

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, Dolby Atmos®, 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.

For larger applications, please see the four-output [HD-DA4-4K-E](#) and the eight-output [HD-DA8-4K-E](#).

SPECIFICATIONS

Video

Input Signal Types: HDMI® w/Deep Color, 3D, & 4K (DVI & Dual-Mode DisplayPort 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 (Dual-Mode DisplayPort compatible^[1])

Output Signal Type: HDMI

Formats: Dolby Digital®, Dolby Digital EX, Dolby Digital Plus, Dolby® TrueHD, Dolby Atmos®, DTS®, DTS-ES, DTS 96/24, DTS-HD High Res, DTS-HD Master Audio™, LPCM up to 8 channels



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^[2]
- 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 Dual-Mode DisplayPort^[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

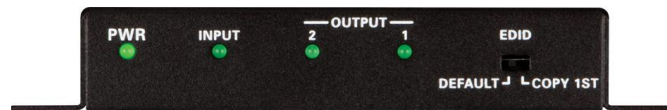
Power Requirements

Power Pack: 0.75 Amps @ 24 Volts DC;

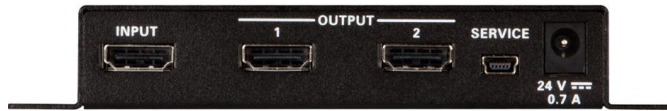
100-240 Volts AC, 50/60 Hz power pack, model PW-2407WU included

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

Included Accessories

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

Available Accessories

CBL Series: Crestron® Certified Interface Cables

Notes:

1. HDMI requires an appropriate adapter or interface cable to accommodate a DVI or Dual-Mode DisplayPort signal. CBL-HD-DVI interface cables are available separately.
2. 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.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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