

Overview

UVC1-4K is a high-quality, high-performance capture device which is specially designed for high-definition and 4K video capture applications. It supports 1 channel of up to 4096×2160p @ 60 fps video from an HDMI source and selectable HDMI or 3.5mm analog audio.

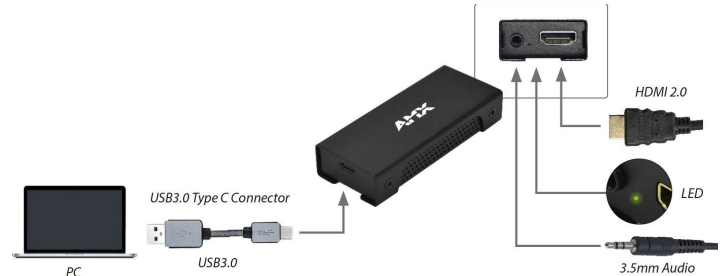


Installation

UVC1-4K supports operating system:

- Windows 10 (64-bit)
- macOS 10.12 or newer

For UVC devices, such as the UVC1-4K, there is no need to install drivers. The driver will activate automatically when the device is attached to your PC or Mac.



What's in the box

The following items are included with the UVC1-4K:

- USB 3.0 A to C Cable
- Quick Start Guide (QSG)

Interface

- 3.5mm TRS audio jack for Line in/Mic in (Gain: Line in is 0dB, Mic in is 32dB)
- HDMI 2.0 port supports input resolution up to 4096×2160 pixels
- USB 3.0 Type C

Specifications

UVC1-4K SPECIFICATIONS	
Video Input Interface	HDMI 2.0
Audio Input Interface	HDMI Embedded Audio / 3.5mm Analog Stereo Audio
Video RAW Data Format	YUY2, P010 (Support on outputs below 1080P60) NV12, I420 (Support on all outputs)
Video Input Resolution	Up to 4096×2160p@60fps (4:4:4 10-Bit HDR)
Recording Video Format	YUY2, P010, NV12, I420 (USB 3.0)
UVC Output Resolution	4096×2160p@60/50fps and 3840×2160p@60/50fps inputs will be output at 3840×2160p@30fps (NV12, I420) or 1920×1080p@60fps (YUY2, P010) For all inputs below 3840×2160p@30fps, UVC1-4K outputs will match the input resolution
LED	Red/Green
OS Compatibility	Windows 10 (64-bit) macOS 10.12 or newer
Power Consumption	3.57W Max (4.76V / 750mA)
Dimensions (H x W x D)	0.66" x 1.43" x 3.44" (17.0mm x 36.3mm x 87.3mm)
Weight	93.62g

LED Indicator and Video Notification

LED	Video	Input status
Red	"No Signal" white text on a black background	HDMI is not connected
Red	"Signal Unlock" white text on a black background	HDMI is connected, but the signal is not locked
Green	Source video	HDMI is connected with source
Red & Green cross flashing	Content protection (video stops, freezes, etc.)	HDCP protected content

System Requirement

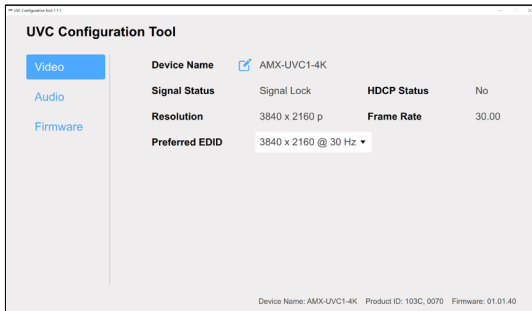
Notebook	
CPU:	7 th generation Intel® Core™ i7-7XXX (Quad-Core) or above
Memory:	8GB (dual-channel)
Graphic:	NVIDIA GeForce GTX 870M, Intel HD graphics 4000, or above
USB port:	USB3.0 standard type-A port (use USB3.0 type-C to type-A cable) Or USB3.0 type-C port (use USB3.0 type-C to type-C cable - not included with product)
Desktop PC	
CPU:	6 th generation Intel® Core™ i5-6XXX (Quad-Core) or above
Memory:	8GB (dual-channel)
Graphic:	NVIDIA GeForce GTX 660, Intel HD graphics 4000, or above
USB port:	USB3.0 standard type-A port (use USB3.0 type-C to type-A cable) Or USB3.0 type-C port (use USB3.0 type-C to type-C cable - not included with product)

AMX UVC Configuration Tool User Guide

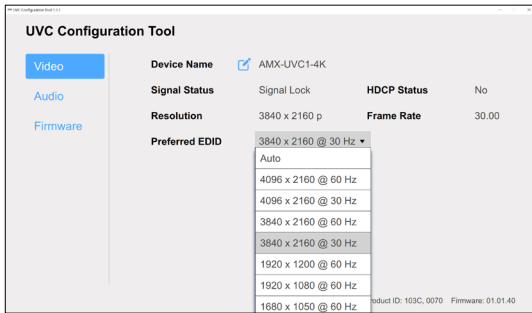
- I. Connect UVC1-4K to PC with USB cable.
- II. Download latest "UVC Configuration Tool" application from AMX.com.
- III. Install and run "UVC Configuration Tool" to configure the UVC1-4K.
- IV. Install latest firmware image from AMX.com prior to configuring device.
 - If configuring multiple UVC1-4K devices for the same PC, first configure them individually, then connect all configured devices to the PC for video capture.
- V. Close UVC Configuration Tool before using video capture software.

1. Video Settings:

- (1) **Device Name:** Click edit icon to enter a custom device name if desired. Click edit icon again to save changes and the UVC Configuration Tool will close. The new Device Name is now stored on the device but not active on the PC until the device is "reinstalled" in Device Manager.
 - In Device Manager, right click on the AMX-UVC1-4K device (in "Cameras" and in "Sound, video and gaming controllers") and select Uninstall.
 - Then select "Scan for hardware changes" to detect the custom named device. "AMX - " is added to the name automatically.

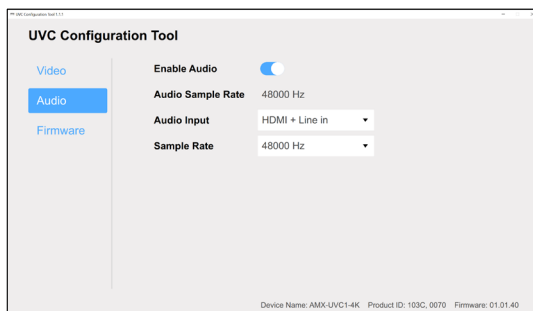


- (2) **Preferred EDID:** Select the preferred video resolution EDID setting for UVC1-4K capture device (for example 3840x2160 @ 30Hz). This setting presents the preferred resolution to the video source.



2. Audio Settings:

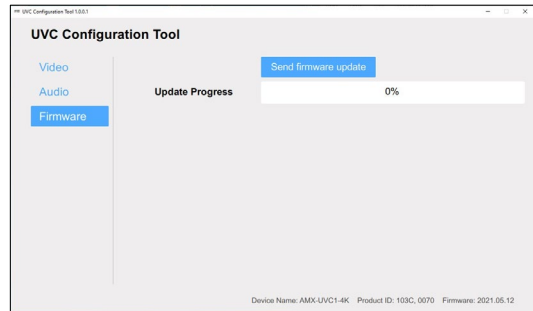
- (1) **Enable Audio:** Allows UVC1-4K device to appear as a mic/input option in Sound properties or video capture software (default is enabled). When disabled, the UVC1-4k device will not be visible as a mic/input.
- (2) **Audio Input:** Select the source of the audio for the video capture.
 - HDMI: From HDMI embedded audio
 - Line in: From external analog audio
 - Mic in: From microphone
 - HDMI + Line in: Mix audio from HDMI and external analog audio
 - HDMI + Mic in: Mix audio from HDMI and microphone
 - NONE: UVC1-4K does not output audio (Muted)
- (3) **Sample Rate:** Select desired sample rate (default is 48000 Hz)



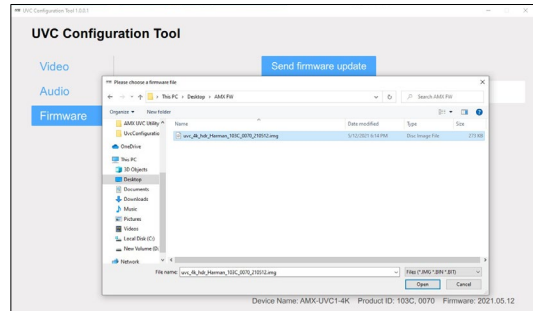
3. Firmware Update:

Update UVC1-4K device firmware with the following steps:

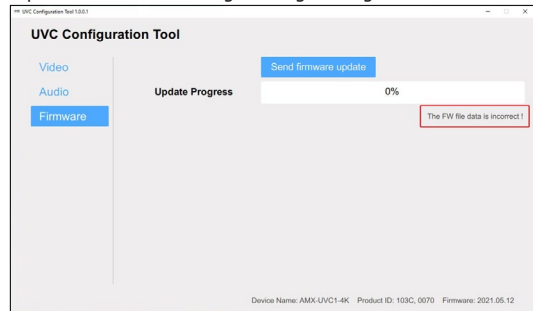
- (1) Select Firmware tab and press "Send firmware update" button.



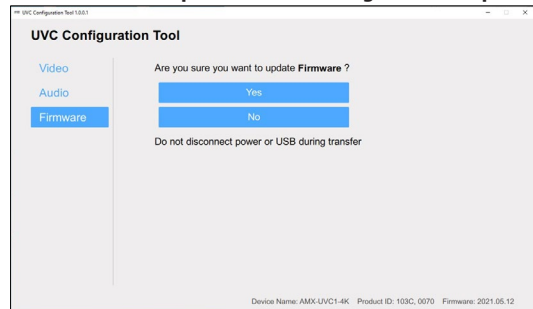
- (2) Browse to the firmware image and click open to select file.



- (3) If the firmware image file is incorrect or damaged, the update procedure will stop and show the following warning message.



- (4) Click "Yes" to install new firmware. **!Do not disconnect power or USB during firmware update procedure!**



- (5) The firmware update is complete when the Update Progress reaches 100% and the pop up message shows "Update Successfully !" The updated version will be shown the next time the UVC Configuration Tool is launched.

