**SECTION 27 41 16**

**INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT**

**GUIDE SPECIFICATION**

*Specifier: The Specifier/Design Professional is responsible for the accuracy of all project specifications, including system application and coordination with related sections. This guide specification is provided as a convenience and requires editing to match actual project requirements. CRESTRON ELECTRONICS, INC. SHALL NOT BE LIABLE FOR ANY DAMAGES ARISING OUT OF THE USE OF ANY OF ITS GUIDE SPECIFICATIONS. For Crestron design assistance and design review please contact Sales Support Services Department at 800.237.2041 or techsales@crestron.com.*

*Specifier: Please see PART 4 for a listing of products specified in this Guide Specification.*

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# **GENERAL**

*NOT USED in this Guide Specification. Specifier shall Specify PART 1 administrative and procedural requirements as needed.*

# **PRODUCTS**

## **HDMI to USB Converter**

### Basis of Design HDMI to USB converter

*SPECIFIER NOTE: 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 4KUHD are automatically scaled to 1080p for USB capture.*

*Video timing stabilization helps to ensure a reliable and stable*

*USB capture stream.*

*https://www.crestron.com/Products/Video/HDMI-Solutions/USB-Converter/HD-CONV-USB-300*

#### Crestron HD-CONV-USB-300

### Architecture

#### Physical Architecture:

##### Converter Construction:

###### The Converter shall be housed in a metal case.

###### The Converter shall include integrated mounting flanges that support simple surface mounting or standard rack rail mounting.

###### All connectors shall be located on opposite edges of the device to allow for mounting the unit in shallow compact locations.

##### Converter Connections:

###### One (1) HDMI Type A input:

Supports HDMI 2.0

Supports DVI 1.0 with separate adaptor

Supports Stereo 2-channel LPCM

###### One (1) 3.5mm TRS input:

 Supports unbalanced analog stereo audio

###### One (1) HDMI Type A Output:

Supports HDMI 2.0 digital video with audio

Supports HDCP 2.2/1.x

###### One (1) USB 3.0 Type-B for device video with audio output

USB 3.0 device support

USB 3.0 UVC support

#### Power supply:

##### The Converter shall be powered by the USB 3.0 connection.

### System Functions

#### Content Support for video conference systems

##### The Converter shall support HDMI source conversion for presentation audio and video for software video conference units with USB 3.0 ports.

#### The Converter shall support the following modes of operation via configuration:

##### Audio input mode (HDMI or analog)

##### Device mode (content or camera)

#### The Converter shall support capture of input signals up to 4KUHD@ 60fps 4:4:4 with support for 12-bit HDR.

##### 1080p60 source video shall be captured uncompressed.

#### USB capture standards supported

##### UAC USB Audio Class

##### UVC USB Video Class

#### LED Indicators

##### An Active Connection LED Indicator shall illuminate green to indicate that the connected USB device software is actively receiving video from the converter unit via the USB connection.

##### An HDCP LED Indicator shall illuminate green, blue, or off to indicate the following HDCP states: Source is using HDCP 1.x, Source is using HDCP 2.2, Source is not using HDCP.

#### System shall not require separate control equipment normal operation.

# **EXECUTION**

*NOT USED in this Guide Specification. Specifier shall Specify PART 3 On-Site work as needed.*

# **APPENDICES**

## **SPECIFIED PRODUCTS**

*Specifier Note: This Article includes Crestron products specified in this Guide Specification document. This Article is for reference only and should not be required in actual project manual unless included in an overall system equipment list.*

### Crestron HD-CONV-USB-300