HD-MD6X2-4K-E

6x2 HDMI® Switcher

- *6x2 ultra high-definition 4K/60 digital AV switcher*
- *For standalone use, or as part of a fully integrated Crestron® system*
- *Fully operable using front panel controls, a Web browser, or a Crestron control system*
- *Simplified setup through the front panel OLED display or through a web browser*
- *Six HDMI® inputs and two independent HDMI outputs*
- *DVI and DisplayPort™ Multimode compatible*
- *QuickSwitch HD™ technology manages HDCP keys for fast, reliable switching*
- *Comprehensive built-in EDID configuration tools*
- *Handles Dolby® TrueHD, DTS HD® formats, and uncompressed 7.1 linear PCM audio*
- *High-speed Ethernet LAN connection*
- *Single-space 19 in. rack-mountable design*
- *Universal 100-240 V external power pack included*

The Crestron® HD-MD6X2-4K-E is a simple to use, ultra high-definition signal switcher with six HDMI® inputs and two HDMI outputs. It handles Full HD 1080p, Ultra HD, 2K, and 4K video signals with support for HDCP, 3D, Deep Color, and high-bitrate 7.1 audio. Operation is enabled using the front panel controls, a Web browser, or a Crestron control system. Simplified setup is facilitated through the front panel OLED display or a Web browser.

4K Ultra HD

4K video support provided by the HD-MD6X2-4K-E is essential for use with the latest generation of UHD and 4K DCI displays and sources, as well as computers and monitors with native resolutions beyond 1080p and WUXGA.

QuickSwitch HD™ Technology

Digital media signals are typically encrypted to protect against unauthorized viewing. After authenticating displays or signal processors, a source device must issue a key before delivering an output signal. Crestron QuickSwitch HD technology manages these keys to ensure fast, reliable switching and immunity to display blackouts caused by key authentication.

EDID Format Management

To ensure that every source gets displayed at its optimal resolution and format, the HD-MD6X2-4K-E provides comprehensive management of EDID (Extended Display Identification Data) information. For applications requiring custom configuration, the HD-MD6X2-4K-E allows for easy assessment of each device's format and resolution capabilities with the ability to configure signals appropriately.

1RU Rack-Mountable

The HD-MD6X2-4K-E can be placed on a shelf, or mounted in a 19 in. EIA equipment rack using the rack ears provided. When rack-mounted, it occupies a single rack space. The front panel label strips can be customized using Crestron Engraver software or standard 3/8 in. tape labels, allowing for the clear designation of each input and output. Inputs and outputs may also be designated by name to appear on the OLED display.

Specifications

Features

6x2 digital AV switcher, QuickSwitch HD™ technology, local or Web browser setup and control, Crestron® controllable

Video

Input Signal Types	HDMI® w/Deep Color, 3D, & 4K (DVI & DisplayPort™ Multimode compatible[1])
Output Signal Types	HDMI w/Deep Color, 3D, & 4K (DVI compatible[1])

Maximum Resolutions

Scan Type	Resolution	Frame Rate	Color Sampling	Color Depth
Progressive	4096x2160 4K DCI & 3840X2160 Ultra HD	24 Hz	4:4:4	30 bit
		30 Hz	4:4:4	24 bit
		30 Hz	4:2:2	36 bit
		60 Hz	4:2:0	24 bit
	2560x1600 WQXGA	60 Hz	4:4:4	36 bit
	1920x1080 HD1080p	60 Hz	4:4:4	36 bit
Interlaced	1920x1080 HD1080i	30 Hz	4:4:4	36 bit

> **NOTE:** Common resolutions are shown; other custom resolutions are supported at pixel clock rates up to 300 MHz.

Audio

Input Signal Types	HDMI (DisplayPort Multimode compatible[1])
Output Signal Types	HDMI
Formats	Dolby Digital®, Dolby Digital EX, Dolby Digital Plus, Dolby® TrueHD, DTS®, DTS-ES, DTS 96/24, DTS-HD High Res, DTS-HD Master Audio™, LPCM up to 8 channels

Communications

Ethernet	10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP, Web browser setup and control, Crestron control system integration
USB	For factory use only
HDMI	HDCP, EDID

> **NOTE:** Supports management of EDID.

Connectors

INPUT 1-6	(6) 19-pin Type A HDMI female; HDMI digital video/audio inputs; Also supports DVI and DisplayPort Multimode[1]
OUTPUT 1-2	(2) 19-pin Type A HDMI female; HDMI digital video/audio output; Also supports DVI[2]
LAN	(1) 8-wire RJ45 female; 10Base-T/100Base-TX Ethernet port
24V DC 0.75 A	(1) 2.1 x 5.5 mm DC power connector; 24 VDC power input; PW-2407WU power pack included
SERVICE	(1) USB Type A female; for factory use only

Display

Display Type	2x20 character alphanumeric OLED
Functions	Displays setup and configuration menus, signal information, customizable input names

Controls & Indicators

MENU	(1) push button, opens the setup menu
▲ ▼ ◀ ▶	(4) push buttons, for menu navigation and parameter adjustment
ENTER	(1) push button, applies a change
BACK	(1) push button, steps menu back one level
EXIT	(1) push button, exits the menu
PWR	(1) bicolor green/amber LED, indicates operating power supplied from the power pack, turns amber while booting and green when operating
INPUT 1-6	(6) push buttons for manual input selection, and (4) bicolor green/amber LEDs to indicate the current active input and signal presence at each corresponding input
OUTPUT 1-2	(2) push buttons for output selection, and (2) bicolor green/amber LEDs to indicate sink detection and signal presence at each corresponding HDMI output
LAN	(2) LEDs, amber LED indicates Ethernet activity, green LED indicates Ethernet link status

Power Requirements

Power Pack	0.75 A @ 24 VDC; 100-240 VAC, 50/60 Hz power pack, model PW-2407WU included

Environmental

Temperature	32° to 104° F (0° to 40° C)
Humidity	10% to 90% RH (noncondensing)

Enclosure

Chassis	Metal, black finish, vented sides
Front Panel	Metal, black finish with polycarbonate label overlay
Mounting	Freestanding or 1U 19 in. rack-mountable (adhesive feet and rack ears included)

Dimensions

Height	1.71 in. (44 mm)
Width	18.96 in. (481 mm); 17.29 in. (439 mm) without rack ears
Depth	10.83 in. (275 mm)

Weight

4.10 lb (1.2 kg)

Models
HD-MD6X2-4K-E

Included Accessories
PW-2407WU
Wall Mount Power Pack, 24 VDC, 0.75A, 2.1 mm, Universal

Available Accessories
CBL-HD-1.5
Crestron® Certified HDMI® Interface Cable, 18 Gbps, 1.5 ft (0.45 m)

CBL-HD-12
Crestron® Certified HDMI® Interface Cable, 18 Gbps, 12 ft (3.6 m)

CBL-HD-20
Crestron® Certified HDMI® Interface Cable, 18 Gbps, 20 ft (6.1 m)

CBL-HD-3
Crestron® Certified HDMI® Interface Cable, 18 Gbps, 3 ft (0.91 m)

CBL-HD-30
Crestron® Certified HDMI® Interface Cable, 10.2 Gbps, 30 ft (9.1 m)

CBL-HD-6
Crestron® Certified HDMI® Interface Cable, 18 Gbps, 6 ft (1.8 m)

CBL-HD-DVI-1.5
Crestron® Certified HDMI® to DVI Interface Cable, 1.5 ft

CBL-HD-DVI-12
Crestron® Certified HDMI® to DVI Interface Cable, 12 ft

CBL-HD-DVI-20
Crestron® Certified HDMI® to DVI Interface Cable, 20 ft

CBL-HD-DVI-3
Crestron® Certified HDMI® to DVI Interface Cable, 3 ft

CBL-HD-DVI-30
Crestron® Certified HDMI® to DVI Interface Cable, 30 ft

CBL-HD-DVI-6
Crestron® Certified HDMI® to DVI Interface Cable, 6 ft

CBL-HD-LOCK-16
Locking High-Speed HDMI® Cable, 10.2 Gbps, 16 ft (4.8 m)

CBL-HD-LOCK-2
Locking High-Speed HDMI® Cable, 10.2 Gbps, 2 ft (0.6 m)

CBL-HD-LOCK-4
Locking High-Speed HDMI® Cable, 10.2 Gbps, 4 ft (1.2 m)

CBL-HD-LOCK-8
Locking High-Speed HDMI® Cable, 10.2 Gbps, 8 ft (2.4 m)

MPI-WP150-120
Media Presentation Wall Plate – International Version – HDMI® w/Mini-TRS Stereo Audio, White

MPI-WP150-122
Media Presentation Wall Plate – International Version – HDMI® w/Mini-TRS Stereo Audio, Anthracite

MP-WP152-A
Media Presentation Wall Plate - HDMI®, Almond

MP-WP152-B
Media Presentation Wall Plate - HDMI®, Black

MP-WP152-W
Media Presentation Wall Plate - HDMI®, White

Notes:

1. HDMI requires an appropriate adapter or interface cable to accommodate a DVI or DisplayPort Multimode signal. CBL-HD-DVI interface cables are available separately.

HD-MD6X2-4K-E

6x2 HDMI® Switcher

17.13 in.
(435 mm)

17.29 in.
(439 mm)

18.94 in
(481 mm)

1.71 in.
(44 mm)

10.83 in.
(275 mm)

1.63 in.
(42 mm)

CRESTRON.