

# HD-CONV-USB-300

## USB Converter with HDMI® and Analog Audio Input



- Converts a 4K60 4:4:4 HDMI® input to a USB 3.0 output
- Captures uncompressed 1080p60 video and stereo audio over USB 3.0<sup>1</sup>
- Supports deep-color and HDR up to 12-bit
- HDCP 2.2 and HDCP 1.x compliant on HDMI input and output<sup>2</sup>
- Automatically downscales 4K sources to 1080p for USB capture
- Supports capturing 2-channel digital audio from either HDMI (LPCM 2.0) or the 3.5 mm analog audio input
- Compliant with the USB Audio Class (UAC) and USB Video Class (UVC) standards
- HDMI output port for local viewing or loop-through functionality
- Compact surface-mountable housing

The Crestron HD-CONV-USB-300 converts an HDMI® signal to USB 3.0. The device captures uncompressed 1080p60 video with stereo digital or analog audio. USB capture is accomplished using the USB Video Class (UVC) and USB Audio Class (UAC) standards, which are compatible with the most common video capture or streaming software applications. Input resolutions larger than Full HD and up to 4K UHD are automatically scaled to 1080p for USB capture. Video timing stabilization helps to ensure a reliable and stable USB capture stream.

### Great for UC

The HD-CONV-USB-300 can be used for standalone video conversion or as part of an integrated UC (unified communications) solution. When connected to a Microsoft Teams® or Zoom Rooms™ video conference system, the HD-CONV-USB-300 provides an HDMI input to enable the presentation and sharing of AV content from a laptop computer or other AV source.

By using the HDMI output and analog audio input, you can leverage existing video conferencing equipment in the room. For example, if you need to install a secondary UC codec to an existing installation, you can share the microphone and HDMI camera devices by feeding these signals into the HD-CONV-USB-300. The HDMI output can connect the camera signal back to the existing UC codec while the captured USB stream feeds into the new UC codec.

You can also install this device in an existing video conferencing room to add BYOM (Bring Your Own Meeting) capability. Simply connect the room's microphone and HDMI camera to the HD-CONV-USB-300 and connect via USB to the user's laptop to start the meeting from a soft codec while using the room's superior camera and microphone.

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### Specifications

#### Video

|                           |   |
|---------------------------|---|
| <b>Input Signal Type</b>  | HDMI 2.0 (DVI 1.0 compatible)   |
| <b>Output Signal Type</b> | USB 3.0 supporting UVC; <sup>1,2</sup><br>HDMI 2.0 (DVI 1.0 compatible) loop out port with support for HDCP 2.2/1.x |
| <b>Input Resolution</b>   | 4K UHD @ 60 fps 4:4:4 with support for 12 bit HDR   |
| <b>Output Resolution</b>  | USB: HD 1080p @ 60 fps uncompressed;<br>HDMI: 4K UHD @ 60 fps 4:4:4 with support for 12 bit HDR                     |

#### Audio

|                           |   |
|---------------------------|---|
| <b>Input Signal Type</b>  | HDMI or analog audio input (selectable in configuration software) |
| <b>Output Signal Type</b> | USB 3.0 supporting UAC  |
| <b>Format</b>             | Stereo 2 channel LPCM   |

#### Communications

|            |                                       |
|------------|---------------------------------------|
| <b>USB</b> | USB 3.0 device supporting UVC and UAC |
|------------|---------------------------------------|

#### Connectors

|                 |  |
|-----------------|--|
| <b>HDMI IN</b>  | (1) HDMI Type A connector, female;<br>Digital video/audio input  |
| <b>HDMI OUT</b> | (1) HDMI Type A connector, female;<br>Digital video/audio output   |
| <b>AUDIO IN</b> | (1) 3.5 mm analog audio input jack   |
| <b>USB</b>      | (1) USB 3.0 Type B connector, female;<br>USB 3.0 device port;<br>USB 3.0 Type B male to Type A male cable included |

#### Indicators

|               |   |
|---------------|---|
| <b>PWR</b>    | (1) LED<br>Green indicates that there is an HDMI source. Red indicates that there is no HDMI source.                |
| <b>ACTIVE</b> | (1) LED<br>Green indicates that the software on the connected PC is actively receiving video from the unit via USB. |

#### HDCP

(1) LED  
Red indicates that the source is using HDCP 1.x.  
Blue indicates that the source is using HDCP 2.2.  
Off indicates that the source is not using HDCP.

#### Power

##### USB bus powered

Works with USB 3.0 and USB 2.0 ports. For USB 2.0, use of a Y-cable connected to two USB 2.0 ports is required to properly power the HD-CONV-USB-300.

Power consumption varies depending on the input resolution, use of USB 3.0 or USB 2.0, and use of the HDMI loopout port.

| Input      | USB 3.0 | USB 2.0 |
|------------|---------|---------|
| 1080p60    | 3.5W    | 3.4W    |
| 4K60 4:4:4 | 5.0W    | 4.4W    |

##### NOTES:

- Use of the HDMI loopout port requires an additional 0.5W.
- In most cases, a USB 3.0 port can provide more than 4.5W of power; however, if the HD-CONV-USB-300 is connected to a USB 3.0 port that is limited to 4.5W of power, it is recommended that a USB 3.0 Y-cable be used.

#### Environmental

|                    |                                |
|--------------------|--------------------------------|
| <b>Temperature</b> | 32° to 104° F (0° to 40° C)    |
| <b>Humidity</b>    | 10% to 90% RH (non-condensing) |

#### Construction

|                 |   |
|-----------------|---|
| <b>Housing</b>  | Metal (steel), black  |
| <b>Mounting</b> | Freestanding, surface mountable, or attachment to a rack rail |

#### Dimensions

|               |                   |
|---------------|-------------------|
| <b>Height</b> | 4.55 in. (116 mm) |
| <b>Width</b>  | 5.04 in. (128 mm) |
| <b>Depth</b>  | 0.98 in. (25 mm)  |

#### Weight

0.77 lb (0.349 kg)

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### Compliance

#### Regulatory Model: M202118001

UL® Listed for US and Canada, IC, CE, FCC Part 15 Class B digital device

### Model

#### HD-CONV-USB-300

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#### Notes:

1. Compatible with USB 2.0 capture, but minimal MJPEG compression is applied. Note that a Y cable (not included) is required when connected via USB 2.0 to deliver the necessary power.
2. HDCP encrypted sources cannot be converted to USB. HDCP content can be displayed on the HDMI output only.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at [www.crestron.com/How-To-Buy/Find-a-Representative](http://www.crestron.com/How-To-Buy/Find-a-Representative) or by calling 855-263-8754.

This product is covered under the Crestron standard limited warranty. Refer to [www.crestron.com/warranty](http://www.crestron.com/warranty) for full details.

The specific patents that cover Crestron products are listed online at [patents.crestron.com](http://patents.crestron.com).

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### HDMI

Specifications are subject to change without notice.

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