Lideo

Lideo HTU-4K

HDMI to USB 3.0 Video Capture Dongle

USER MANUAL

Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

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 and extend the life of your equipment.

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1. Introduction

This HDMI to USB video capture dongle has 1 HDMI INPUT, 1 HDMI LOOP OUT and 1 USB OUTPUT. The HDMI INPUT supports inputting videos with resolution up to 4K60. The USB OUTPUT can be used to power the device and capture videos with resolution up to 1080P60. It can be wildly used in video conference, multi-media broadcasting and other HDMI video capturing occasions.

2. Features

☆ HDMI 2.0b, HDCP 2.2, USB 2.0 and USB 3.0 compliant
☆ 18Gbps HDMI video bandwidth,
5Gbps USB video bandwidth
☆ HDMI INPUT video resolution reaches up to 4K2K@60Hz;
USB OUTPUT video resolution has a range between 480i to 1080p60Hz
☆ Support 4K2K@60Hz downscaling to 1080p60Hz
☆ Support 4K60 4:4:4 HDMI loop out
☆ Operative in Windows, Linux and OS X
☆ USB transmission speed up to 300~350Mb/s
☆ Compatible with VLC, OBS, XSPLIT, AMCAP and other video capturing software.
☆ Compact in design, plug and play

3. Package Contents

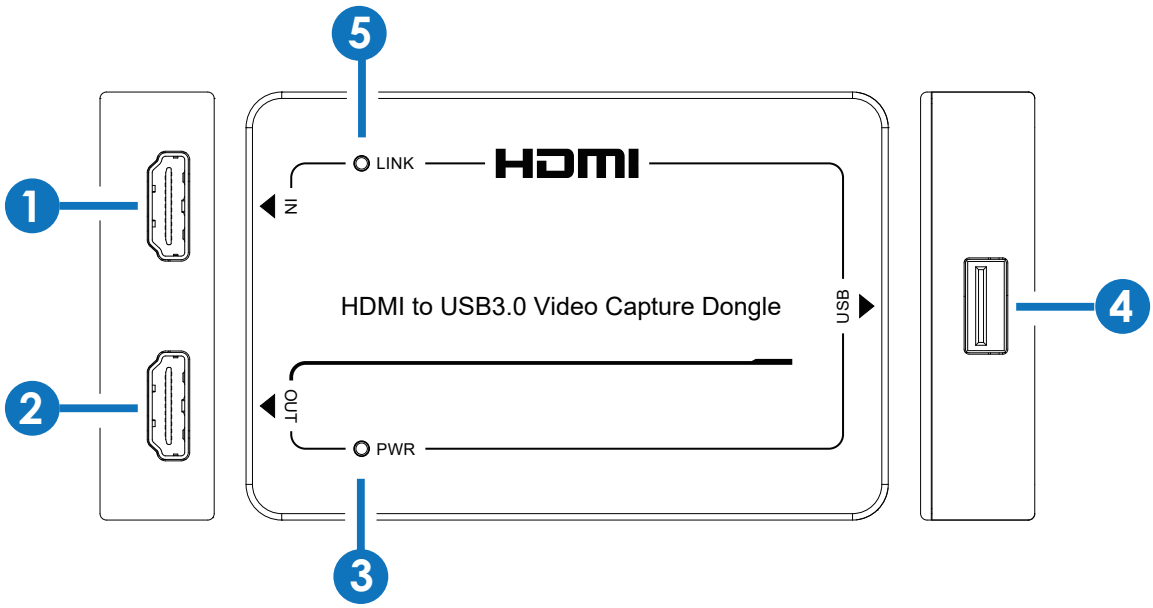
① 1× HDMI to USB Video Capture Dongle
② 1× USB 3.0 Type-A Cable (0.5m, Blue)
③ 1× User Manual

4. Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	HDMI: 18 Gbps; USB: 5Gbps
Video Resolution	Up to 4K2K@60Hz 4:4:4
Video Compression Standards	Video will be in YUV2 with no compression if outputting via a USB 3.0 port; Video will be compressed in MJPEG if outputting via a USB 2.0 port
USB OUTPUT Resolution	Support 4K24/25/30/50/60 INPUT down scaling to 1080P OUTPUT; For resolutions lower than 1080P, INPUT keeps the same as OUTPUT
Color Depth	8/10/12-bit
Color Space	RGB, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0
HDMI Audio Format	PCM 2.0

USB Audio Format	PCM 2.0
USB Version	USB 3.1 GEN 1
ESD Protection	Human body model — ±8kV (air-gap discharge) & ±4kV (contact discharge)
Connection	
Input	1×HDMI Type A [19-pin female]
Outputs	1×HDMI Type A [19-pin female] 1×USB Type A [female]
Mechanical	
Housing	Plastic Enclosure
Color	Black
Dimensions	90mm[W] × 60mm[D] × 16mm[H]
Weight	47g
Power Supply	USB 5V / 900mA
Power Consumption	3.5W (Max)
Operation 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

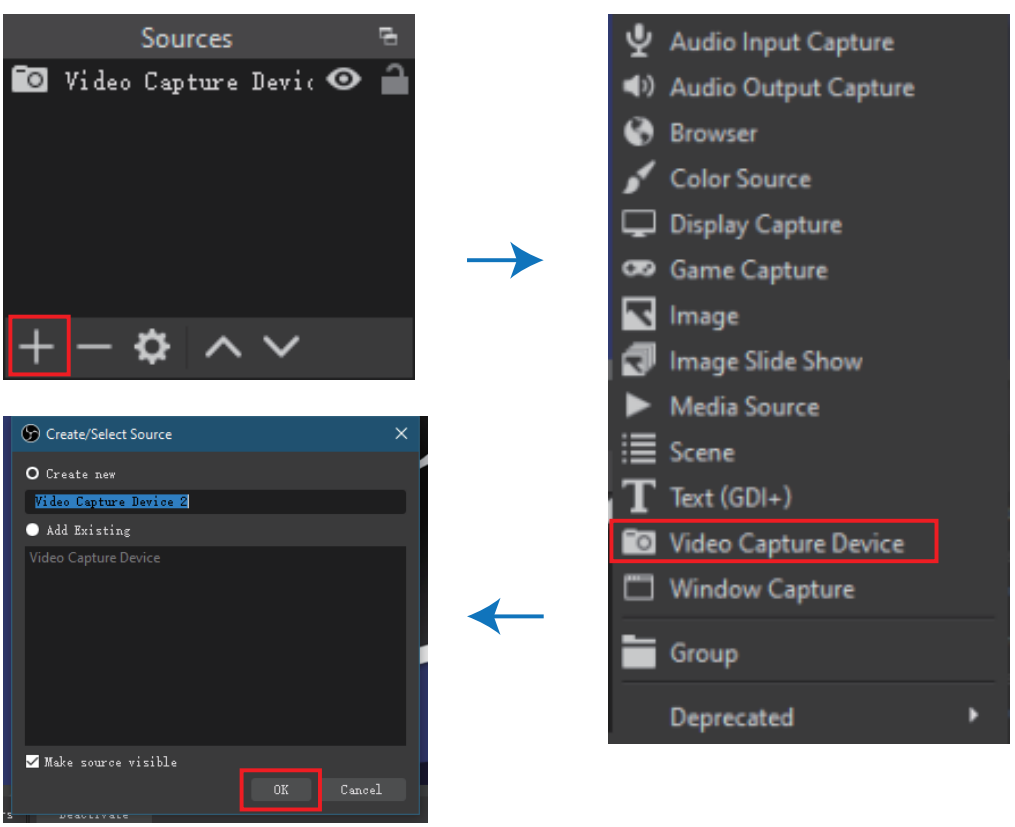


No.	Name	Function Description
1	HDMI IN	HDMI input port, connect to a source device via the HDMI cable.
2	HDMI OUT	HDMI loop out port, connect to a display device such as TV via the HDMI cable.
3	PWR LED (Green)	The power LED lights in green when the device is powered on.
4	USB	USB type-A output port, connect to a PC with the USB cable.
5	LINK LED (Green)	The link LED lights in green when the USB port outputs signals to the connected PC.

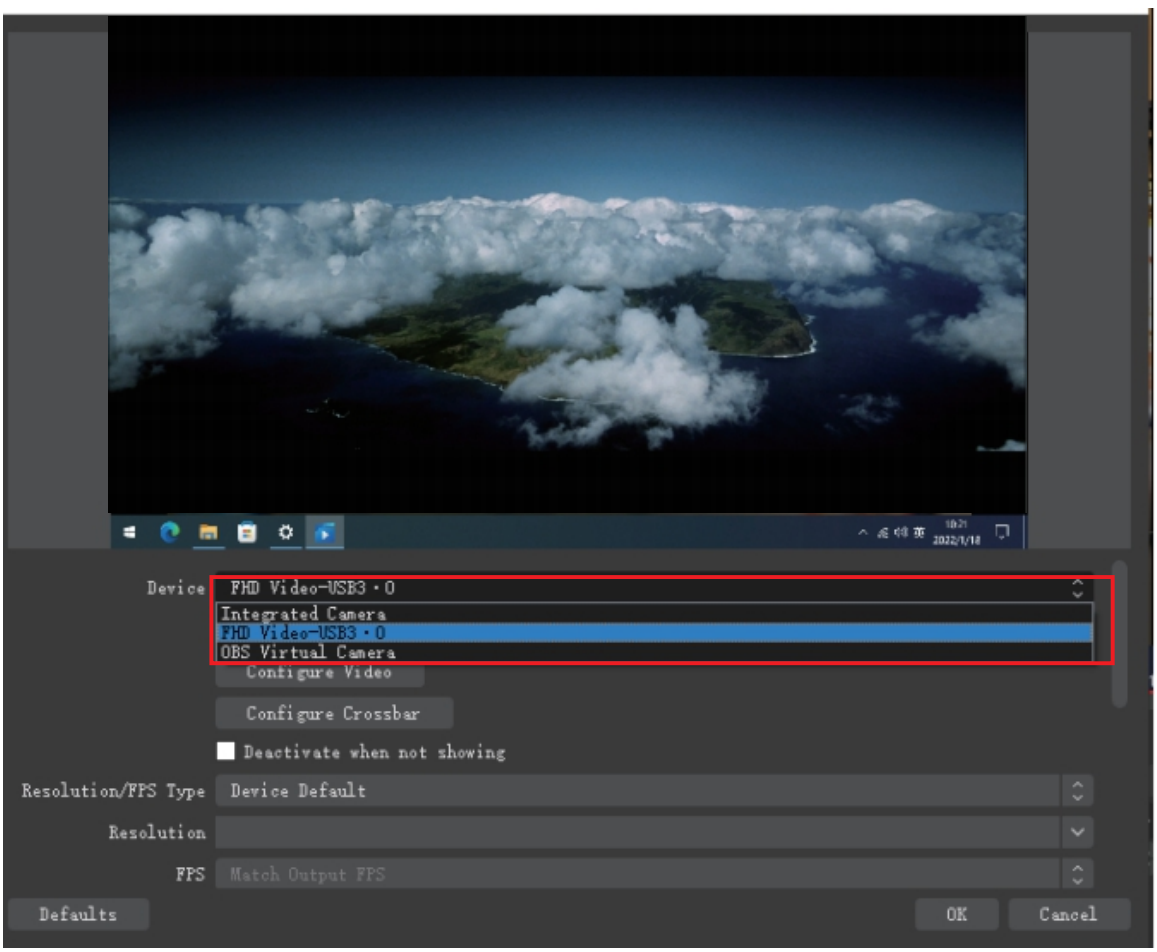
6. OBS Operation Instructions

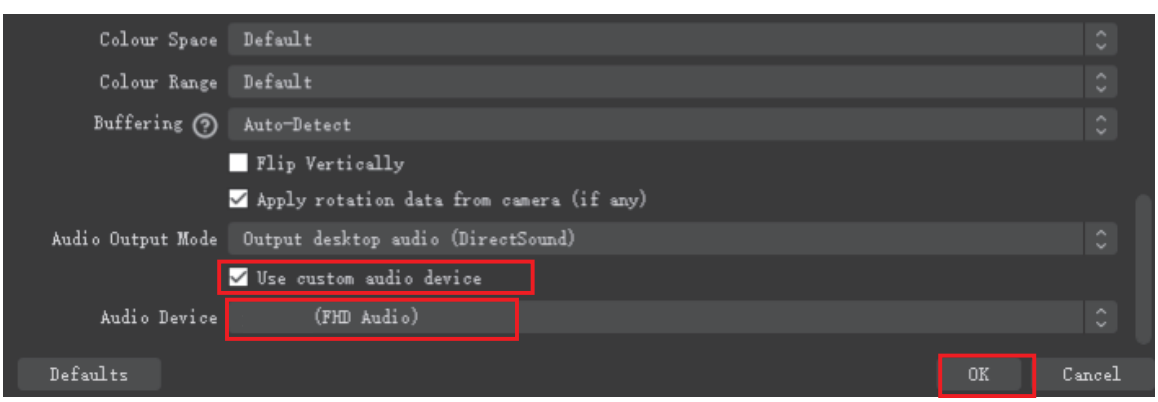
The OBS (Open Broadcaster Software) Studio software needs to be installed in your PC at first before video capture. After device connection, you can follow steps as below to process the OBS settings.

Step 1: Download the “OBS” application to your computer at first.
Step 2: Double-click the OBS shortcut to open the application.
Step 3: Click “+” at the right-bottom corner on the Source window, and select “Video Capture Device”, then click “OK” to select a source video as shown below.

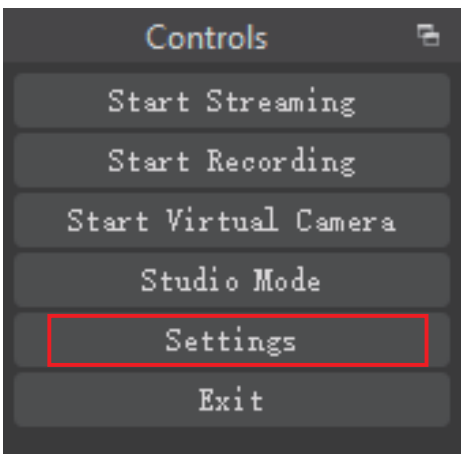


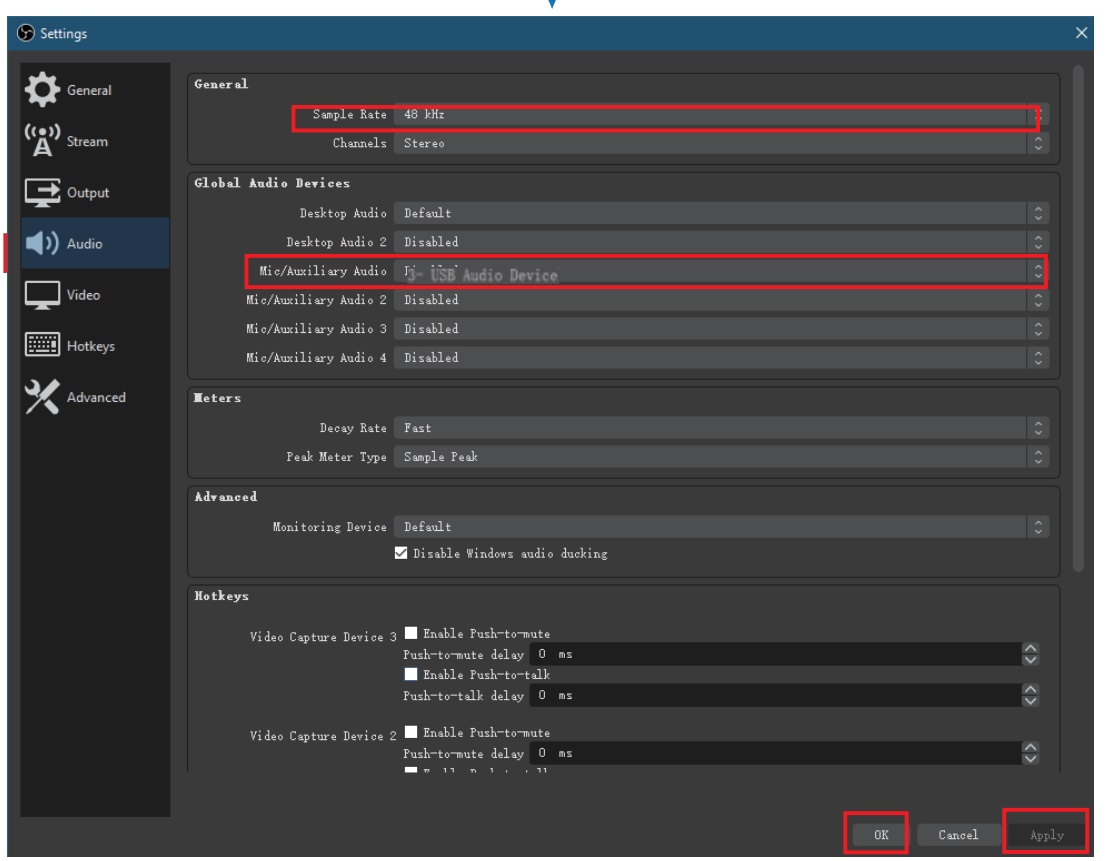
Step 4: Select “FHD Video-USB3.0” from the Device drop-down menu at the beginning of the pop-up Properties page, then check “Use custom audio device” and choose “FHD Audio” at the bottom of the page. After that, click “OK” to save the properties settings.



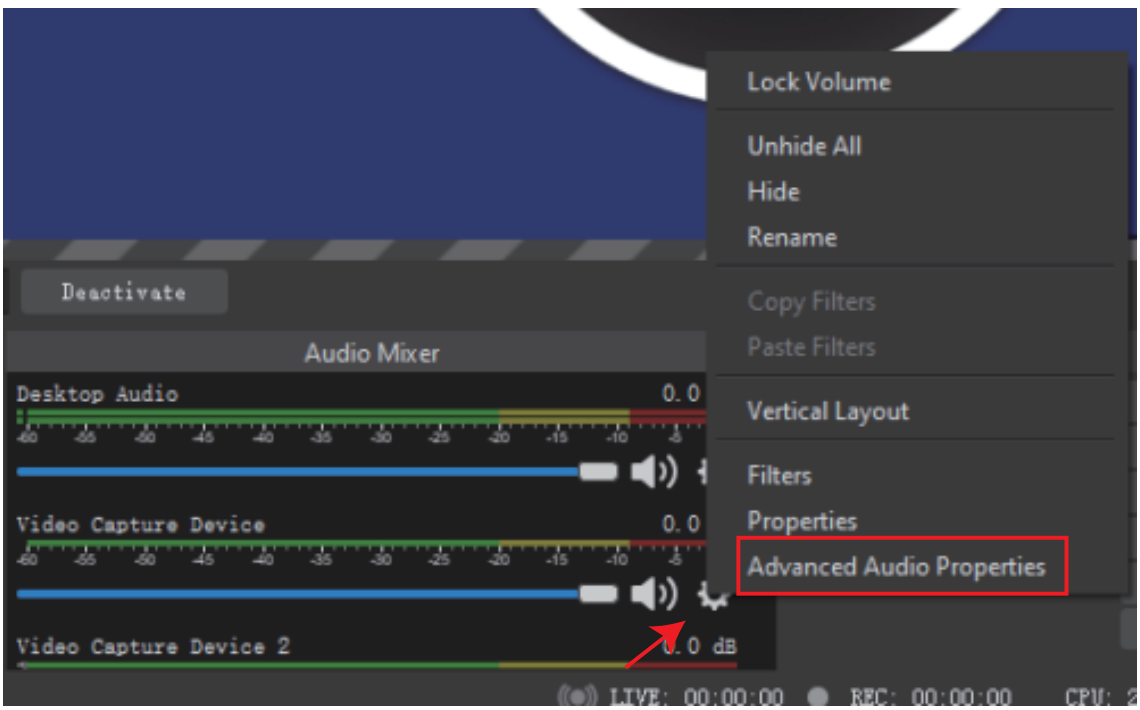


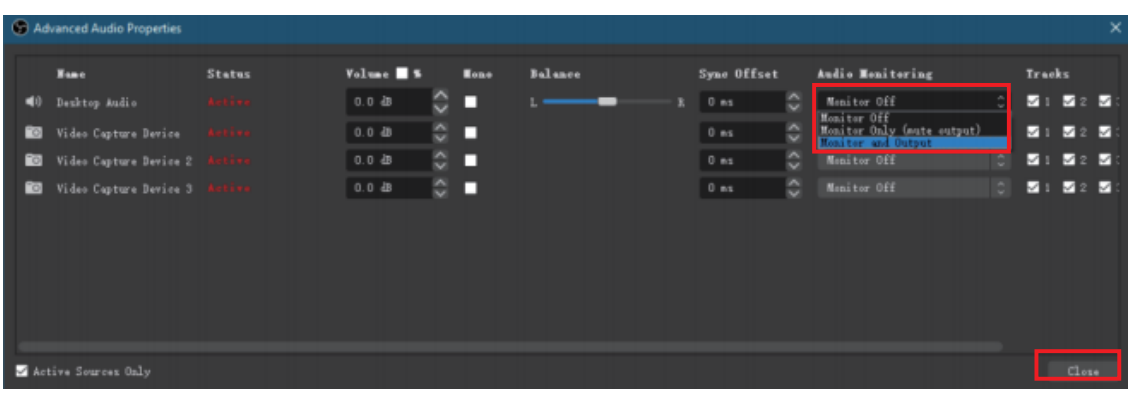
Step 5: On entering the setting page, click the “Audio” tab, then choose “48Khz” as the Sample Rate and “USB3.0 Capture Digital Audio” for “Mic/Auxiliary Audio Device”. After that, click “Apply” and “OK” in turn to save the audio settings.



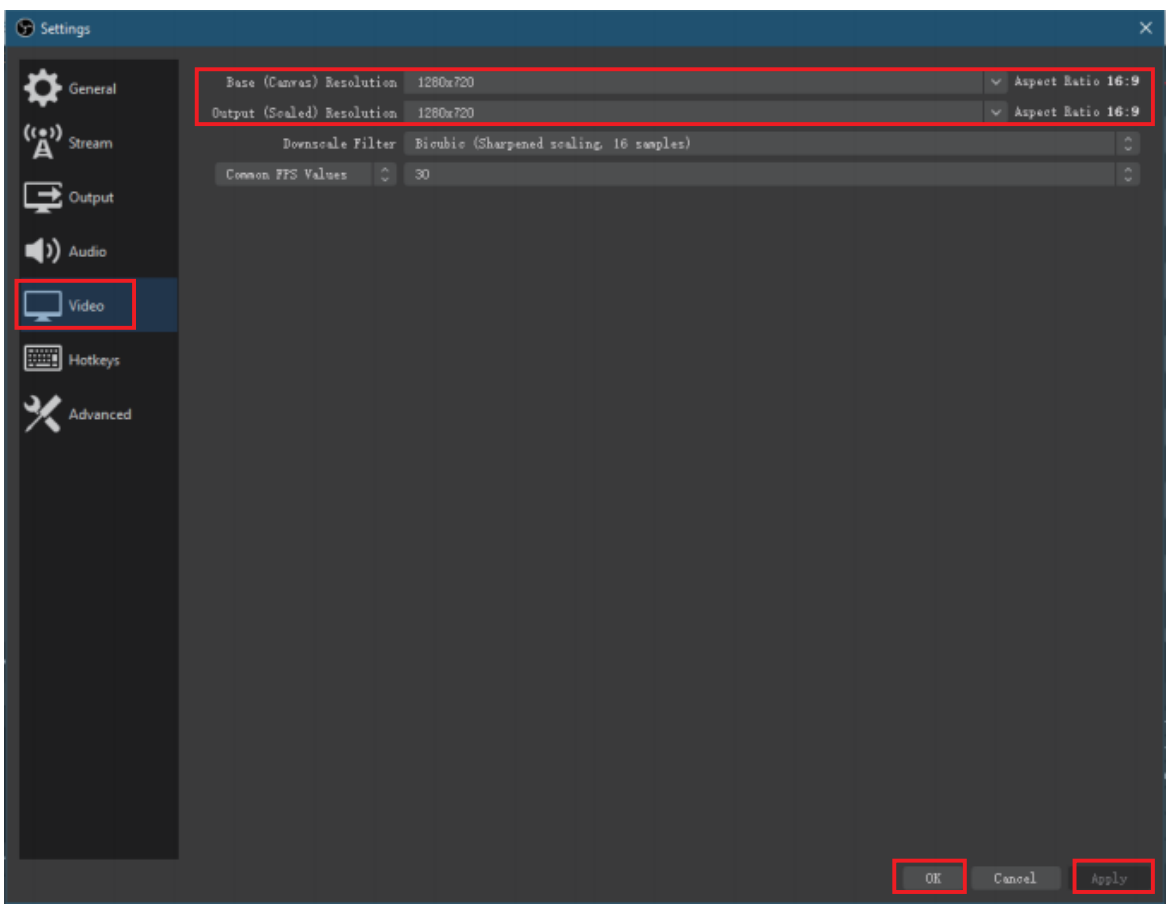


Step 6: Click the setting icon on the Audio Mixer window, and select “Advanced Audio Properties”. When a box pops out, you can choose “Monitor and Output” and click “Close” to exit out of the advanced audio properties settings.

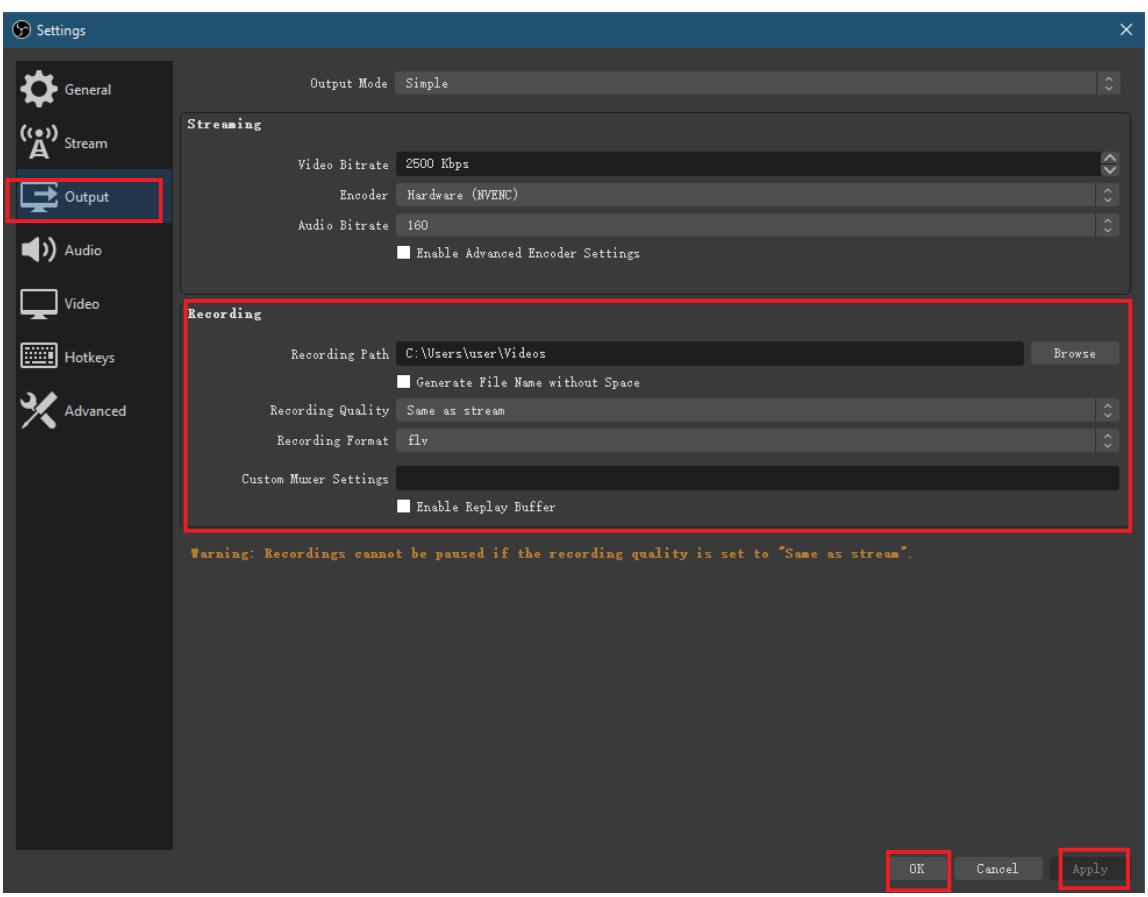




Step 7: On entering the setting page, click the “Video” tab, then you can set “Base Resolution” and “OUTPUT Resolution”. After that, click “Apply” and “OK” in turn to save the Video settings.

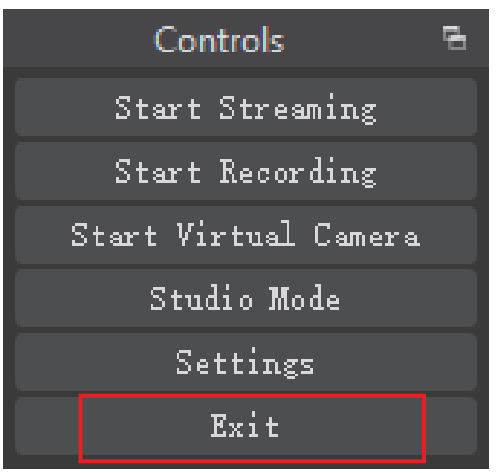


Step 8: On entering the setting page, click the “OUTPUT” tab, then select a “Recording Path”, set “Recording Quality”, “Recording Format” etc. After that, click “Apply” and “OK” in turn to save the Output settings.

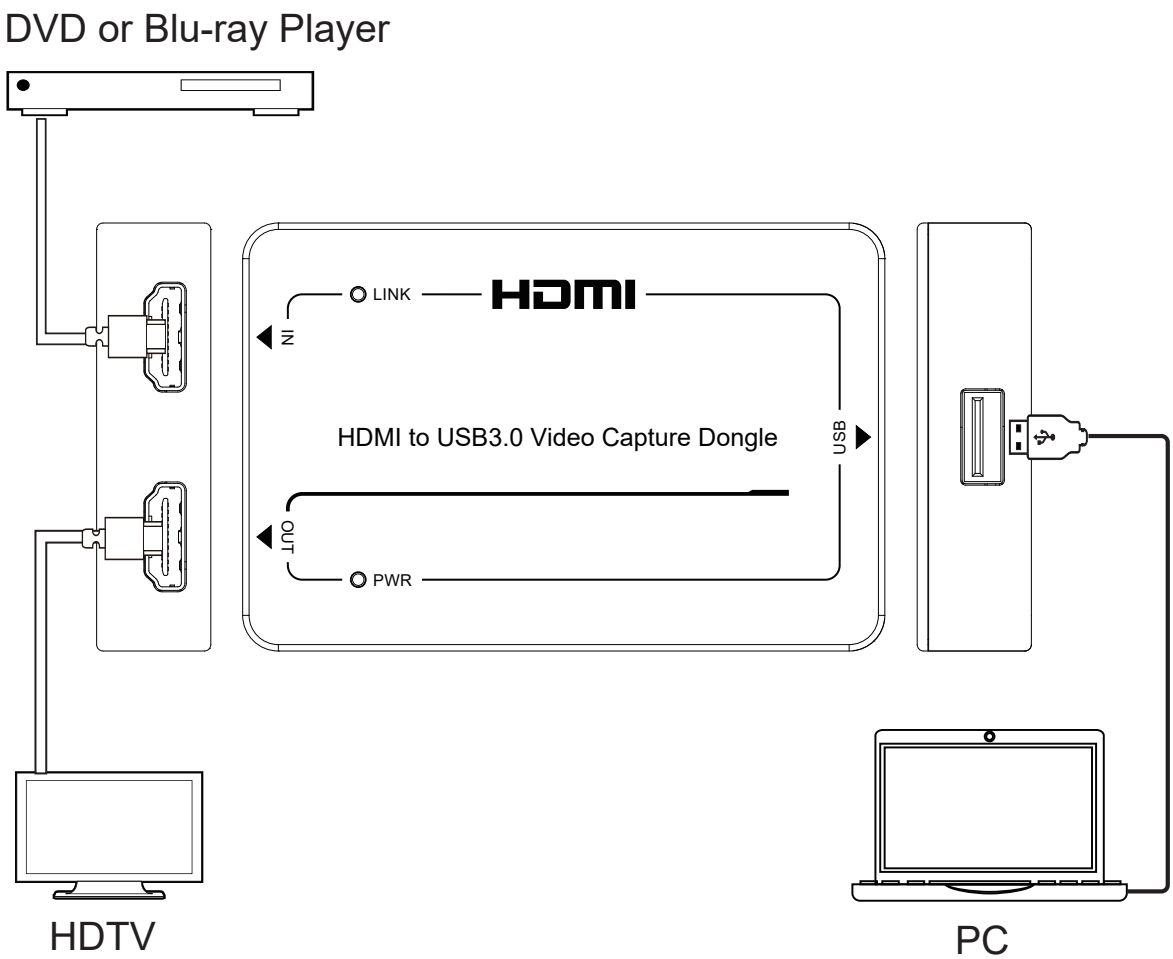


Step 9: When all settings have been completed, click “Start Recording” to start video capture. Clicking it again, the video capture will be stopped.

Step 10: When the video is captured, click “Exit” and the software will be closed.



7. Application Example



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