# 4KXUSB3

## 4K HDMI TO USB 3.0 (+ HDMI LOOP, ANALOG AUDIO & VISCA)

## DEVICE CONNECTORS



## OVERVIEW

INOGENI's 4KXUSB3 is an affordable and easy-to-use Ultra HD to USB 3.0 camera converter with an HDMI loop and VISCA port. It can even support multiple devices on the same laptop.

- Easy and versatile camera converter for countless applications
- Cost-effective professional camera converter solution that is reliable as welle as simple to install and connect (no driver required)
- Compatible with Barco ClickShare Conference (CX-20, CX-30 & CX-50)
- Compatible with Zoom Rooms
  - HDMI camera
  - Crestron's AutoTracker™ and AutoFramer™ are now certified for Zoom Rooms® software with INOGENI's 4KXUSB3 converter for camera control.
- Designed and manufactured in Canada
- TAA-compliant

## WHAT IS IN THE BOX

- 1x 3 ft. USB 3.0 cable (Type-A to Type-B)
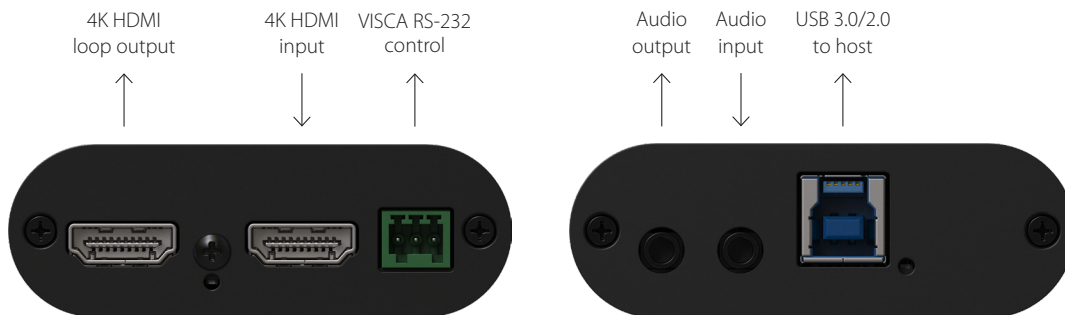- 1x RS-232 terminal block adapter

## HOW DOES IT WORK?

The 4KXUSB3 Ultra HD to USB 3.0 professional camera converter with an HDMI loop and VISCA port works with any virtual meeting room software that enables USB cameras and microphones, such as Microsoft Teams, Zoom, Google Meet or BlueJeans.

Requiring no drivers and compatible with Windows, macOS and Linux laptops, the camera converter resolves all interoperability issues.

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## FEATURED CONNECTORS



HDMI loop output

**4K HDMI input**

VISCA RS-232 control

LOOP OUT

4KXUSB3

4K

IN

USB 3.0/2.0

RX
GND
TX

VISCA

INOGENI

AUDIO IN OUT

**USB 3.0/2.0**

Audio I/O

## DEVICE INTERFACES



4K HDMI
loop output

4K HDMI
input

VISCA RS-232
control

Audio
output

Audio
input

USB 3.0/2.0
to host

## TECHNICAL SPECIFICATIONS

| VIDEO INPUT | |
|---|---|
| Connector & video resolutions | 1x HDMI 1.4a 4K UHD (3840/4096×2160), 1440p, 1080p, 720p, 1080i, 480p, 576p, 1280×1024, 1280×960, 1280×800, 1024×768, 800×600, 640×480 |
| Frame rates | 60, 59.94, 50, 30, 29.97, 25, 24, 23.98 Hz for all resolutions, except 4K = 30 Hz max. |
| Color space | RGB, YCbCr, 4:4:4, and 4:2:2 (4K=RGB) |
| Sampling rate | 297 MHz |
| Embedded audio | Ch 1&2 48kHz LPCM |
| HDMI-CEC | Passthrough HDMI connections |

| VIDEO OUTPUT | |
|---|---|
| Connector & video resolutions | 1x HDMI 1.4a 4K UHD (3840/4096×2160), 1440p, 1080p, 720p, 1080i, 480p, 576p, 1280×1024, 1280×960, 1280×800, 1024×768, 800×600, 640×480 |
| Color space | RGB, YCbCr 4:4:4 and 4:2:2 (4K=RGB) |
| USB - Connector & video resolutions | 1x USB 3.0 Type-B |
| USB - CODECs | YUY2 4:2:2 and NV12/I420/YV12 4:2:0 for USB 3.0 MJPEG for USB 2.0 |

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## TECHNICAL SPECIFICATIONS - CONT.

### VIDEO OUTPUT - CONT.

| | |
|---|---|
| USB - Video scaler | Automatic hardware based |
| USB - Color space conversion | Automatic hardware based |
| USB - Sampling conversion | Automatic hardware based |
| USB - Frame rate conversion | Automatic hardware based |

### AUDIO

| | |
|---|---|
| Analog audio I/O | 2-channel LPCM audio from HDMI and/or from audio jack |
| Audio input connector | 1x 3.5 mm, MIC or line-level, unbalanced |
| Audio output connector | 1x 3.5 mm, line-level, unbalanced<br>CH1&2 48 kHz LPCM feed from HDMI |
| Mixing functionality | HDMI audio and analog audio inputs are mixed over the USB input interface.<br>USB audio output and HDMI audio input are mixed over the analog audio output.<br>Use the Control App in order to manage audio layout. |

### PHYSICAL DETAILS

| | |
|---|---|
| Dimensions (W x L x H) | 9.9 cm x 7.4 cm x 1.9 cm<br>3.9" x 2.9" x 0.75" |
| Power supply | Powered by USB (5V, 900mA) |
| Weight | 140 g (0.30 lb) |
| Package content | 1x 3 ft. USB 3.0 cable (Type-A to Type-B)<br>1x RS-232 terminal block adapter |
| Operating temperature | 0° to 45° C / 32° to 113° F |
| Storage temperature | -40° to 105° C / -40° to 221° F |
| Relative humidity | 0% to 90% non-condensing |

### INFORMATION

| | |
|---|---|
| UPC code | 040232378935 |
| Origin | Canada |
| Warranty | 2 years |

### CONTROL

| | |
|---|---|
| PTZ control connector | 1x terminal block for VISCA control from UVC interface<br>RS-232 interface<br>Baud rate @ 9600 bps |

### COMPATIBILITY

| | |
|---|---|
| Barco ClickShare Conference compatible | Compatible with Barco ClickShare Conference (CX-20, CX-30 & CX-50) |
| Zoom Rooms compatible | HDMI camera<br>Crestron's AutoTracker™and AutoFramer™ are now certified for Zoom Rooms® software with INOGENI's 4KXUSB3 converter for camera control. |
| Operating system | NO driver installation necessary!<br>Windows 7 and above (32/64-bit)<br>macOS 10.10 and above<br>Linux (kernel v2638) |
| Minimum host requirements | USB 2.0 port – We recommend USB3.0 for uncompressed video<br>4GB RAM<br>Intel Core i5 or equivalent<br>Graphic card with dedicated memory |
| Motherboards | Compatible with all motherboards: Intel, Renesas, ASMedia, and Fresco Logic |
| Supported cameras | Cameras and camcorders with an HDMI output |
| Software compatibility | UVC-compliant, it runs with all software compatible with DirectShow, AVFoundation and V4L2.<br>Compatible with: Microsoft Teams, Zoom, Webex, Google Meet, etc. |

### CERTIFICATIONS

| | |
|---|---|
| HDCP-compliant | The INOGENI device does not decrypt BD/DVD movies, satellite/cable receivers or other encrypted sources. |
| Certifications | FCC, CE, RoHS, IEC62368, SoV, RCM, BSMI RoHS, BSMI, CB, KC, MSIP |
| TAA-compliant | Yes |

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