RELEASE NOTES

HD-CONV-USB-300

Standalone Release (build 3.25.27)

Product Description

Item	Value
File name	HD-CONV-USB-300_FW_v3.25.27_Tool_v2.08.zip
Products Supported	HD-CONV-USB-300
Firmware Version	Standalone Release (build 3.25.27)
Tool Version	2.08
MD5	57dca14d2f22ceb6bab5d5aa7c01cb20
SHA-256	23dcc43e0418b406d6afd8f670f97a1739e3fb6aebfaf027ab02b24b1f3d1012

*The MD5 and SHA-256 reference the file “HD-CONV-USB-300_FW_v3.25.27_Tool_v2.08.zip”.

Notes and Recommendations

- Device configuration and firmware updates are performed using the provided HD-CONV-USB-300 Tool (included in the firmware package).
- Recording video sources containing HDCP protection is not supported by this unit. Only the HDMI loop out port will be active with HDCP sources.
- When connecting to a 4K capable display, HD-CONV-USB-300 will output the highest supported resolution. For best picture quality, adjust scaling settings accordingly.

System Requirements and Dependencies

The following Software tool and firmware versions (or higher) are recommended:

Device Database	N/A
SIMPL Windows	N/A

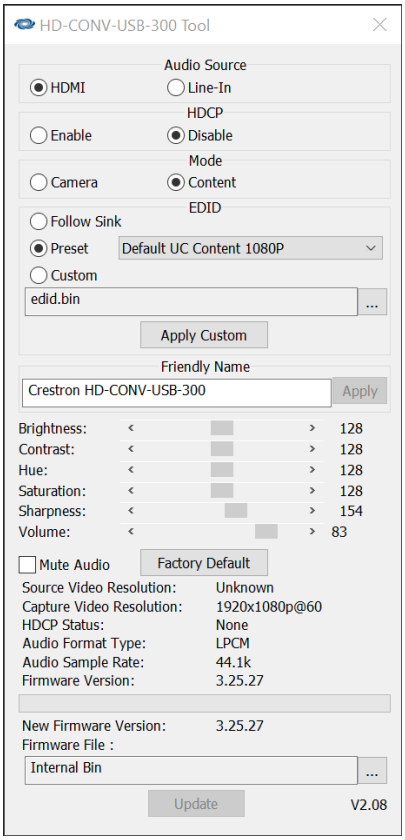
Upgrade Instructions

Prerequisites:

- Windows 10 Operating System
- USB 3.0 Type-A connector
- Standard USB 3.0 Type A-to-B Cable (included)

Follow the steps below to update the firmware on the HD-CONV-USB-300 unit:

1. Use the USB 3.0 A-to-B cable to connect the device to the host computer.
   The device is USB bus powered and will power upon connection (PWR LED is solid red)
2. Unzip the file “HD-CONV-USB-300_FW_v3.25.27_Tool_v2.08.zip”.
3. Double click on “HD-CONV-USB-300 Tool.exe” in the unzipped folder.
   Note: Please always use the latest tool (v2.08) to avoid problems.
4. The following window appears:



   Note: new features will be greyed out until the firmware update has been completed.

5. Verify which firmware version you currently have installed in the tool below.
   You should see the build version. For example, you could see build v2.15.17 which is the original shipping release.
6. Select the “Browse File” button (...) below to select the new firmware version:
   “HD-CONV-USB-300 FW v3.25.27.bin”
   A popup dialog will confirm the selected file version.
   Note: The latest firmware version is included in the same zip file that contains the tool.

7. Click on the “Update” button and confirm in the dialog popup window to start the firmware update process. After the process, a popup dialog will confirm the firmware update is successful.
   WARNING: Do not disconnect the USB cable while updating is in progress. The process can take up to 3 minutes.
8. You can verify if the new firmware version has build v3.25.27.
   You can now use the new features.

Current Version

Standalone Release (build 3.25.27)

Date: 2023-03-10

File name: HD-CONV-USB-300_FW_v3.25.27_Tool_v2.08.zip

New Features

The following new features will be included in this firmware release:

- **Device Mode**: Camera or Content (default)
  - Set it to Camera if you want to use the connected source as a camera input to the UC system. Use this mode when connecting to any HDMI camera device or Automate VX.
  - Set it to Content if you want to use the connected source as a content input to the (non-Flex) UC system. This is the default setting.

  Confirm your selection in the popup dialog. The device will need to restart to complete the process.

- **EDID Management**: Choose Follow Sink (default for Camera mode), a Preset (“UC Content 1080P” is default for Content mode) or upload a Custom EDID file (in .bin format).
  Click “Apply Custom” after uploading an EDID file.

  You can choose one of six predefined EDID profiles in the dropdown:
  1. DM Default
  2. Laptop 16x9 1080P60 2CH
  3. Laptop 16x9 1080P50 2CH
  4. DM Default 4K30 2CH
  5. DM Default 4K60 2CH
  6. Default UC Content 1080P 2CH

- **Friendly Name**: Change the default name of the unit. This is useful when multiple HD-CONV-USB-300 devices are connected to the same host computer. By default, it will have the following name: "Crestron HD-CONV-USB-300".

  Note: The friendly name cannot be longer than 39 characters and only supports characters a-z, A-Z, 0-9 and the following special characters: ' . - _ ! # ^ ~

  Click “Apply” to rename the device and click “Yes” to grant permission to execute the script “rmdrvd.exe”. This will automatically remove and reconnect the device in order to change the device name. For this you need Administrator rights. It will take between 30-45 seconds to complete the process. During the process, the tool controls will be greyed out.

  If you open Windows Device Manager you will see it under Cameras as " Crestron HD-CONV-USB-300 Camera" or “Crestron HD-CONV-USB-300 Content", depending on the selected device mode. This is the UVC device. And under “Sound, video and game controllers” as " Crestron HD-CONV-USB-300 Audio", which is the UAC device.
  Note: The “Camera”, “Content” and “Audio” suffixes will only appear for the default name, not for a custom name.

Known Issues

- When capturing a video stream over USB, the video may show artifacts or distortion when using 1280x768P @ 60Hz frame rate.
- If the USB signal is extended over Crestron USB-EXT-DM-Local/Remote pairs, the stream may need to be restarted after switching from one HD-CONV-USB-300 to another.
- When Audio Source is set to Line-In and HDCP is Enabled: If HDCP content is detected, the content and audio from HDMI and Line-In will stop. This is the standard behavior by design.
- When the HD-CONV-USB-300 is connected to a USB-EXT-3 remote extender, converted video shows constant buffering on the USB-EXT-3 local extender.
- When using a MacBook Pro M1 on the HDMI input it could show inconsistencies in HDCP negotiation. It could initially display as HDCP v1.4 and after reconnecting as HDCP v2.2.

Licensing and Copyright Information

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www.crestron.com/opensource