

HD-DA2-4K-E

1-to-2 4K HDMI® Distribution Amplifier

- > Splits one HDMI® source to two outputs
- > Handles video resolutions up to 4K and Ultra HD
- > Handles 3D video and Deep Color
- > Handles Dolby® TrueHD, DTS-HD®, and uncompressed 7.1 linear PCM audio
- > HDCP compliant
- > Includes input and output sync indicators
- > No programming or control system required
- > Thin profile — less than one inch deep
- > Surface, shelf, or single rack rail mountable



The Crestron® HD-DA2-4K-E is a simple to use, high-performance distribution amplifier designed to split a single HDMI® signal to feed two separate displays, switchers, AV receivers, and other devices. 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. No programming or control system is required for operation.

The full line of Crestron HDMI DAs also includes the four-output [HD-DA4-4K-E](#) and the eight-output [HD-DA8-4K-E](#).

SPECIFICATIONS

Video

Input Signal Types: HDMI®, DVI^[1], DisplayPort Multimode^[1]

Output Signal Types: HDMI, DVI^[1]

Formats: HDMI w/Deep Color, 3D, & 4K; DVI; HDCP content protection support

Maximum Resolutions:

Scan Type	Maximum Resolution	Frame Rate	Color Sampling
Progressive	4096x2160 4K DCI	Up to 24 Hz	4:4:4
Progressive	3840x2160 Ultra HD	Up to 30 Hz	4:4:4
Progressive	2560x1600 WQXGA	Up to 60 Hz	4:4:4
Progressive	4096x2160 4K DCI	Up to 60 Hz	4:2:0 ^[2]
Progressive	3840x2160 Ultra HD	Up to 60 Hz	4:2:0 ^[2]
Interlaced	1920x1080 1080i30	Up to 30 Hz	4:4:4

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^[1]

Output Signal Type: 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™, up to 8ch PCM

Communications

HDMI: HDCP & EDID (does not pass CEC)

EDID: Mode selectable for COPY 1ST or DEFAULT:

- COPY 1ST copies the EDID from the device connected to OUTPUT 1 and sends it to the source connected to the INPUT^[3]
- DEFAULT = 720x480@60Hz, 1280x720@60Hz, 1920x1080@30Hz, 1920x1080@60Hz (preferred), and 2-channel linear PCM audio)

Connectors

INPUT: (1) 19-pin Type A HDMI female;

HDMI digital video/audio input;

Also supports DVI and DisplayPort Multimode^[1]

OUTPUT 1 – 2: (2) 19-pin Type A HDMI female;

HDMI digital video/audio outputs;

Also supports DVI^[1]

SERVICE: (1) USB Type Mini-B jack;

For factory use only

24VDC 0.75A: (1) 2.1 x 5.5 mm DC power connector;

24 Volt DC power input;

PW-2407WU power pack included

Controls & Indicators

PWR: (1) green LED, indicates operating power supplied via power pack

INPUT: (1) green LED, indicates a video signal at the HDMI input

OUTPUT 1 – 2: (2) green LEDs, indicate video signals at each corresponding HDMI output

EDID: (1) 2-position slide switch, selects EDID mode

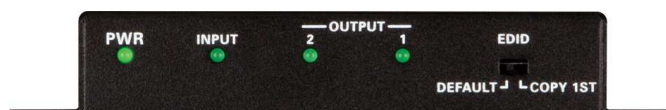
Power Requirements

Power Pack: 0.75 Amps @ 24 Volts DC;

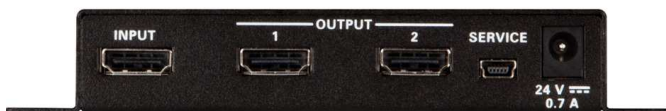
100-240 Volts AC, 50/60 Hz power pack, model PW-2407WU included

Power Consumption: 4 Watts typical

HD-DA2-4K-E 1-to-2 4K HDMI® Distribution Amplifier



HD-DA2-4K-E – Top View



HD-DA2-4K-E – Bottom View

Environmental

Temperature: 32° to 104°F (0° to 40°C)

Humidity: 10% to 90% RH (non-condensing)

Heat Dissipation: 13.6 BTU/Hr

Enclosure

Chassis: Metal, black finish, with (2) integral mounting flanges

Mounting: Freestanding, surface mount, or attach to a single rack rail

Dimensions

Height: 4.06 in (104 mm)

Width: 5.68 in (145 mm)

Depth: 0.87 in (23 mm)

Weight

0.78 lb (0.35 kg):

MODELS & ACCESSORIES

Available Models

HD-DA2-4K-E: 1-to-2 4K HDMI® Distribution Amplifier Available

Included Accessories

PW-2407WU: Wall Mount Power Pack 24VDC, 0.75A, Universal (Qty. 1 included)

Available Accessories

CBL-HD-LOCK: Locking High-Speed HDMI® Cables

CBL-HD: Crestron® Certified HDMI® Interface Cables

CBL-HD-DVI: Crestron® Certified HDMI® to DVI Interface Cables

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.
2. Support for 4K and UHD at 50/60 Hz with 4:2:0 color sampling will be enabled through a future firmware update.
3. Using the COPY 1ST mode, if the device connected to OUTPUT 1 is disconnected, the current EDID will be retained. Changing the device connected to OUTPUT 1 will not update the EDID at the INPUT until the EDID switch is moved to the DEFAULT position and then back to the COPY 1ST position.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

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