and USB-A connections for cameras, speakerphones, storage devices, keyboards, mice and other compatible peripherals.
- **Automatic Source Selection:** Detects active video signals and 5V status to automatically select an available source.
- **Fast Manual Switching:** Allows users to select sources quickly through the front panel or connected control systems.
- **Complete Room Automation:** Supports automatic display power control and external device management for simplified room startup and shutdown.
- **Audio Embedding & Audio De-Embedding:** Inserts balanced or unbalanced analog audio into the selected HDMI or USB-C audio path. Extracts audio from the selected HDMI or USB-C signal for connection to external amplifiers, DSPs or recording equipment.
- **Advanced EDID Management:** Helps optimize video and audio compatibility between connected sources and display devices.
- **Custom Welcome Screen:** Allows a user-defined image to be displayed during system startup or as a room identification screen.
- **Custom No-Signal Image:** Displays a user-defined graphic when no active input signal is detected.
- **Dual Gigabit Ethernet:** Provides network connectivity for the switcher and compatible USB-C devices.
- **Secure Network Access:** Supports IEEE 802.1X authentication and VLAN configuration for integration with managed corporate networks.
- **IR Learning:** Learns infrared commands from compatible devices for integrated display and equipment control.
- **External Device Control:** Controls compatible equipment through CEC, IR, RS-232, LAN and GPIO interfaces.
- **Flexible System Management:** Supports front-panel, RS-232, TCP/IP and browser-based Web GUI control.

SC-KVM0402E-UC

4K KVM Switcher

Model Number:#2308262203



Technical Specifications

Input and Output	
Inputs	2 x HDMI 2.0b Type A (19-pin female) with USB-C data only and USB 3.0 Type-B Host 2 x USB-C (DP 1.4a compliance) (Data & Video & Audio) 1 x L/R AUDIO IN (5-pin 3.5mm phoenix connector) LPCM 2CH (sample rate 32~192kHz)
Outputs	2 x OUT (HDMI Type A, 19-pin female) 1 x USB DEVICE (USB-C, 24-pin female) 2 x USB DEVICE (USB-A, 9-pin female) 1 x L/R AUDIO OUT (5-pin 3.5mm phoenix connector) LPCM 2CH (sample rate 32~192kHz) 1 x GPIO [6-pin 3.5mm phoenix connector] 1 x IR Output - IR Frequency: 20K-60KHz, IR Level: 5Vp-p
Inputs Resolution	Up to 4K2K@60Hz with 24-bit RGB/YCBCR 4:4:4
Outputs Resolution	Up to 4K2K@60Hz with 24-bit RGB/YCBCR 4:4:4
Control Ports	1 x RS-232 [3-pin 3.5mm phoenix connector] 1 x IR OUT [3.5mm stereo mini-jack] 2 x LAN [RJ45 connector] 1 x GPIO [6-pin 3.5mm phoenix connector] 1 x SERVICE [USB-C, FW update port]
General Features	
Video Bandwidth	18Gbps
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color	8/10/12bit - 8-bit (4K@60Hz, 4:4:4)
HDCP	2.3/2.2 and 1.4
Audio Formats	HDMI™/USB-C IN, HDMI™ OUT: LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS- HD Master Audio, DSD
Management Features	
Management and Control	2 x RJ45 Network (TCP/IP), WEB GUI, RS232 (3pin Phoenix) with API
Others	
Power Connection	Input: AC 100-240V 50/60Hz, Output: DC 24V/7.5A (US/EU standard, CE/FCC/UL certified)
Working Temperature	32 - 104°F / 0 - 40°C
Humidity Range	20 - 80% RH (no condensation)
Storage Temperature	-4 - 140°F / -20 - 60°C
Dimensions	270mm × 133mm × 20mm - Width/Depth/Height, Metal Enclosure
Weight	890 g
Power Value/Consumption	41W (without USB-C charging); 149W (with 100W USB-C charging)
Mounting	Desktop / Optional Rack Mount
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Certifications	
EU/USA	CE/FCC/UL
Package Details	
Package Contents	1 x 4x2 HDMI™ and USB-C Huddle Room Switcher 1 x 24V/7.5A Power Supply 1 x IR Blaster Cable (1.5m) 1 x 3pin-3.5mm Phoenix Connector (male) 2 x 5pin-3.5mm Phoenix Connector (male) 1 x 6pin-3.5mm Phoenix Connector (male) 4 x Rubber Foot 2 x Mounting Ear 4 x Machine Screw (M3*5, for rubber feet) 4 x Machine Screw (KM3*6, for mounting ears) 1 x User Manual