# SWT3-31-HU

3x1 4K60 USB-C/HDMI Switcher

| HDMI | 4K/60 UHD (4:4:4) | 4K HDR | HDCP 2.2 Compatible



SWT3-31-HU is a high-performance auto-switcher with one USB-C and two HDMI/USB inputs and HDMI output. The connected USB peripherals, such as a room camera and microphone, are switchable for use of the active USB host, for convenient hybrid meeting operation with both room and online participants

## FEATURES

Hybrid-meeting Collaborative Switching - Controllable coupled-signals switching of both AV and USB host inputs, for concurrent connection with AV output and space USB devices, allows collaborative hybrid meeting where multiple meeting participants are switched to share their content with both room and online meeting participants

BYOD Ease and Convenience - Connect any DP-Alt-Mode-capable USB-C device as an AV presentation source, while providing the connected device with USB 2.0 and Ethernet connection, and (if PD-2.0-capable) up to 60 watts of power, via a single USB-C cable connection only

HDMI Signal Switching - HDCP 2.3 compliant, supporting deep color, x.v.Color™, CEC, HDMI uncompressed audio channels, Dolby TrueHD, DTS-HD, 2K, 4K, and 3D as specified in HDMI 2.0

USB 3.2 Switching - USB 3.2 signals switching, enables high data-rate connection between active USB host and space USB devices, such as 4K camera, high-quality audio devices, and HID (Human Interface Devices) mouse or keyboard devices

HDMI Mirroring - Active USB-C or HDMI input signal is mirrored to loop output port for connecting a local monitor or adding an additional unit in a daisy chain

I-EDIDPro™ Kramer Intelligent EDID Processing™ - Intelligent EDID handling, processing and pass-through algorithm that ensures Plug and Play operation

Audio De-embedding - The digital audio signal passing-through to the output, is de-embedded, converted to an analog signal and sent to the stereo balanced analog audio output. This enables playing the audio on a locally connected professional audio system (such as DSP) and speakers, in parallel to playing it on the speakers connected to the AV acceptor device (such as TVs with speakers)

Auto Switcher Ease of Use - Automatically plays the signal of the plugged source on the connected display with either last-connected or priority-based pre-selection

Display On/Off Operation - Meeting presentation is simplified by manually or automatically turning ON/OFF a CEC–enabled or serially-controlled display when the presentation source is plugged in / unplugged with user–defined shut–down delay

Simple Control - Remote IP-controller connection, browser operation webpage, local panel buttons, or remotely connected contact-closure buttons, for easy and fully flexible user ports selection, signals routing, and switcher control

Built–in Intelligent Control Gateway - Remote IP–driven intelligent control of connected AV, USB and sensor devices via CEC, RS–232, IR or I/O. Eliminating the need for an external control gateway, this feature reduces installation complexity and costs, to enable easy integration with control systems, such as Kramer Control

Secured Network Connection - Standard IT-grade 802.1x authentication for secured IT LAN connectivity

Comprehensive Management - Local panel indication LEDs to facilitate easy local maintenance and troubleshooting. Remote IP–driven firmware upgrade and management via user–friendly embedded web pages and optional whole site management system, ensure lasting and field proven deployment

Easy and Elegant Installation - PoE powering via LAN port connection, and MegaTOOLS™ fan-less enclosure for dropped-ceiling mounting, or side-by-side mounting of 2 units in a 1U rack space with the recommended rack adapter, for easy switcher deployment

Convenient Display Power On/Off Control - Simply press the DISPLAY ON button to toggle on and off the power of the connected CEC-enabled display, with awareness of display power on/off status via button LED indication

Easy Online Meeting System Integrated Connectivity - Built-in flexible auto-disconnection operation of USB devices, such as space cameras and soundbars, enable detection of BYOD presenter disconnection by online meeting systems for their auto-activation, convenient integration, and ease of end-user operation according to space changing hybrid sessions needs

## TECHNICAL SPECIFICATIONS

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| Inputs | 1 DP Alt Mode & PD 3.0 USB-C: On a USB type–C female connector |
| | 2 HDMI: On an HDMI female connector |
| Outputs | 1 HDMI: On an HDMI female connector |
| | 1 HDMI Loop: On an HDMI female connector |
| | 1 Balanced Stereo Audio Line: On 5–pin terminal block connector |
| | 1 IR: On a 3.5mm mini jack for IR extension |
| Ports | 1 USB 3.2 Host: On a USB–C female connector |
| | 2 USB 3.2 Host: On a USB–B female connector |
| | 4 USB 3.2 Device: On USB type–A female connectors |
| | 1 Ethernet: On an RJ–45 female connector for LAN connection |
| | 1 RS–232: On a 3–pin terminal block |
| | 2 GPIO: On a 2–pin terminal block |
| Video | Max Data Rate: 18Gbps bandwidth (6Gbps per graphic channel) |
| | Max Resolution: 4K@60Hz (4:4:4) resolution |
| | Content Protection: HDCP 2.3 |
| | HDMI Support: Deep Color, 3D, HDR as specified in HDMI 2.0b |
| USB Features | USB 3.2 Data Rate: Up to 10Gbps |
| | Integrated USB Hubs: 1 |
| | Standards Compliance: USB 3.2 GEN 2, 2.0 and 1.1 |
| Analog Audio | Max Output Signal Level: 14.5dBu |
| | Impedance: 500Ω |
| | Bandwidth: 20Hz — 20kHz |
| | Crosstalk: –114dB |
| | THD + N: 0.005% @1kHz at nominal level |
| | S/N Ratio: 85dB, 20Hz — 20kHz |
| | Coupling: DC |
| Power | Power Adapter:<br>Source: 20V DC: 6A (included) |
| | Note: For HW Rev 02 and higher, 20V PSU (power supply unit) is included (replacing the 12V PSU) |
| | Consumption: 4.4A |
| | Max. Power: 84W |
| | Power Adapter:<br>Source: 12V DC 2A (optional) |

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| | Consumption: 1.8A<br><br>Max. Power: 22W<br><br>PoE<br>Consumption: 144mA<br><br>Max. Power: 7.8W<br><br>USB-C Charging<br>Max. Power: 60W<br><br>Note: When powered with 20V power supply only<br><br>Compliance: PD 3.0<br><br>USB Device Charging<br>Max. Total Current: 2A |
| Environmental Conditions | Operating Temperature 0° to +40°C (32° to 104°F)<br><br>Storage Temperature −40° to +70°C (−40° to 158°F)<br><br>Humidity 10% to 90%, RHL non−condensing |
| Regulatory Compliance (Standards Compliance) | Safety CE, UL<br><br>Environmental RoHs, WEEE |
| Enclosure | Size Mega Tool<br><br>Type Aluminum<br><br>Cooling Convection Ventilation |
| Product Dimensions | 19.00cm x 11.60cm x 2.70cm (7.48" x 4.57" x 1.06" ) W, D, H |
| Product Weight | 0.6kg (1.2lbs) approx |
| Shipping Dimensions | 34.50cm x 16.50cm x 5.20cm (13.58" x 6.50" x 2.05" ) W, D, H |
| Shipping Weight | 1.2kg (2.6lbs) approx |

