HD-DA-2
1-to-2 HDMI® Distribution Amplifier and Audio Converter

DO Check the Box

QUANTITY	PRODUCT	PART NUMBER
1	Power Pack, 24 Vdc 0.75 A, 100-240 Vac	2045865

DO Configure the Device

Configure the Crestron® HD-DA-2 using DIP switches 1-7. The default setting of the DIP switches is OFF.

NOTE: DIP switch 8 is not used.

Refer to the following table for DIP switch functions and associated settings.

| DIP Switch Functions		DIP Switch Settings						
		1	2	3	4	5	6	7
Audio Input Source Selection	HDMI IN	OFF						
	SPDIF Source	ON						
SPDIF Source, Audio Embedding[1]	AUDIO IN, SPDIF, RCA		OFF					
	AUDIO IN, OPTICAL		ON					
Audio EDID Control[2]	Copy HDMI OUT 1 Audio EDID			OFF	OFF			
	Copy HDMI OUT 2 Audio EDID			ON	OFF			
	LBR (DTS, AC3) or 2CH PCM			OFF	ON			
	2CH PCM Only			ON	ON			
Audio/Video EDID Control (Primary EDID Control)	Copy HDMI 1 EDID (Audio/Video)[3]					OFF	OFF	OFF
	Copy HDMI 2 EDID (Audio/Video)[3]					ON	OFF	OFF
	Copy HDMI 1 EDID (Video Only)[4]					OFF	ON	OFF
	Copy HDMI 2 EDID (Video Only)[4]					ON	ON	OFF
	Best Common Resolutions (Video Only)[4]					OFF	OFF	ON

1. DIP switch 1 must be ON
2. May be overridden by DIP switches 5, 6, and 7
3. Overrides audio EDID set by DIP switches 3 and 4
4. DIP switches 3 and 4 control audio EDID

NOTE: Depending on the audio/video application, a DIP switch setting may be ignored.

NOTE: If DIP switch settings are changed after power is applied to the device, cycle power to the device in order for the new DIP switch settings to be applied.

The following sections provide sample configurations and associated DIP switch settings for video distribution, audio embedding, and audio extraction applications.

Video Distribution: The HD-DA-2 can be used to distribute one HDMI® video source to two devices using their best common video EDID information. In the example below, one HDMI video source, a Blu-ray™ player, connects to the HDMI IN port of the HD-DA-2. Two displays connect to the HDMI OUT 1 and HDMI OUT 2 ports on the HD-DA-2. The DIP switch settings shown below configure the HD-DA-2 to both distribute video from the Blu-ray player to the two displays using their best common video resolutions and to send 2CH PCM to both displays.

Blu-ray player
Display
Display
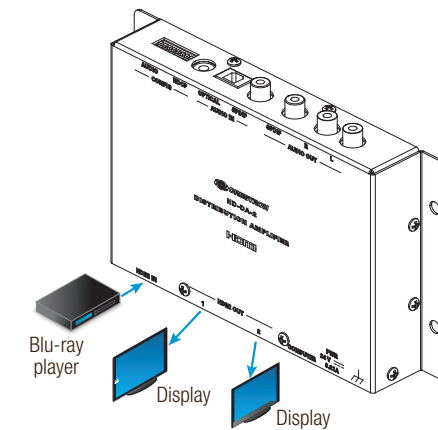
DIP switch 2, represented by an **X**, is ignored.

Audio Embedding: The HD-DA-2 can be used to embed digital audio from DVI or HDMI sources that do not transmit audio with the video (for example, video from a computer via a DVI-to-HDMI conversion cable). Digital audio must then be sent to the HD-DA-2 separately from the video. In the example below, the video output from a computer connects to the HDMI IN port of the HD-DA-2. The digital audio output from the computer connects to the AUDIO IN OPTICAL port of the HD-DA-2. A display connects to the HDMI OUT 2 port on the HD-DA-2. The DIP switch settings shown below configure the HD-DA-2 to receive video at the HDMI IN port, to embed audio from the OPTICAL port, and to send audio and video to the HDMI OUT 2 port.

Display
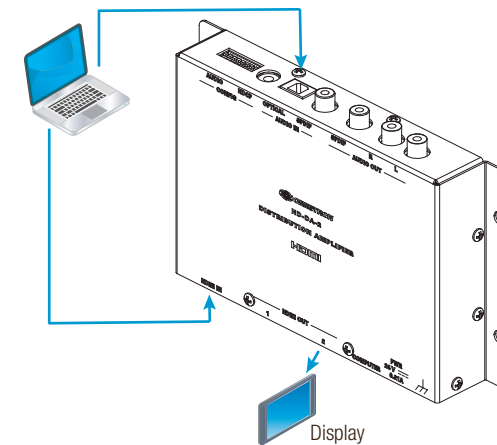
DIP switches 3 and 4, each represented by an **X**, are ignored.

Audio Extraction: The HD-DA-2 can be used to extract audio from an HDMI source and feed the audio to an AV receiver or amplifier or to both devices. In the example below, the HDMI source, a Blu-ray player, connects to the HDMI IN port on the HD-DA-2. An AV receiver connects to the AUDIO OUT SPDIF port, and an amplifier connects to the AUDIO OUT R and L ports. The DIP switch settings shown below configure the HD-DA-2 to route audio from the Blu-ray player to the AV receiver and amplifier.

AV receiver
Amplifier
Blu-ray player
Display
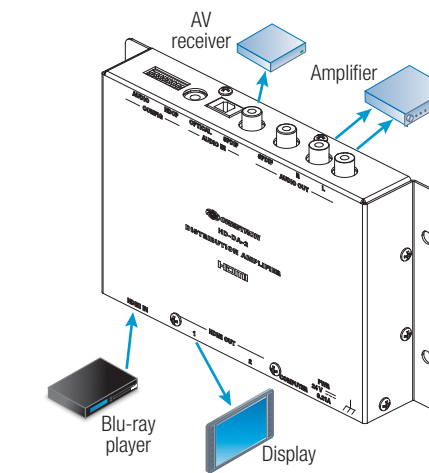
DIP switch 2, represented by an **X**, is ignored.

DO Set the HDCP Keys

Using the rotary switch and a small screwdriver, set the required number of HDCP keys. The rotary switch allows up to 16 keys to be set: A-F correspond to 10-15, and 0 corresponds to 16.

NOTE: If a rotary switch setting is changed after power is applied to the device, cycle power to the device in order for the new rotary switch setting to be applied.
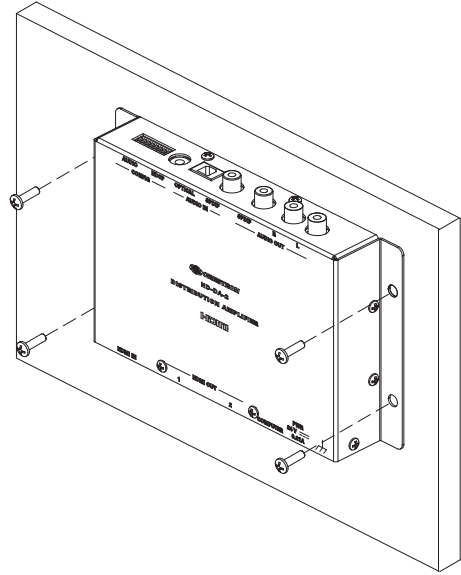
DO Install the Device

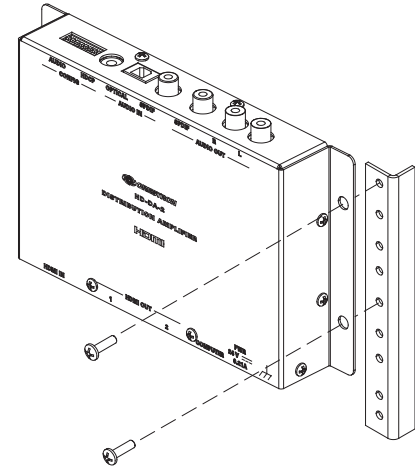The HD-DA-2 can be mounted onto a wall or a rack rail as appropriate for the installation.

Mounting onto a Wall

Using four mounting screws (not included), mount the device onto a wall.

Mounting onto a Rack Rail

Using two mounting screws (not included), mount the left or right mounting flange of the device onto the front or rear rail of a rack.

DO Learn More

Visit the website for additional information and the latest firmware updates. To learn more about this product, use a QR reader application on your mobile device to scan the QR image.

Crestron Electronics
15 Volvo Drive, Rockleigh, NJ 07647
888.CRESTRON | www.crestron.com

CRESTRON DO GUIDE

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Specifications subject to change without notice.