



AC7600
4K HDMI USB-C Video Capture Card

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Manual

AC7600 | 4K HDMI Video Capture Card

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1.0 Introduction

The AC7600 is a HDMI capture card and can capture a single 4K HDMI signal at a 30Hz refresh rate while supporting 4K30Hz HDMI passthrough on the HDMI output, the HDMI input supports up to 4K60Hz. The AC7600 is compatible with Windows 7/8/8.1/10/11, Mac OS. The USB 3.0/Type-C interface connects to the computer and enables your live stream or video conferencing software to add the AC7600 as a camera or video input source. There is no need to install additional drivers.

1.1 Packing contents

The following parts need to be present in the packing:

- AC7600 - 4K HDMI USB-C Video Capture Card
- USB-C to USB-A with USB-C adapter
- HDMI Cable
- Quick Install

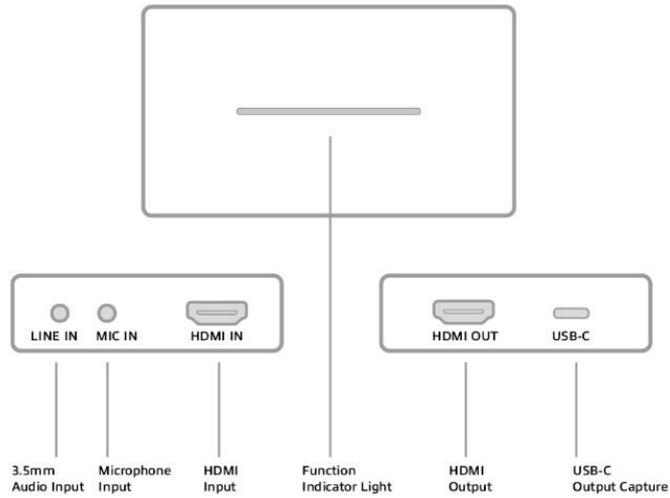
1.2 Features

- 4K60Hz input support and HDMI out capture and recording at 4K30Hz.
- Recording video formats: NV12/8bit, RGB/24bit, YUY2/16bit.
- UAC and UVC protocol is supported with 48Khz audio sampling rate.
- No driver installation is required.
- Microphone and line audio input.
- 40ms low latency.

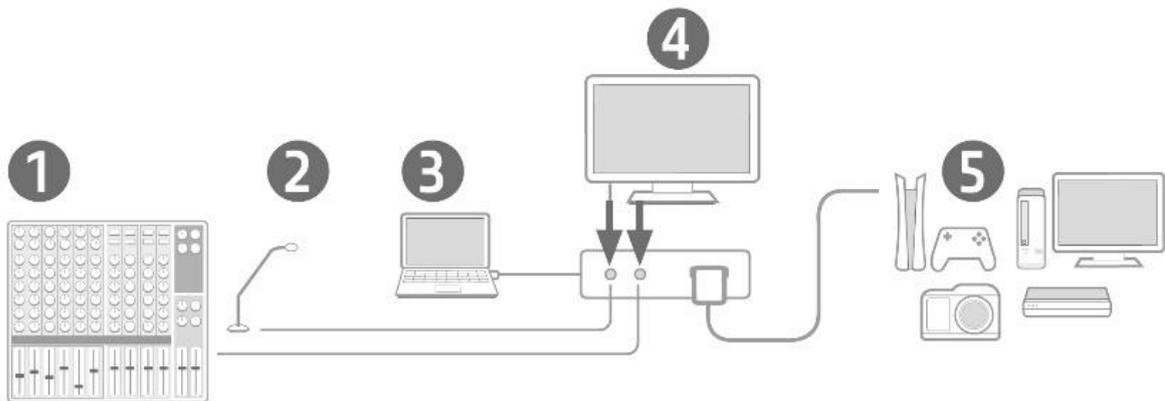
2.0 Specifications

USB-C	USB 3.0, 5Gb/s transfer bandwidth, USB 2.0 compatible	
Input	1x HDMI video input, 1x Line in audio input, 1x Microphone audio input	
Output	1x HDMI, 1x USB-C	
STANDARD		
Capture	Compliant with UVC(USB Video Class) and UAC (USB Audio Class) standards	
Input Format	HDMI 2.0	
Capture Video Format	RGB, YUY2, NV12	
Input Resolution	480p, 576p, 720p, 1080p, 4K@30Hz,4K@60Hz	
	640x480,800x600,1024x768,1600x1200,1280x1024,1680x1050,1920x1200,1600x900,1440x900,1366x768,1360x768,1280x960,1152x864, 1280x800,1920x1080,3840x2160	
USB3.0 Capture Video Format	NV12 8bit	Maximum support 4K/30Hz resolution capture, backward compatible. Note: When the input is 4K/60Hz or 1080P/60Hz, the highest capture resolution is 1080P/60Hz. When the input video signal is 4K/30Hz, the highest capture is 4K/30Hz resolution.
	YUY2 16bit	Support 1080P/60Hz resolution capture, backward compatible.
	RGB 24bit	Uncompressed, high color, up to support 1080P/60Hz resolution capture, backwards compatible.
HDR	4K/60Hz HDR input + passthrough	
Chroma	YCbCr 4:4:4 with 16 bpc	
SYSTEM SUPPORT		
Operating System	Windows7/8/8.1/10/11, and Mac OS	
Compatible Software	Windows Media Encoder, Microsoft Teams	
	OBS Studio, QuickTime Player, VLC, OBS, vMix, Resolume ...	
OPERATING ENVIRONMENT		
Power Consumption	3.5W	
Operating Temperature	0-70℃	
Storage Temperature	-20-70℃	
Storage Humidity	5%-90%	

3.0 Device connections



4.0 Connection diagram



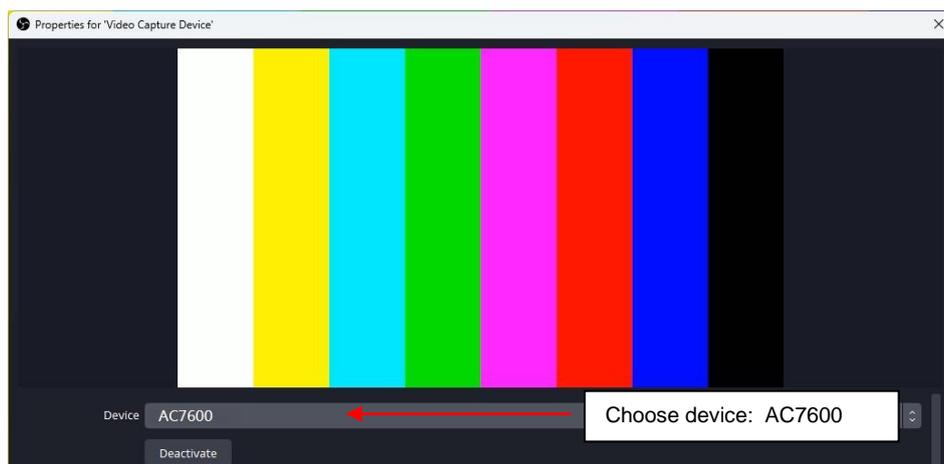
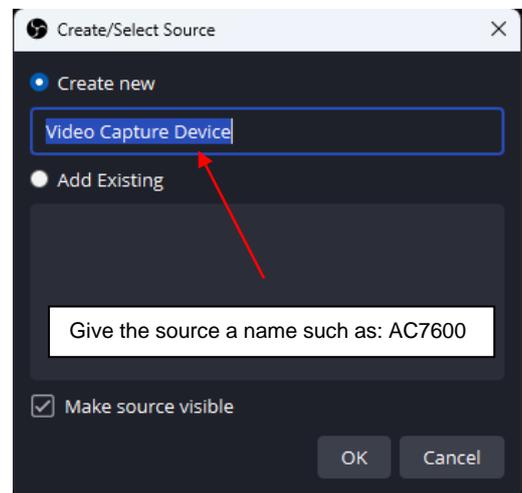
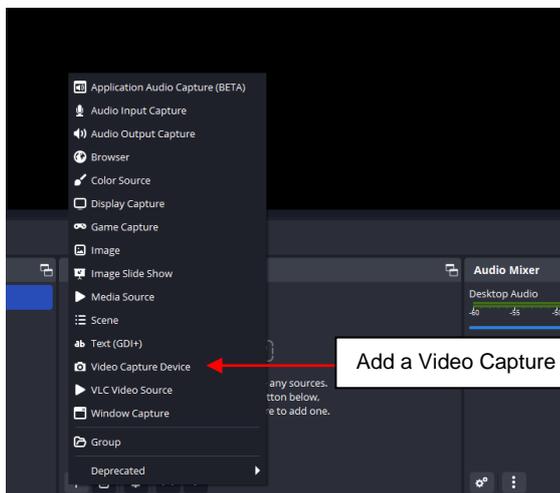
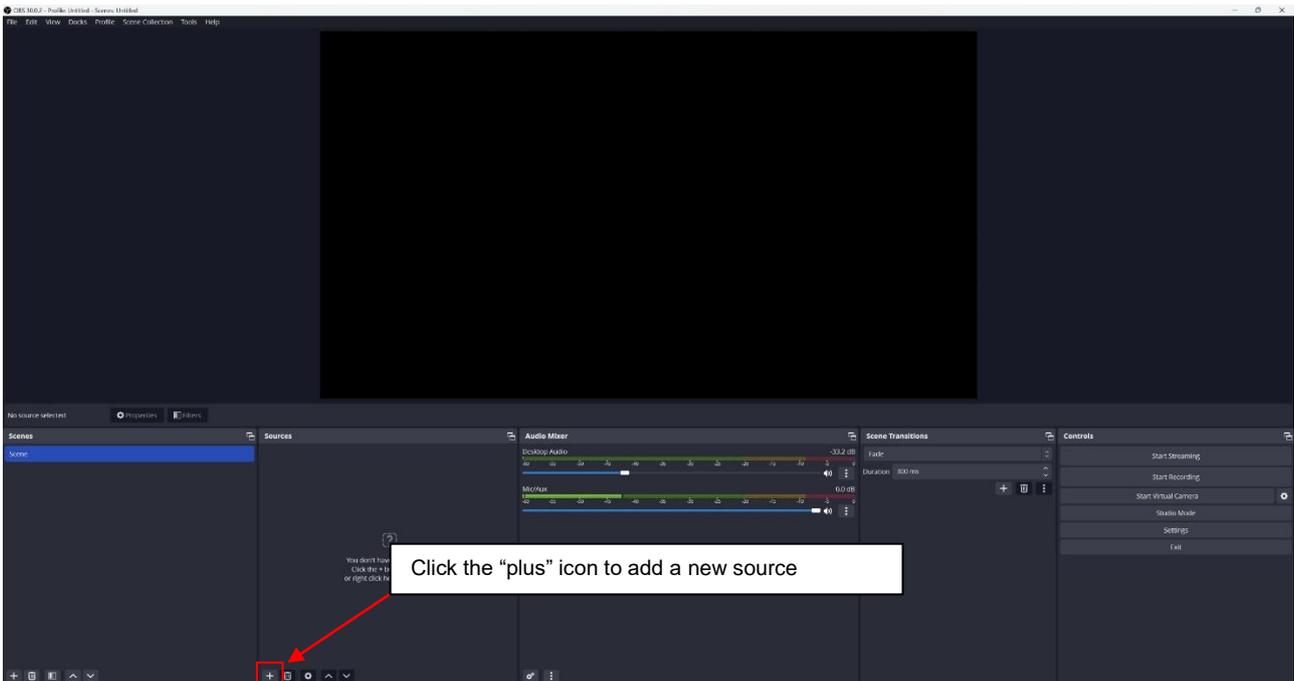
- 1) Connect external audio to the Line in.
- 2) Connect an external microphone to the Mic in.
- 3) Connect your computer or laptop to the USB-C port
- 4) Connect an external HDMI monitor to the HDMI Out from the AC7600 to monitor the loop-out signal from the device connected to the HDMI in.
- 5) Connect a HDMI device to the HDMI input of the AC7600, max supported resolution is 4K60Hz.

5.0 How to add the AC7600 to OBS (Windows)

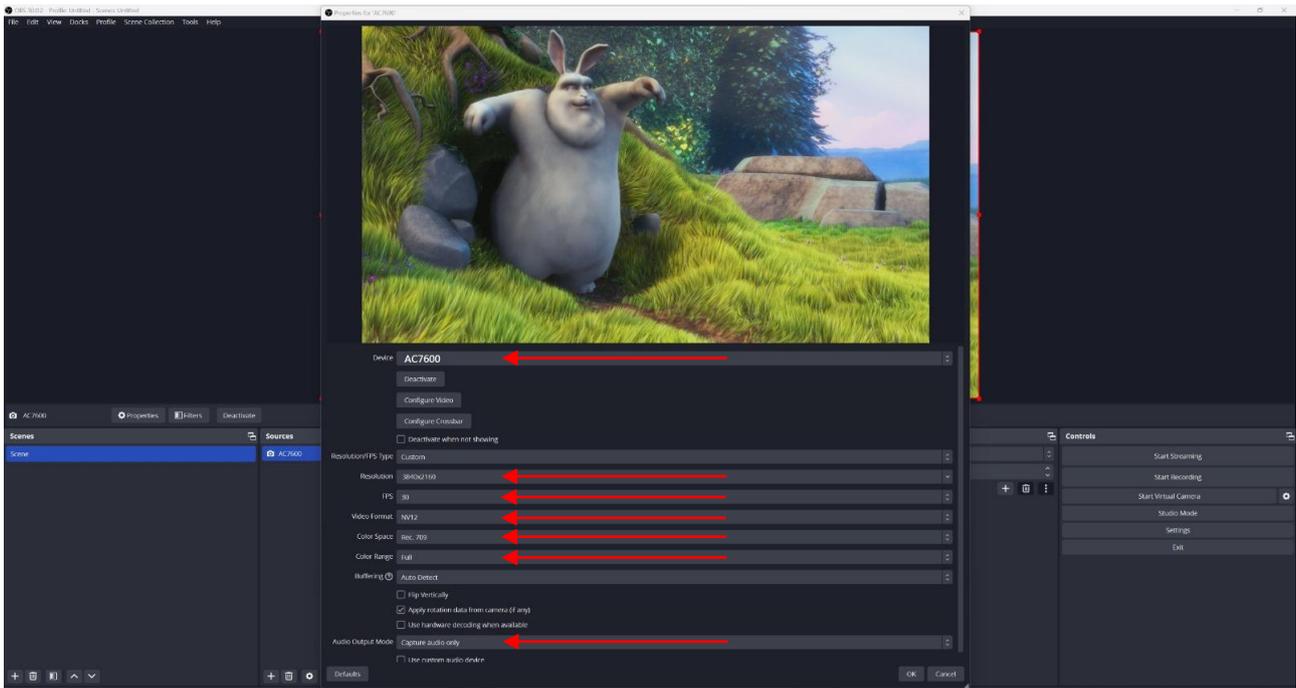
5.1 OBS Studio

OBS Studio (also Open Broadcaster Software) is a free and open-source cross-platform livestream software. All information and free download of OBS can be found on their website: www.obsproject.com. ACT cannot provide support for OBS, please refer to the OBS website if you have questions. In the simple steps below we show how to add the AC7600 to OBS studio. During making this manual we used OBS Studio version 30.0.2.

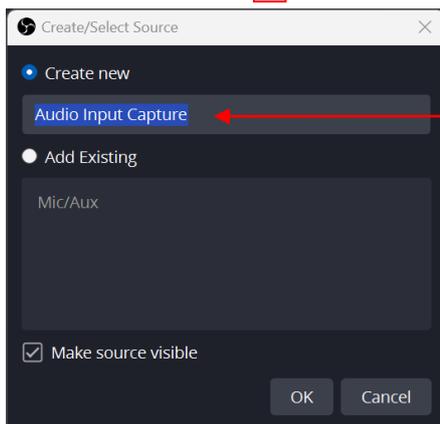
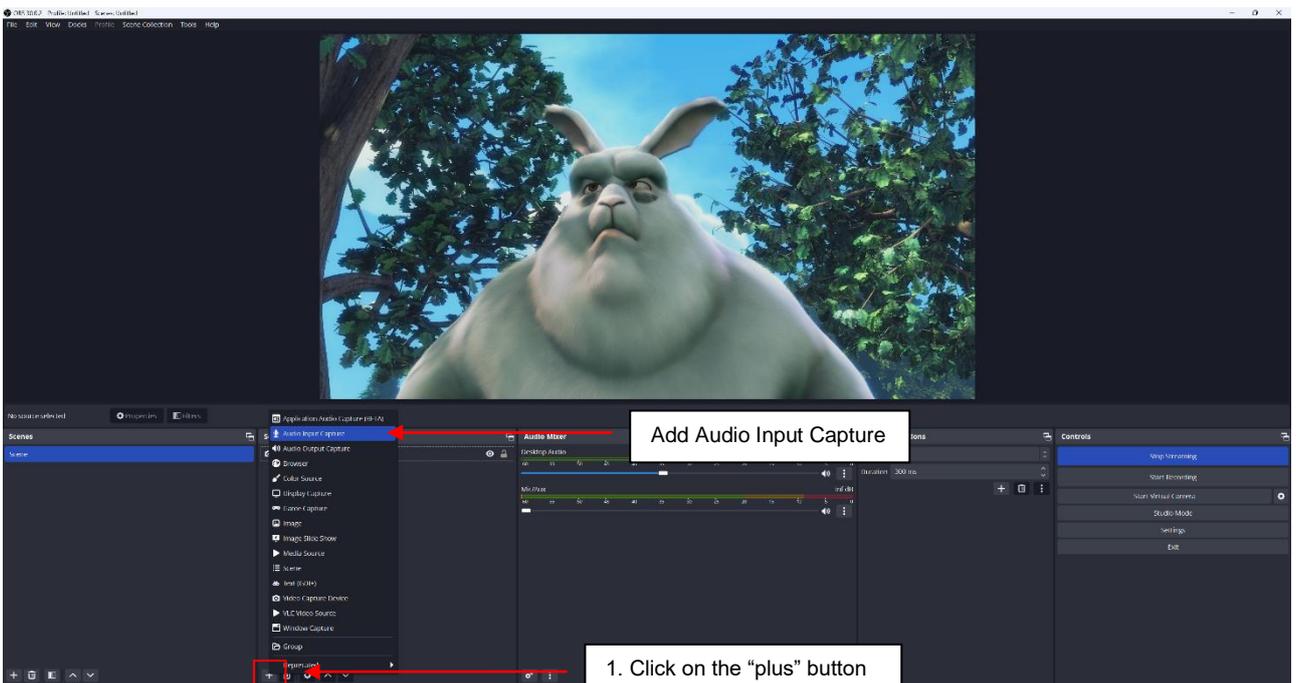
5.2 Add capture input (Windows)

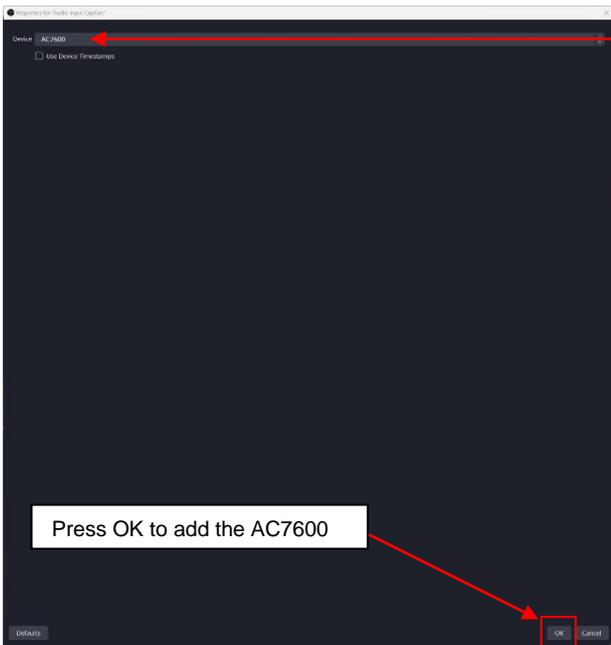


Set the right resolution in the example below we used 3840x2160 at 30 fps. Make sure to select the right settings for **Video Format**, **Color Space** and **Audio Output Mode** click **OK** to add the AC7600 to OBS.



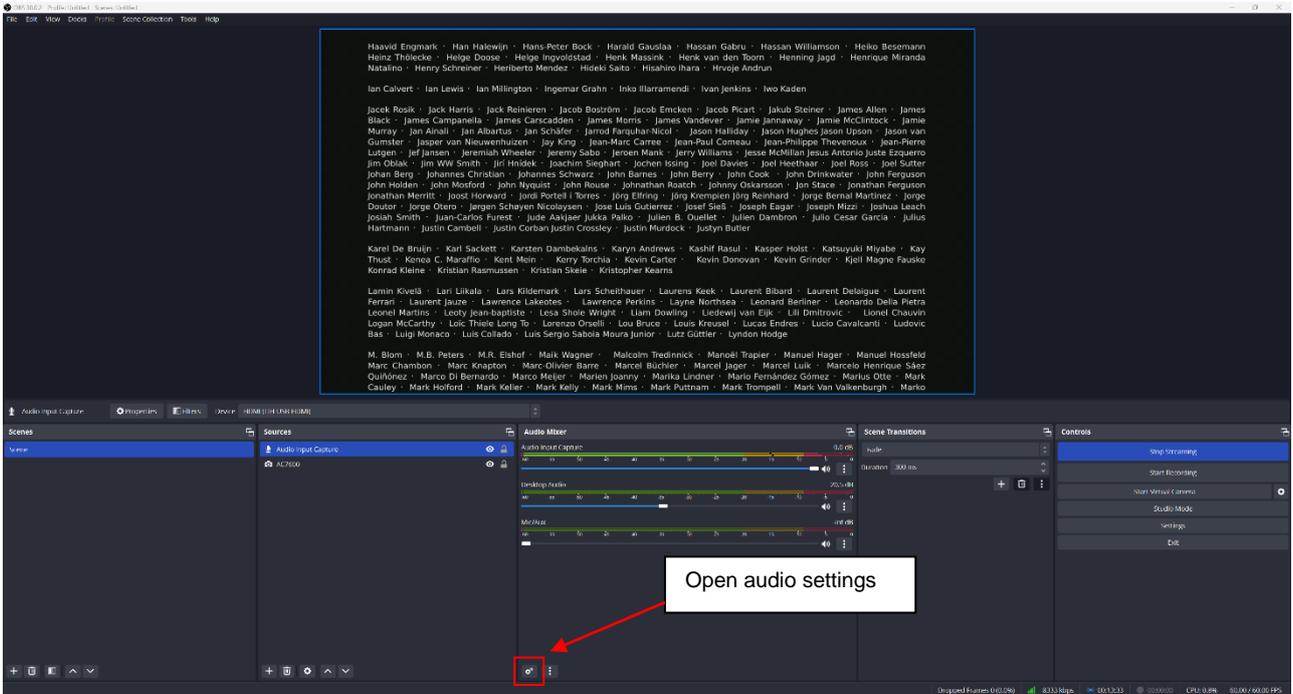
5.3 Add audio to OBS (Windows)



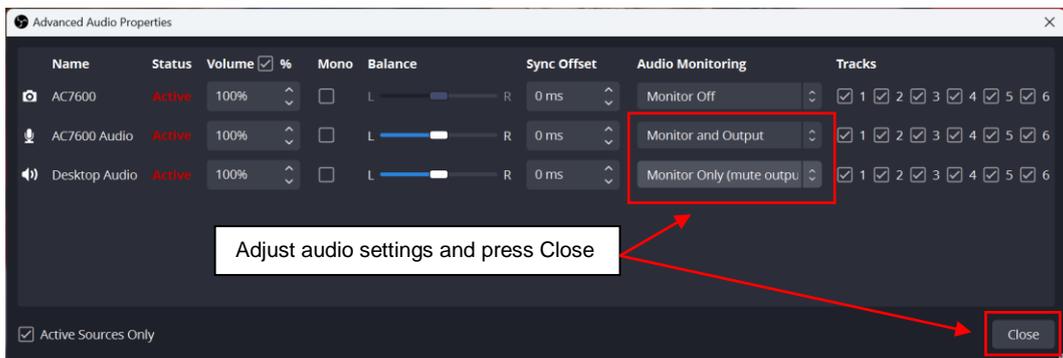


Choose Device : AC7600

Press OK to add the AC7600



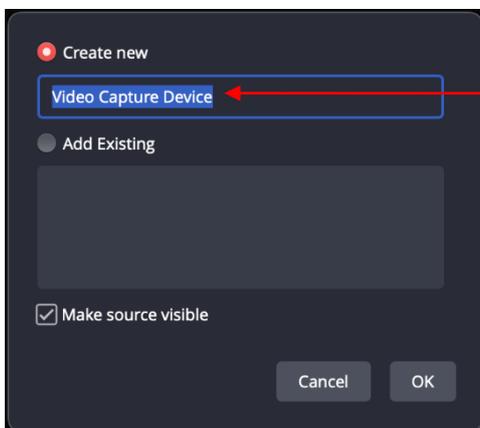
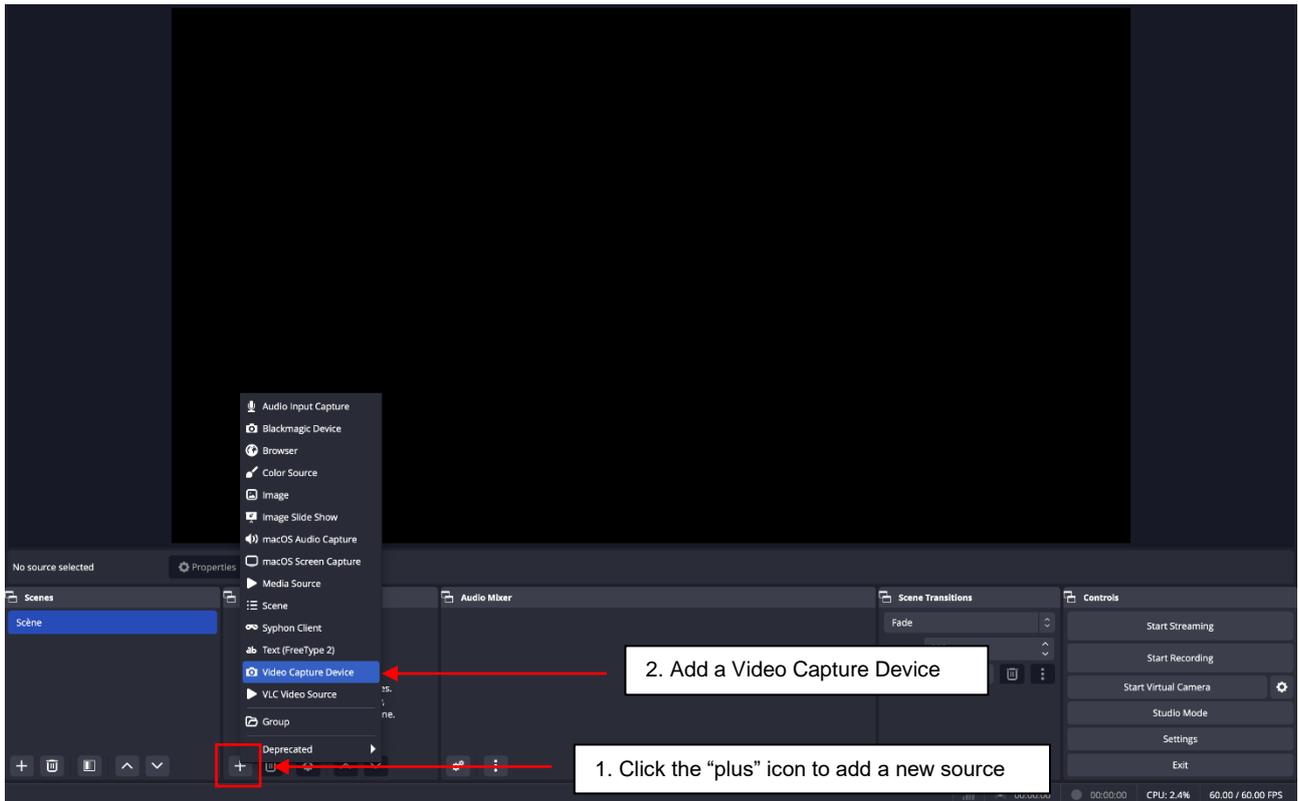
Open audio settings



Adjust audio settings and press Close

6.0 How to add the AC7600 to OBS (Mac)

6.1 Add capture input (Mac)



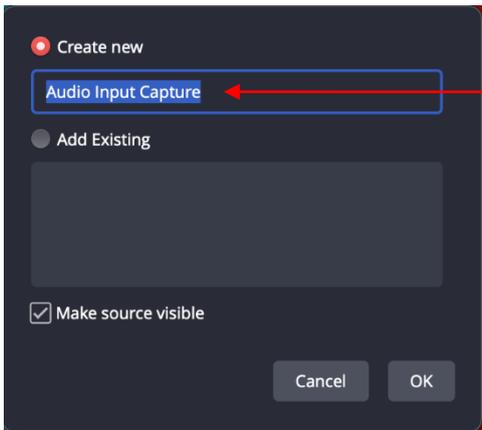
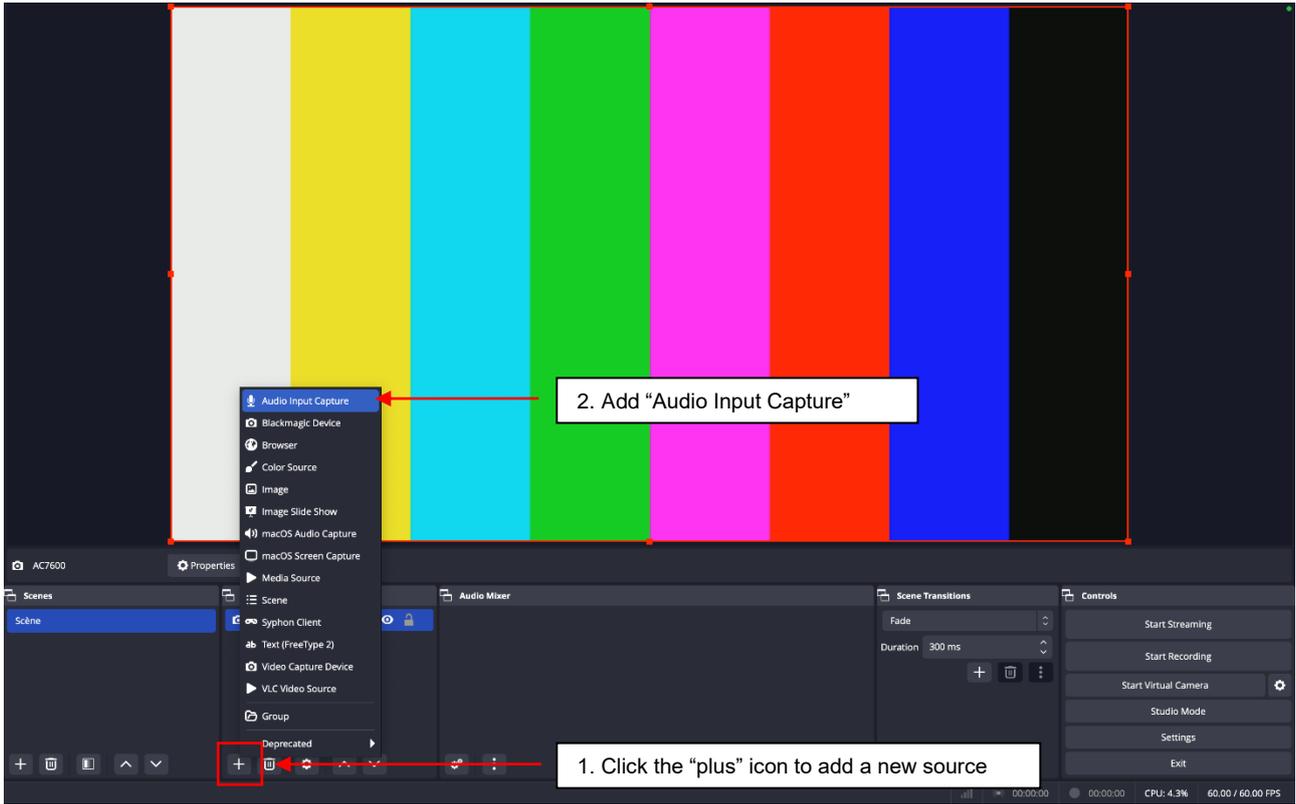
Give the video capture device a name

The image shows a screenshot of a software interface titled "Properties for 'Video Capture Device'". At the top, there is a color calibration bar with seven vertical bars of different colors: white, yellow, cyan, green, magenta, red, and blue. Below this bar are several configuration fields:

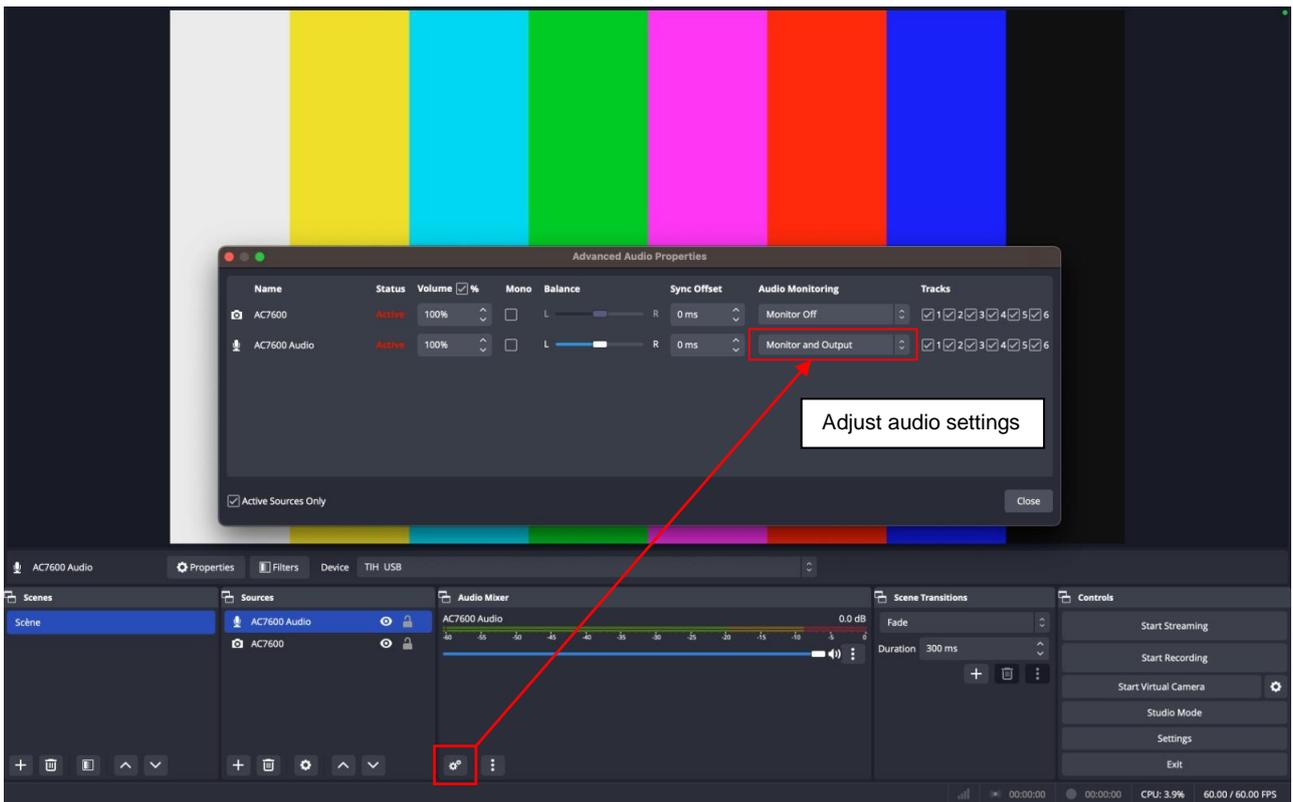
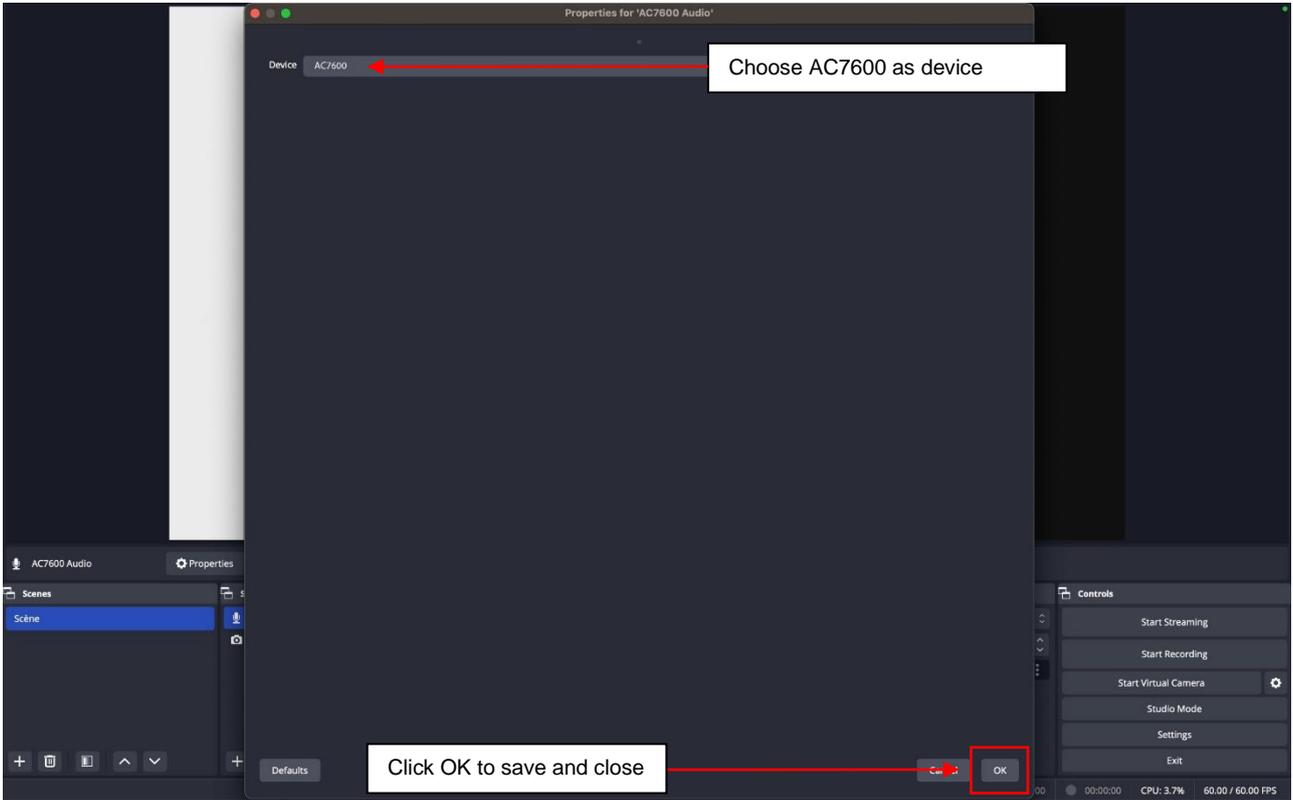
- Device:** Set to "AC7600". A callout box points to this field with the text "Choose AC7600 as device".
- Use Preset:** An unchecked checkbox. A callout box points to it with the text "Uncheck 'Use Preset'".
- Resolution:** Set to "3840x2160". A callout box points to this field.
- Frame rate:** Set to "30". A callout box points to this field with the text "Match the resolution and frame rate with the input source".
- Input format:** Set to "Auto (autoselect: NV12 - 420YpCbCr8BiPlanar)". A callout box points to this field.
- Color space:** Set to "Rec. 709". A callout box points to this field.
- Video range:** Set to "Full". A callout box points to this field.

A large callout box on the right side of the dialog, titled "Use these settings", has arrows pointing to the "Input format", "Color space", and "Video range" fields. At the bottom of the dialog, there are three buttons: "Defaults", "Cancel", and "OK".

6.2 Add audio source (Mac)



Give the audio capture device a name like AC7600 Audio



7.0 Service and support

This user manual has been carefully written by ACT's technical experts. If you have problems installing or using the product, please check the **support** link at the website www.act-connectivity.com.

8.0 Warning and points of attention



Due to laws, directives and regulations set out by the European parliament, some (wireless) devices could be subject to limitations concerning its use in certain European member states. In certain European member states the use of such devices could be prohibited. Contact your (local) government for more information about this limitations.

Always follow up the instructions in the manual*, especially where it concerns devices which need to be assembled.

Warning: In most cases this concerns an electronic device. Wrong/improper use may lead to (severe) injuries!

When you connect the device to the mains, make sure it will not be damaged or subject to (high) pressure.

A power socket is needed which should be close and easy accessible from the device.

Repairing of the device should be done by qualified ACT staff. Never try to repair the device yourself. The warranty immediately voids when products have undergone self-repair and/or by misuse. For extended warranty conditions, please visit our website at www.act-connectivity.com

Dispose of the device appropriately. Please follow your countries regulation for the disposal of electronic goods.

Please check below safety points carefully:

- Do not apply external force on the cables
- Do not unplug the device by pulling the power cable
- Do not place the device near heating elements
- Do not let the device come in contact with water or other liquids
- If there is any strange sound, smoke or odor, remove the device immediately from the power outlet.
- Do not put any sharp objects into the venting hole of a product
- Do not use any damaged cables (risk of electric shock)
- Keep the product out of reach of children
- Wipe off the product with soft fabric, not water mop.
- Keep the power plug and outlet clean
- Do not unplug the device form the power outlet with wet hands
- Unplug the device when you don't use it for a long time
- Use the device at a well ventilated place

**Tip: ACT manuals are written with great care. However, due to new technological developments it can happen that a printed manual does not longer contain the most recent information. If you are experiencing any problems with the printed manual or you cannot find what you are looking for, please always check our website www.act-connectivity.com first for the newest updated manual.*

*Frequently asked questions (FAQ). Consult **support** on our website www.act-connectivity.com and see if you can find the right information about your product here. It is highly advisable to consult the FAQ section first, the answer is often here.*

9.0 Warranty conditions

The ACT warranty applies to all ACT products. After buying a second-hand ACT product the remaining period of warranty is measured from the moment of purchase by the product's initial owner. ACT warranty applies to all ACT products and parts, indissolubly connected or mounted to the product it concerns. Power supply adapters, batteries, antennas and all other products not directly integrated in or connected to the main product or products of which, without reasonable doubt, can be assumed that wear and tear during use will show a different pattern than the main product, are not covered by the ACT warranty. Products are not covered by the ACT warranty when exposed to incorrect/improper use, external influences or when opening the service parts of the product by parties other than ACT. ACT may use refurbished materials for repair or replacement of your defective product. ACT cannot be held responsible for changes in network settings by internet providers. We cannot guarantee that the ACT networking product will keep working when settings are changed by the internet providers. ACT cannot guarantee the working of web services, apps and other third party content that is available through ACT products

When my product gets defective

Should you encounter a product rendered defective for reasons other than described above: Please contact your point of purchase for taking care of your defective product.