



Pro AV/IT Integrator Series™ 2x1 4K60Hz HDMI/USB-C KVM Switcher with USB 3.2 Hub, PD Charging, Audio Extraction & RS232 Control

2x1 KVM Switcher with HDMI + USB-C USB 3.0 Hub

The Comprehensive CSW-HC12KVMC is a 2x1 HDMI/USB-C KVM Switcher with hotkey switching capabilities. It supports resolutions up to 4K@60Hz 4:4:4 8-bit and can transmit USB 3.2 signals up to 5Gbps for KVM functionality. The CSW-HC12KVMC includes 1x HDMI input port and 1x USB-C input port with an additional USB-C charging port to supply power to the connected USB-C device.

The CSW-HC12KVMC features a virtual interaction function, enabling it to automatically wake up a connected PC in standby mode, thereby reducing switching time. It also supports direct switching via front panel buttons, IR remote, and hotkeys through a keyboard/mouse connected to the designated USB port. It is compatible with various operating systems, including Windows, Mac OS, and Linux, requiring no drivers and offering simple plug-and-play operation.



Auto & Manual Switching

The CSW-HC12KVMC offers both manual and automatic switching capabilities, ensuring a seamless experience when transitioning between HDMI, USB-C. With the “First-In, Last-Out” rule, the switcher intelligently detects and prioritizes the most recently activated input, eliminating the need for manual intervention during the switching process.

Full Featured USB Type-C Connectivity

The CSW-HC12KVMC takes full advantage of USB-C connections, allowing 4K video, audio, USB data, and up to 100W of power to all travel through a single cable. This all-in-one setup means laptops do not need separate connections for power or data, making it easier for users with just one cable.

Supports 4K HD Video up to 4K@60Hz 4:4:4 18G

The Comprehensive CSW-HC12KVMC is a highly versatile USB-C and HDMI switcher that excels at transmitting 4K resolutions up to 4K@60Hz, 4:4:4. This exceptional capability makes it an ideal solution for a wide range of applications, including classrooms, meeting rooms, huddle spaces, and various AV installations that require the sharing and distribution of true 4K signals.

BYOM Convenience

Bring Your Own Meeting (BYOM) rooms provide collaborative spaces for both in-person and remote participants without needing complex setups with dedicated computers, switchers, or control systems. In BYOM rooms, users can bring their own laptops and connect to USB cameras and microphones in the room. The CSW-HC12KVMC collaboration switcher enables USB devices to work with traditional AV equipment, allowing users to switch between laptops or other sources and access USB-connected devices in the room easily.

Charge your Laptop, Tablet or Phone While Connected

With the convenient USB-C input on the CSW-HC12KVMC, you can effortlessly connect your device without the worry of battery depletion. Say goodbye to the hassle of carrying chargers or running out of power during important presentations or video conferences. This versatile switcher supports impressive charging capabilities of up to 100W, ensuring that your devices, be it a smartphone or a laptop, receive a reliable power supply while you focus on delivering your content or engaging in virtual meetings. Whether you’re presenting in a professional setting or participating in remote collaborations, the CSW-HC12KVMC keeps your devices charged and ready to perform, providing you with uninterrupted productivity and peace of mind.

Versatile USB 3.2 Hub and Switching

Take advantage of the USB 3.0 hub and switching capabilities of the CSW-HC12KVMC. This versatile switcher allows you to seamlessly incorporate your USB devices, such as webcams, mic, capture devices, PTZ camera, speakerphone, or sound bar, into your setup. With the ability to switch between two host PCs, you can easily toggle control and access between different computers, maximizing flexibility and convenience.

By connecting your USB devices to the CSW-HC12KVMC, you can streamline your audio and video setup, creating a seamless and integrated environment for presentations, video conferencing, and collaborative work. Whether you need to switch between different host PCs or utilize multiple USB devices simultaneously, this switcher provides the functionality you need to effortlessly manage your setup.

SWITCHERS

CSW-HC12KVMC



Pro AV/IT Integrator Series™ 2x1 4K60Hz HDMI/USB-C KVM Switcher with USB 3.2 Hub, PD Charging, Audio Extraction & RS232 Control

Compatible with Interactive Whiteboards including Promethean®

This flexible USB extender is compatible with a wide range of interactive whiteboards, including the renowned Promethean® Interactive Whiteboards.

Simplified Control at Your Fingertips

Controlling the Comprehensive CSW-HC12KVMC is a breeze, thanks to its versatile range of control methods. You can easily manage the device using the push buttons located on the front panel, the IR remote control, or hotkeys control. Furthermore, the CSW-HC12KVMC offers an API that allows for seamless integration with third-party control systems through RS232 control or IP control. With these flexible control options, you have the freedom to conveniently select sources for each display according to your specific preferences.

A Must Have Device for Every AV Space

The CSW-HC12KVMC is perfectly suited for a wide range of environments, including courtrooms, classrooms, conference rooms, and any other setting where there is a need to switch audio-visual devices to two different displays. This versatile switcher ensures smooth and efficient distribution of content, enabling seamless transitions between displays and enhancing the overall audio-visual experience.

Peace of Mind in Every Connection and Quality You Can Count On

Since 1974, Comprehensive has been a trusted manufacturer of top-notch commercial-grade solutions for AV and IT professionals. This product upholds that longstanding tradition with its use of premium materials, components, and rigorous quality control measures, guaranteeing years of reliable and hassle-free usage. Additionally, all components are supported by Comprehensive's 3 Year Warranty, providing you with the confidence that this product will continue to perform flawlessly for many years ahead.

Features

- HDCP 2.3 and DP 1.4 compliant
- Supports USB-C DP Alt Mode
- Supports Ultra-wide Screen, resolution up to 4K@60Hz, 2K@60Hz/144Hz as specified in HDMI 2.0
- HDR, HDR10, HDR10+, Dolby Vision, HLG pass-through
- Using only 1 set of a keyboard, mouse and monitor to control 2 computers
- Supports video fast switching, and keyboard/mouse seamless switching
- Each input port has an EDID emulator to provide the correct information for the PC
- Supports hot plug, disconnect, or connect devices to the KVM at any time
- Switching via front panel buttons, keyboard/mouse hotkeys, IR remote control, and RS-232 commands
- Supports auto and manual switching
- Input supports 1x HDMI port and 1x USB-C port
- With USB-C charging port, supporting PD3.0 charging 100W (PD charger not included)
- Advanced hardware/software design and production ensure zero latency
- The integrated USB 3.0 ports allow you to share USB peripherals like printer, scanner, webcam, and hard disk between computers with data transfer rate up to 5Gbp/s.
- Compact design for easy and flexible installation
- 3 Year Warranty

Please note: The CSW-HC12KVMC will require an 100W PD charger in order to charge laptop, Chromebook and iPads. The PD Charger is not included and sold separately: CPWR-2QC100W

What is this product used for? (primary use):

- USB-C & HDMI Switching between 2 sources to 1 display.
- USB 3.0 Sharing: Allows 2 PCs to share and take advantage of a room's Webcam, Video bar, mouse, keyboard.
- Extract Audio signal off any HDMI source to digital optical or analog stereo L/R audio out.
- Instant/ Seamless Video switching, elimination of black screens and delayed video.
- RS232 Controllable for flexible and easy control management.

CSW-HC12KVMC



Pro AV/IT Integrator Series™ 2x1 4K60Hz HDMI/USB-C KVM Switcher with USB 3.2 Hub, PD Charging, Audio Extraction & RS232 Control

Specifications

I/O Connections

Inputs:

- 1x HDMI input [Type A, 19-pin female]
- 1x USB-C [AV signal input]
- 1x USB-C [Power input]

Outputs:

- 1x HDMI output [Type A, 19-pin female]
- 1x L/R audio output [3.5mm Stereo Mini-jack]

Controls:

- 1x RS-232 [3pin-3.81mm phoenix connector]
- 1x IR EXT [3.5mm Stereo Mini-jack]
- 1x USB HOST [USB 3.0 Type B, 11-pin female]
- 4x USB DEVICES [USB 3.0 Type A, 13-pin female]

Technical

HDMI Compliance: HDMI 2.0

DP Compliance: DP 1.4

USB Compliance: USB 3.2

HDCP Compliance: HDCP 2.3

Video Bandwidth: 18Gbps

USB Bandwidth: Up to 5Gbps

HDMI Input Resolution: Up to 4K@60Hz, 2K@60Hz/144Hz

HDMI Output Resolution: Up to 4K@60Hz, 2K@60Hz/144Hz

Color Space: RGB, YCbCr 4:4:4, YCbCr 4:2:2, YUV 4:2:0

Color Depth: 8/10/12-bit

HDR: HDR10, HDR10+, Dolby Vision, HLG

Audio Formats

HDMI IN/OUT: LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DTS:X, DSD

L/R OUT: PCM 2.0CH

IR Level: 5Vp-p

IR Frequency: Fixed frequency 38KHz

Audio Latency: No Latency

Video Latency: No Latency

Power & Regulatory

Power Input

Input: AC 100 - 240V 50/60Hz

Output: DC 12V/1A

Power Consumption: Typical value: 7.8W

Standby mode: 0.6W

ESD Protection: IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

Regulatory: (US/EU standard, CE/FCC/UL certified)

Prop 65 Compliant: No

Chassis and Environmental

Construction: Metal Enclosure

Color: Black

Dimensions: 175mm [W] x 100mm [D] x 30mm [H]

Operating Temperature: 32 - 104°F / 0 - 40°C

Operating Humidity: 20 - 90% RH (no condensation)

Storage Temperature: -4 - 140°F / -20 - 60°C

Weight: 3lbs

Package Contents

1x CSW-HC12KVMC (2x1 HDMI/USB-C KVM Switcher)

1x IR Remote

1x 3pin-3.81mm Phoenix Connector (male)

1x Fixed Frequency 38KHz IR Receiver Cable (1.5 meters)

1x USB Cable (USB 3.0, AM to BM, 1.8 meters)

1x USB Type-C Cable (USB 3.2 GEN2, male to male, 1 meters)

1x HDMI Cable (male to male, 1.5 meters)

2x Mounting Ears

4x Machine Screws (KM3*4)

1x 12V/1A Multinational Locking Power Supply

1x User Manual

Warranty

3 years

SWITCHERS

CSW-HC12KVMC