ADERTECH

VC-U4H-UB3



UHD HDMI & Audio to USB Capture
User Manual Version 1.1

Thank you for choosing ADERTECH products

We have done everything possible to ensure that our equipment pleases our consumers. When solving any problems in the operation and connection of ADERTECH equipment, it is best to contact authorized companies and specialists who work with our equipment. Our equipment is intended for professional use, so you have professional skills in using such equipment. ADERTECH is a manufacturer of a wide range of multimedia solutions.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lighting strikes, etc.

Use of surge protection systems is highly recommended in order to protect andextend the life of your equipment.

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1. Introduction

This product has a superior performance, superior compatibility, easy to carry, simple installation. It can capture HDMI video input signal. It supports external analog audio input and can be selected analog or digital audio signal to capture. This product supports HDMI loop out and analog stereo audio extract output from HDMI source, capture video resolution the maximum up to 1080p60Hz. It compatibles USB3.0 chipset (Intel, Renesas, ASMedia, Fresco Logic etc.), compatible with PCIe Gen 1.1 x1 expansion via USB3.0 interface. The product meets UVC and UAC standard. Simple plug and play, no driver and setting installation required.

2. Features

☆ Supports HDMI video input capture and HDMI loop output.

☆ Supports resolution 480i~1080p60Hz format video capture.

☆ Supports resolution 4K2K@60Hz (Down Scaler)->1080p60Hz video capture. (Attention: 4K2K@50/60Hz 4:2:2 resolution not supported down scaler function.)

☆ HDMI input and HDMI loop output supports HDMI 2.0, HDCP 2.2, resolution the maximum up to 4K2K@60Hz(4:4:4).

☆ Supports analog stereo audio input. (Double audio inputs selected to capture audio.)

☆ Supports analog stereo audio extract output from HDMI source.

☆ Compatibles Windows, Linux, OS X operating systems.

☆ Compatibles USB3.0 about transmission rate up to 300~350MB/s.

☆ Compatibles VLC, OBS, XSPLIT and AMCAP etc. PC capture software.

☆ Simple plug and play, no drive and setting installation required

3. Package Contents

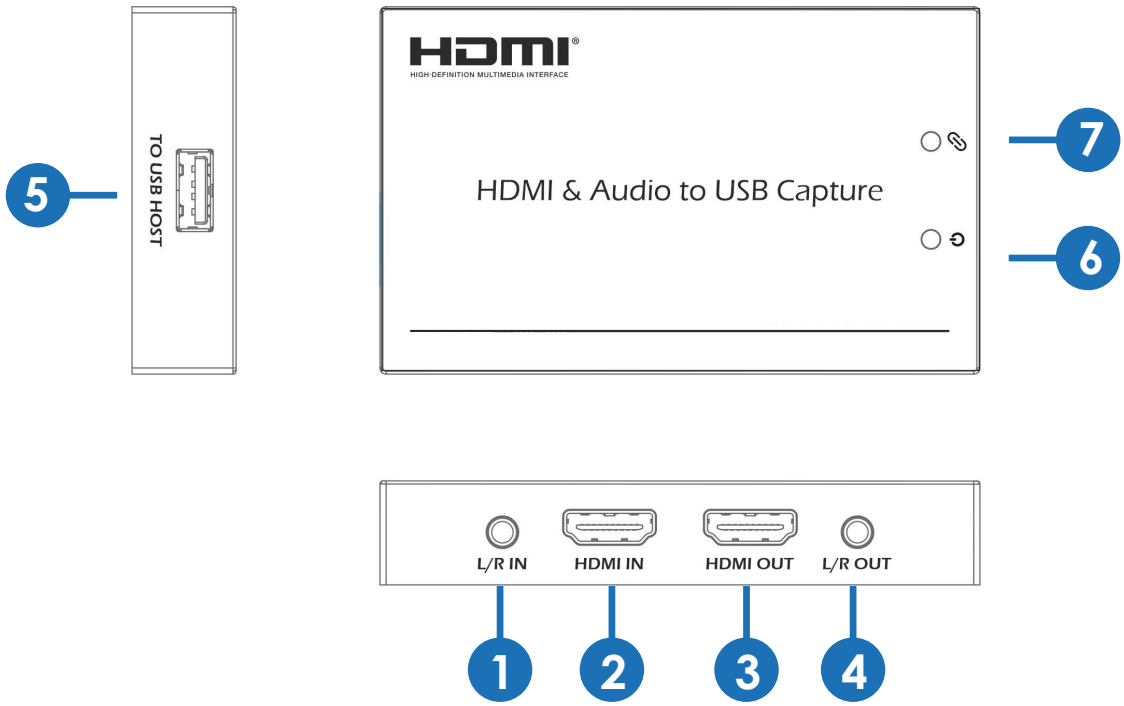
- 1× HDMI to USB3.0 Video Capture Plus
- 1× USB3.0 male to Type-A male Cable
- 1× User Manual

4. Specifications

Technical	
Input ports	1×HDMI IN [19-pin female] 1×AUDIO IN [3.5mm Stereo Mini-jack]
Output ports	1×USB [USB Type A, USB3.0—300~350MB/s] 1×HDMI OUT [19-pin female] 1×AUDIO OUT [3.5mm Stereo Mini-jack]
HDMI input resolution	Up to 4k2k@60(4:4:4) (Attention: 4k2k@50/60Hz 4:2:2 not supported down scaler function.)
HDMI output capture resolution	640×360, 640×480, 720×480, 720×576, 800×600, 856×480, 960×540, 1024×576, 1024×768, 1280×720, 1280×1024, 1280×960, 1280×800, 1368×768, 1440×900, 1600×1200, 1680×1050, 1920×1080
HDMI loop out resolution	Up to 4k2k@60(4:4:4)
Frame Rate	25/29.97/30/50/59.94/60fps
Audio and video capture	UVC (USB video class) and UAC (USB audio class) standard
Supports OS	Windows 7/8/10, Linux (Kernel version 2.6.38 and above), OS X (10.8 and above)

Software compatibility	OBS (Windows), Windows Media Encoder (Windows), Adobe Flash Media Live Encoder (Windows, OS X), VLC (Windows, OS X, Linux), QuickTime Broadcaster (OS X), QuickTime Player (OS X), Wirecast (Windows, OS X) and Potplayer (Windows) etc.
Mechanical	
Housing	Metal Enclosure
Color	Silvery
Dimensions	98mm [W] x 60mm [D] x 17mm [H]
Weight	125g
Power Consumption	3.4W
Operating Temperature	32 - 104°F / 0 - 40°C
Storage Temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

5. Operation Controls and Functions

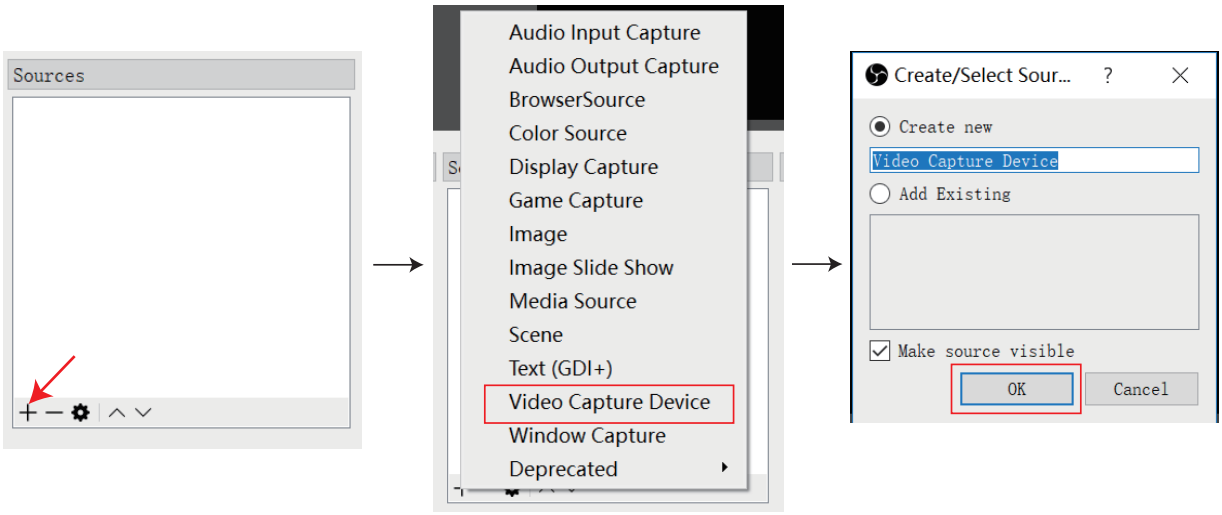


Number	Name	Function description
1	AUDIO IN	Audio input port, connect to external analog stereo audio input such as moble phone or DVD.
2	HDMI IN	Connect to HDMI source device such as DVD or PS4 player by HDMI cable.
3	HDMI OUT	HDMI loop output port, connect to display device such as TV by HDMI cable.
4	AUDIO OUT	Audio output port. (This port output signal from HDMI IN audio source.)
5	USB3.0 Capture out	USB3.0 capture output port, connect to PC or NoteBook for capturing video.
6	Power Indicator	This LED will illuminate when the device has connected PC's or NoteBook's USB port.
7	Action Indicator	This LED will illuminate when the device capture video normally.

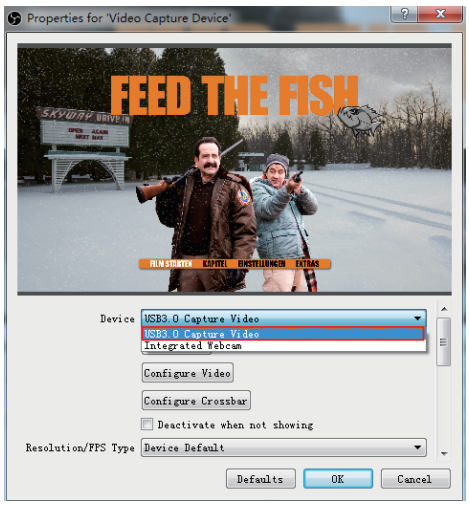
6. Software instruction

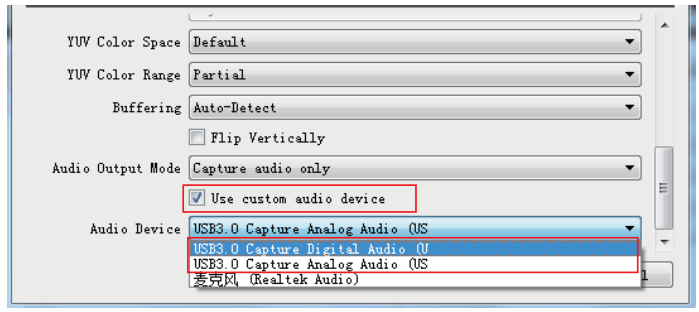
For example: OBS (Open Broadcaster Software) software, windows10 system.

1. Install "OBS" application software on the computer.
2. Double click "OBS Studio" shortcut to open the application.
3. Click the "+", you can see a up-down menu and select "Video Capture Device", and then click "OK" button.

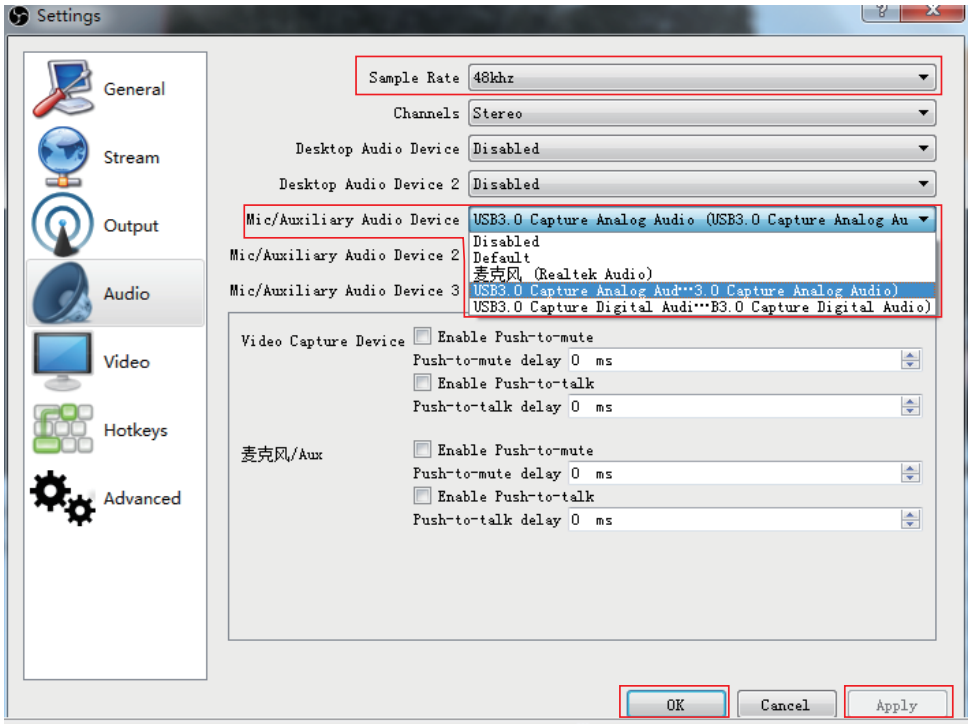


4. In the Device option box to select "USB3.0 Capture Video", at the buttom of the box to option for "Use custom audio device", and select "USB3.0 Capture Digital Audio or USB3.0 Capture Analog Audio". Then click "OK" button. (Attention: The "USB3.0 Capture Digital Audio" is HDMI IN port audio. The "USB3.0 Capture Analog Audio" is AUDIO IN input audio.)

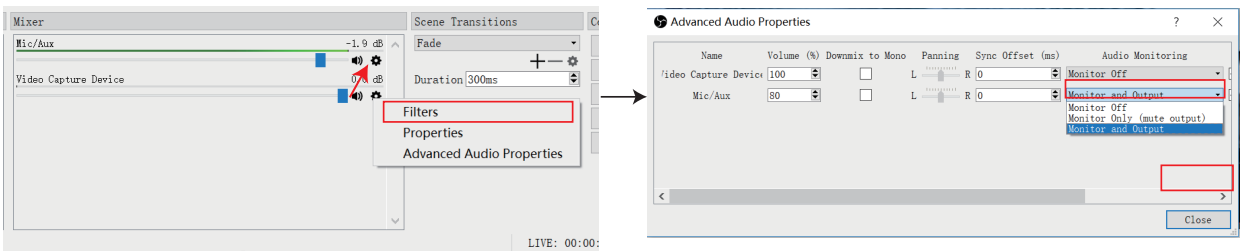




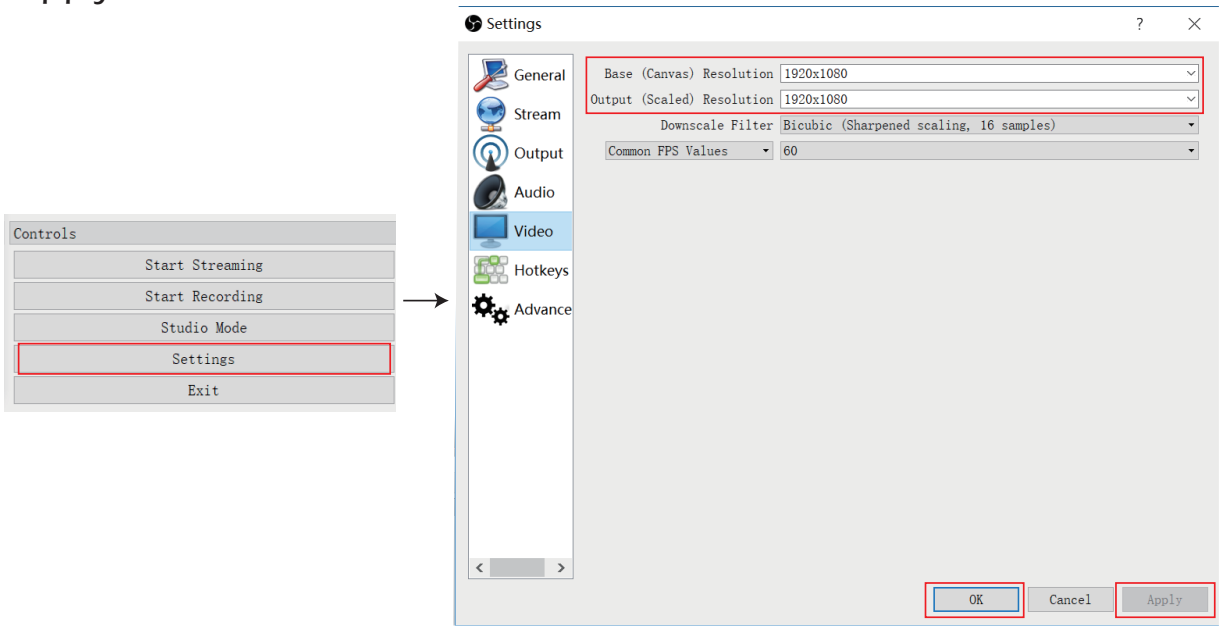
5. In the Setting page, you can select “Audio” option. In the page, you need select “Sample Rate” and “Mic/Auxiliary Audio Device” to select “USB3.0 Capture Analog Audio or USB3.0 Capture Digital Audio”. Then click “Apply” button and “OK” button. (Attention: The “USB3.0 Capture Digital Audio” is HDMI IN port audio. The “USB3.0 Capture Analog Audio” is AUDIO IN input audio.)



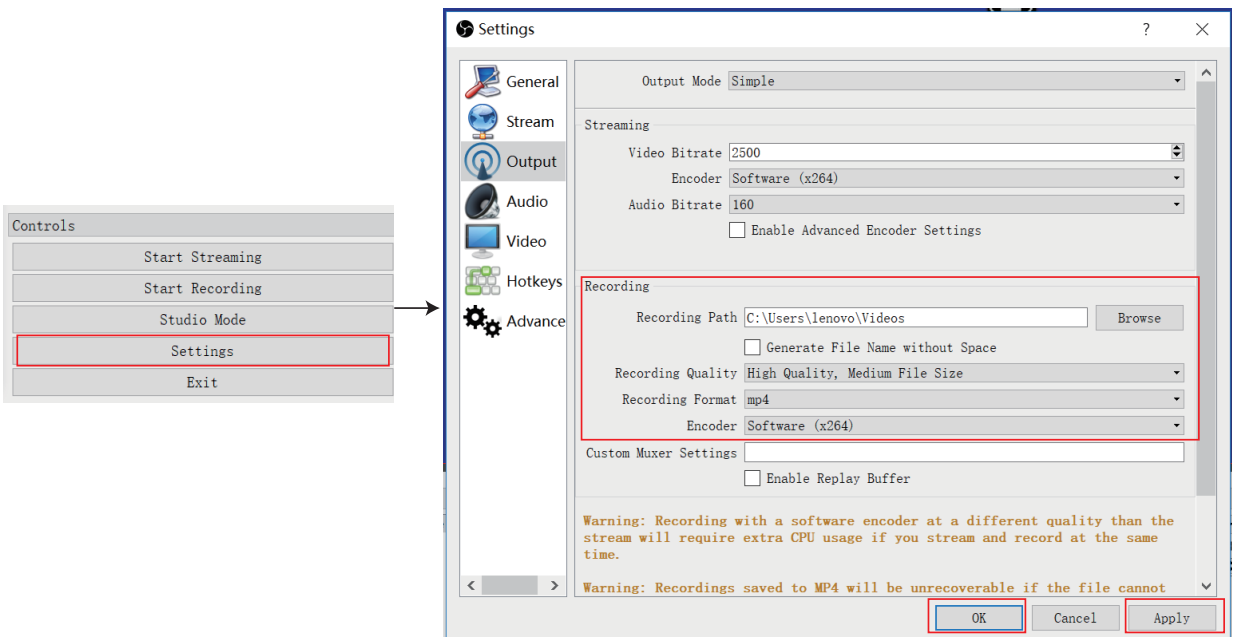
6. Use your mouse to click the Setting icon, you need select “Advanced Audio Properties” option. In the Advanced Audio Properties page, you need select “Monitor and Output” option. Then click “Close” button.



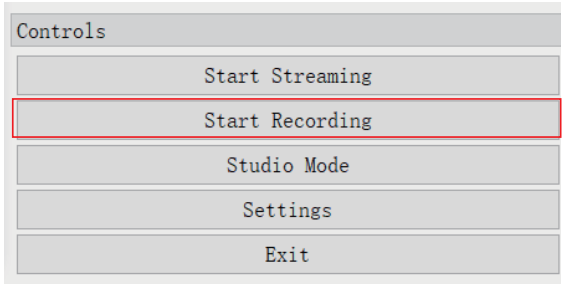
7. In the Setting page, you can select “Video” option. In the page, you can select “Base Resolution” and “Output Resolution”. Then click “Apply” button and “OK” button.



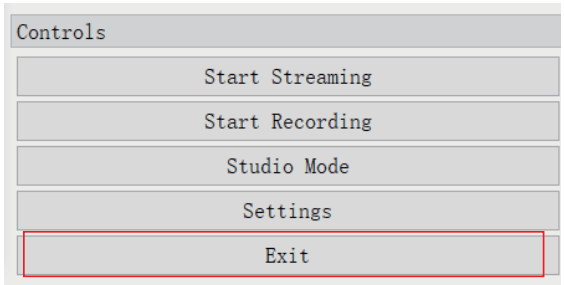
8. Open Setting page, you can select “Output” option. In the page, you can browse recording path for capturing video, select the recording quality, select recording format etc. Then click “Apply” button and “OK” button.



9. When you have finished all settings, you need click the "Start Recording" button to start video capture. If it has finished, click this button again to stop video capture.



10. When the video capture is over, you can click the "Exit" button to close the software.

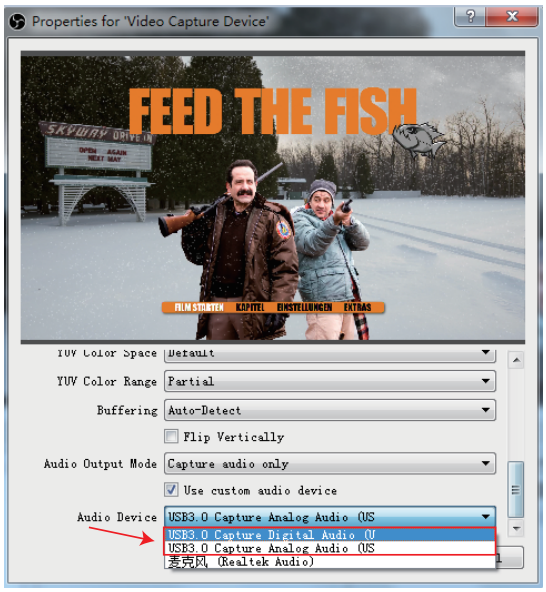


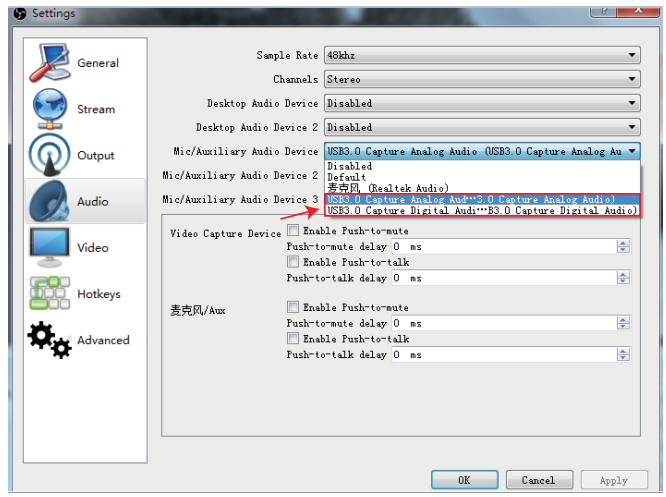
Attention: The all instruction of the software is only about video capture settings at the above content. You can brower other related settings function.

7. The way of select about capture audio

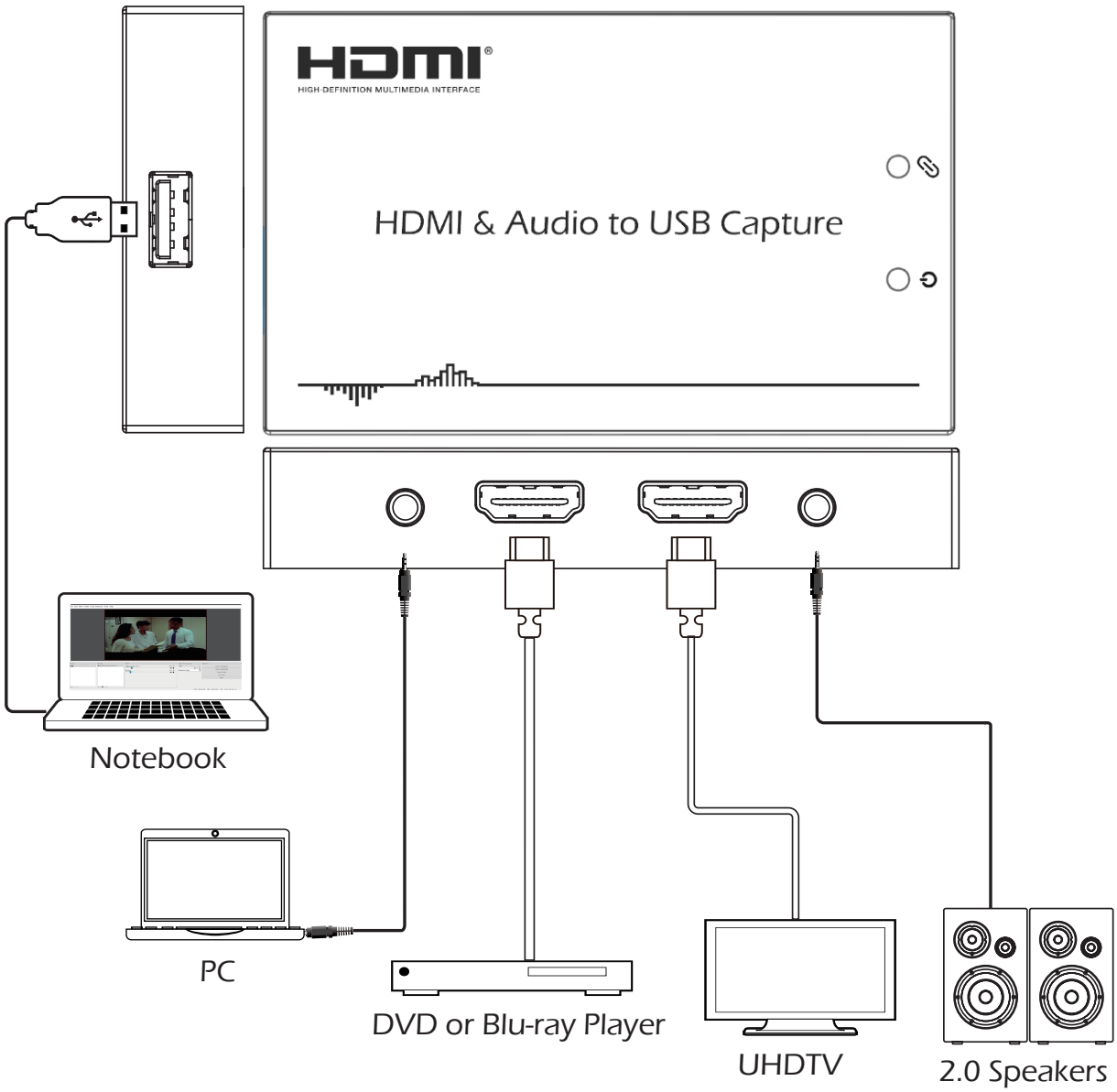
This product supports analog stereo audio and HDMI source audio (digital audio). It has two audio capture ways when it captures video.

For example: OBS (Open Broadcaster Software) software. When the product captures video, it can select analog stereo audio or HDMI source audio. This moment, these two places need to be set up the same. It is be set either "USB3.0 Capture Analog Audio" the same or "USB3.0 Capture Digital Audio" the same. As shown in the image below.





8. Application Example



Quality Assurance

We have developed a strict quality assurance process and built a full-fledged testing laboratory. First-class high and low temperature laboratories, reliability and compatibility ensure that every product undergoes rigorous testing from design to delivery and is delivered free of defects.

After-sales service

We have established a complete after-sales warranty service system to respond to customer requirements in real time and quickly solve customer problems.

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