



Pro AV/IT Integrator Series™ 4x4 HDMI 4K 60Hz 4:4:4 Matrix Switcher with Control & HDMI Extension up to 230ft

Flexible 4K HDMI 4x4 Matrix Switching

The Comprehensive CSW-404MEXTK is a high-performance 18Gbps 4x4 HDMI Matrix Switcher Extender designed to connect four HDMI sources to eight displays. It boasts four HDMI outputs, and each output is mirrored to simultaneously provide a CAT Cable output. This device supports video transmission at resolutions of up to 1080p Full HD and 4Kx2K@60Hz 4:4:4, ensuring stunning visual quality. It also supports popular HD digital audio formats like LPCM 7.1CH, Dolby True HD, Dolby Digital Plus, and DTS-HD Master Audio.

For multi-room connectivity, simply connect a CAT Receiver to each of the CAT Cable outputs, extending the HDMI signal up to an impressive distance of 230ft/70m. Each HDMI output can independently downscale 4K2K signals to 1080P if needed. The product also incorporates a convenient one-way IR matrix function.

You have various control options at your disposal, including front panel buttons, an IR remote, RS-232, LAN, and Web GUI, providing flexibility and ease of use. With the Comprehensive CSW-404MEXTK, you can enjoy seamless and versatile HDMI switching and extension for your audiovisual setup.



HDMI UHD 4K @60Hz 4:4:4 Extension

The CSW-404MEXTK features four Cat5/6 ports that mirror each HDMI output port, making it perfect for extending HDMI signals to remote locations using Cat5/6 cables, reaching distances of up to 230ft. These Cat5/6 ports also support 4K@60Hz 4:4:4 UHD resolution, which offers four times the pixel density of 1080p, resulting in remarkably sharp images, enhanced details, and lifelike textures. This allows you to enjoy a truly cinematic experience on your 4K display. With the CSW-404MEXTK, you can effortlessly enjoy your videos anywhere within a room or building, thanks to its exceptional signal extension capabilities.

A Must Have Device for Every AV Space

The Comprehensive CSW-404MEXTK is perfectly suited for a wide range of environments, including courtrooms, classrooms, casinos, sports bars, supermarkets, shopping malls, churches, data control centers, conference rooms, education/training facilities, luxury homes, home theaters, and any other location requiring a solution for a multiple HD display setup. It is an ideal choice for switching and extending audio-visual devices from a remotely located HDMI source device in various settings.

Simplified Control at Your Fingertips

Controlling the Comprehensive CSW-404MEXTK 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 the intuitive Web GUI control. Furthermore, the CSW-404MEXTK 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.

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

- HDMI 2.0b and HDCP 2.2/1.x Compliant
- Video resolution up to 4K2K@60Hz (YUV 4:4:4) on all HDMI & CAT ports
- 4 HDMI inputs, 4 HDMI & CAT mirrored outputs
- HDMI ports support 18Gbps lossless uncompressed video bandwidth
- Supports 4K or 1080P Down Scaler for each output port
- HDR, HDR10, HDR10+, Dolby Vision, HLG are supported
- CAT output can extend the transmission distance up to 230ft/70m via a single CAT6 cable
- HDMI audio pass-through up to 7.1CH HD audio (LPCM, Dolby TrueHD and DTS-HD Master Audio)
- Advanced EDID management and CEC control are supported
- 12V POC on all CAT ports
- Support one-way IR matrix function
- Control via front panel buttons, IR remote, RS-232, LAN and Web GUI
- Front panel buttons trigger both CEC and RS232 commands for display control
- Durable metal enclosure
- 3 Year Warranty

CSW-404MEXTK



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Applications

- Classrooms and auditoriums: A credenza or lectern-based AV system for resident sources, plus wireless connectivity for a participant's laptop or tablet.
- True matrix routing and distribution of HDMI signals: The CSW-404MEXTK excels in providing seamless routing and distribution of HDMI signals, allowing for versatile connectivity and control over multiple display setups.
- A/V routing in environments with demanding control systems: With its comprehensive control options and compatibility with third-party control systems, the CSW-404MEXTK is well-suited for audio-visual routing in environments that require advanced control capabilities.
- Ideal for houses of worship: The CSW-404MEXTK is an excellent choice for houses of worship, enabling reliable and flexible routing of A/V signals for various multimedia applications during services, presentations, and events.
- Corporate video conferencing: The CSW-404MEXTK caters to the needs of corporate environments by facilitating efficient video conferencing setups. It allows for seamless integration of multiple HDMI sources and displays, enhancing collaboration and communication during virtual meetings.

Specifications

I/O Connections

Matrix Inputs:

4x HDMI Type A [19-pin female]

Outputs:

4 x HDMI Type A [19-pin female]

4x CAT port [RJ45]

4x IR OUT [3.5mm Stereo Mini jack]

Controls:

1x TCP/IP [RJ45]

1x RS-232 [3-pin phoenix connector]

Cat Receivers Inputs:

1x IR IN [3.5mm Stereo Mini jack]

1x CAT port [RJ45]

Output:

1x HDMI Type A [19-pin female]

Control:

1x SERVICE [Micro USB, Update port]

Technical

HDMI Compliance: HDMI 2.0b

HDCP Compliance: HDCP 2.2

Video Bandwidth: 18Gbps

HDMI Input Resolution: Up to 4K@60Hz 4:4:4 HDR10, Dolby Vision

HDMI Output Resolution: Up to 4K@60Hz 4:4:4 HDR10, Dolby Vision

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

Max Transmission Distance: 230ft Cat6/6A cable

HDMI Audio Formats: Supports Dolby Atmos, Dolby TrueHD, Dolby

Digital Plus, Dolby Digital, DTS-X, DTS-HD Master Audio, DTS 5.1,

2 - 8Ch PCM 32-192kHz 16-24 bits; 2-8Ch PCM 32-192kHz 16-24 bits

Power & Regulatory

Power Input: 12V DC 2.5A

Power Consumption: 19.68W

ESD Protection: Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)

Regulatory: FCC, CE, RoHS Compliant

Prop 65 Compliant: No

Chassis and Environmental

Construction: Metal Enclosure

Color: Black

Dimensions (W*H*D):

Matrix: 320mm (W) x 100mm (D) x 36mm (H) (12.5" x 4" x 1.4")

Receiver: 61mm (W) x 88mm (D) x 18mm (H) (2.4" x 3.5" x .7")

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

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

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

Weight: Matrix: 915g, Receiver: 155g

Package Contents

1x CSW-404MEXTK 18Gbps 4x4 HDMI Matrix Switcher

4x CAT Receiver

1x Matrix IR Remote

1x 12V2.5A Power Supply

1x RS-232 serial Cable (1.5 meters, male to female head)

1x 3-pin Phoenix Connector

4x IR Blaster Cable (1.5 meters)

4x IR Receiver Cable (1.5 meters)

10x Mounting Ear (Matrix and Receiver)

1x User Manual

Other

Diagnostic Indicators: Power and Status

UPC: 808447085907

Product Part Number: CSW-404MEXTK

Warranty: 3 years

SWITCHERS

CSW-404MEXTK