iSwitch UVC03K

USB 3.0 4K Ultra HD Video Capture Card

User Manual V2.0

Special Notice

To ensure the best performance of the product and correct using, please read the instructions carefully before connecting, operating, or debugging this product, and keep this manual for reference.

Cannot record 4K image when HDMI input resolution is less than 4K.

The stuttering phenomenon when recording the screen indicates that the computer hardware configuration is too low, please reduce the recording resolution or change to a higher configuration computer.

Introduction

This product can easily mix and record HDMI 4K high-definition video and audio from an external microphone to your computer through third-party acquisition software, or live broadcast through the Internet.

Features

- One HDMI Input, one HDMI Loop Output. Monitoring and recording.
- Use USB 3.0 to record full HD images at high-speed.
- Support most software, such as PotPlayer, VLC, OBS…
- No need to install driver, plug and play.
- Support NV12, YUY2, XRGB/RGB32 video formats.
- Support HDMI 4K/60hz resolution input.
- Support capturing 4K/30Hz resolution.
- High-quality aluminum alloy material.
- Support 3.5mm/TRS microphone input and audio out.
- Support UVC, UAC without any software or settings.

Datasheet

Model	iSwitch UVC03K
Name	USB 3.0 4K Ultra HD Video Capture Card
USB Bandwidth	USB 3.0 300-350MB/s, USB 2.0 40MB/s
Input	HDMI 1x
HDMI Resolution	480i, 480p, 576p, 720p50, 720p60, 1080i50, 1080p60, 1080p24/25/30/50/60, 4K/60
Frame Rate	25/29.97/30/50/59.94/60fps
Capture audio and video	Support UVC and UAC
Support OS	Windows 7, 8, 10 or 11, 64bit; macOS 10.12 version or higher; Ubuntu 16.04 LTS 64bit or higher; Android 9.0 or higher
Support software	OBS, VLC, PotPlayer, Windows media Encoder, Adobe Flash Media Live-Encoder, Real Producer Plus, Quick Time Broadcaster, Quick Time Player, Wirecast, vMix and etc.
Dimension	105x68x25 LWH, mm
Power	max. 25W
Operating Temp.	0-50 degrees C
Storage Temp.	-20 to 70 degrees C
Humidity	5% to 90%

Computer hardware requirements

Configuration	Desktop PC	Laptop PC
CPU	Intel Core i5-6xxx or	Intel Core i7-7700HQ or higher

|		
	higher	
Graphics card	NVIDIA Ge-Force GTX 1060 or higher	NVIDIA Ge-Force GTX 1050 or higher
Ram	8G (Dual Channel)	8G (Dual Channel)

Support third-party software

✧ OBS Studio (Windows, OS X)
✧ Windows media Encoder (Windows)
✧ Adobe Flash Media Live-Encoder (Windows, OS X)
✧ Real Producer Plus (Windows)
✧ VLC (Windows, OS X Linux)
✧ Quick Time Broadcaster (OS X)
✧ Quick Time player (OS X)
✧ Wirecast (Windows,OS X)
✧ vMix (Windows)
✧ PotPlayer (Windows) and etc

Product Specifications

● HDMI Input and loop-out max. resolution: 4k60 4:4:4
● HDMI input max audio sampling rate: PCM48Khz
● USB3.0 Highest bandwidth: 3Gbps
● USB2.0 Highest bandwidth: 311Mbps
● 3.5mm headphone output power: 32Ω/50 MW
● Working Current: 5V/0.9A
● Working temperature range:-40℃ ~ +85℃
● Working humidity range: 90% RH No condensation
● Product size: 105x68x25mm
● Material: Aluminum alloy
● Color: Blue and Red
● Net Weight: 131g

Interface Introductions
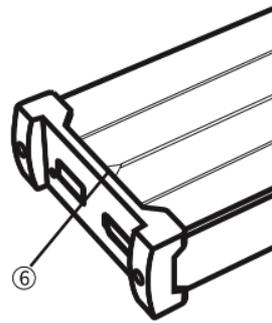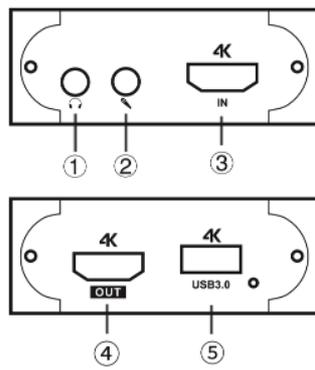
(1) 3.5mm headset output port.

(2) 3.5mm microphone input port.

(3) HDMI Input, connect to HDMI signal such as Computer, Game console, DVD.

(4) HDMI Output, connect to HDMI display such as TV, Monitor, Projector, etc.

(5) USB3.0 TYPE-A port, connect to computer.

(6) Action indicator: Illuminates when capturing.

Connection Diagram
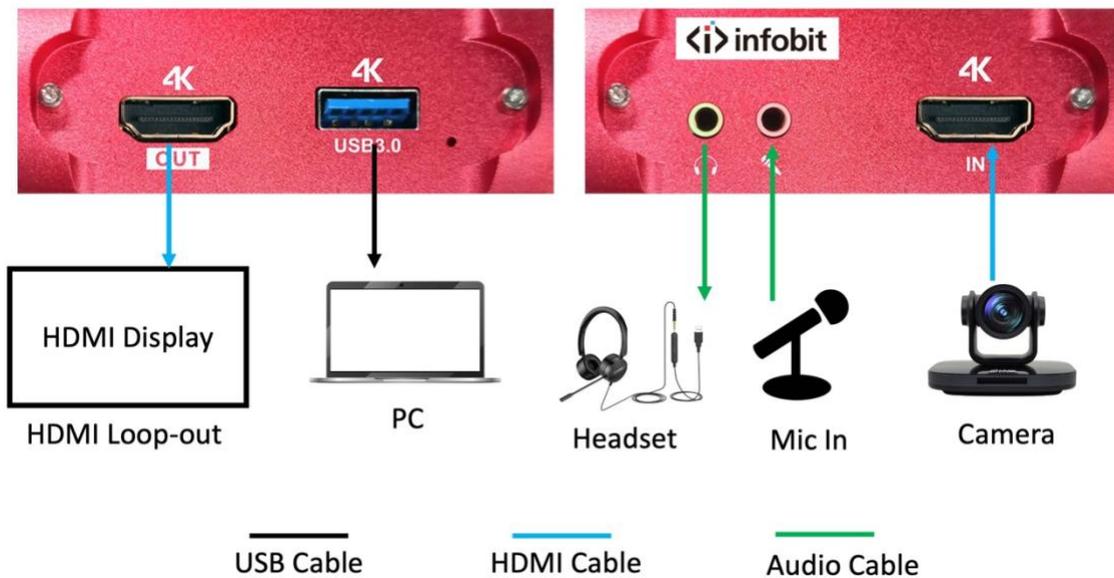
1. Connect HDMI IN to computer, game console, DVD.
2. Connect Output port of capture card to display devices, such as TV, Monitor, Projector, etc.
3. Connect the USB3.0 to computer.

4. Connect 3.5mm to headphones, microphones, and headsets.

How to setup capture in PotPlayer (Windows)

1. Install "PotPlayer" software on the computer.
2. Click upper left corner "PotPlayer" icon→ "Open"→ "Device Settings"→ "Analog TV"
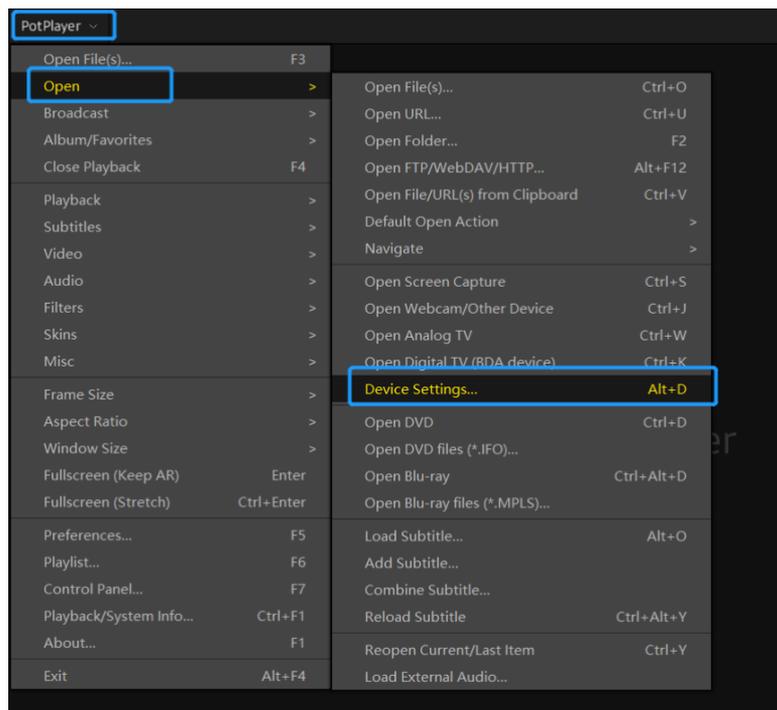
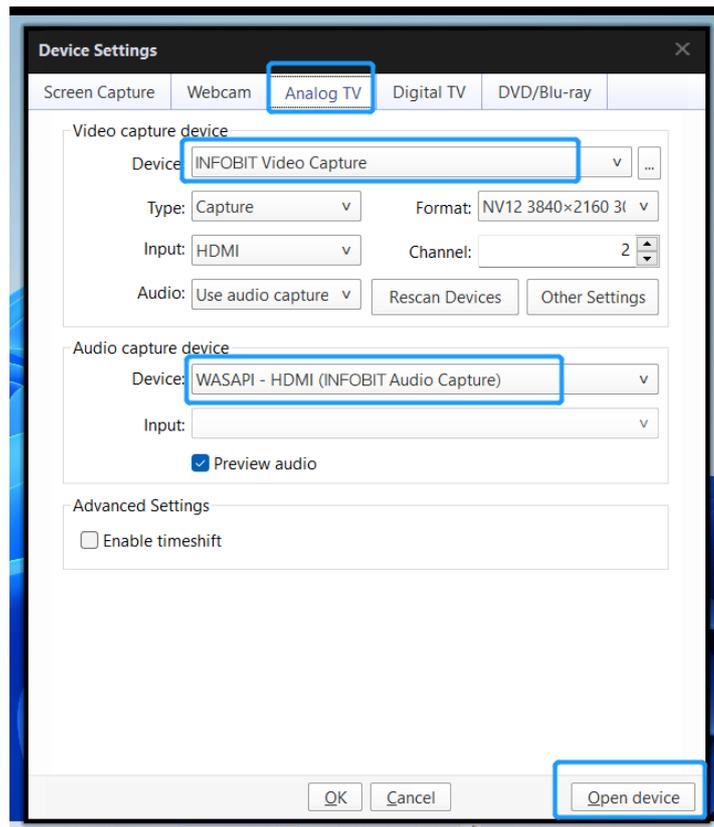Select "INFOBIT Video Capture" in the Device option.
Select "Capture" in the Type option.
Select "HDMI" in the Input option.
Select suitable capture resolution in the Format option.
Select "WASAPI-HDMI (INFOBIT Audio Capture)" in the Audio Capture Device option.
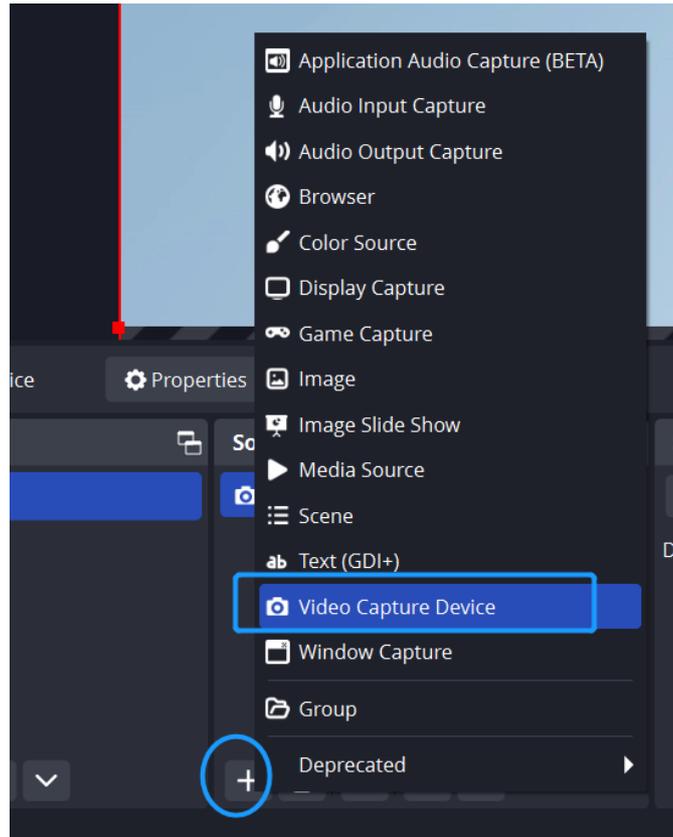Click "Open device" to open the capture interface.

3. Click "PotPlayer"→ "Video"→ "Video Recording"→ "Record Video" or use the key "Alt+C" to open the Video recorder page.
Select storage path.
Set video and audio capture settings.
Start to capture video and audio.
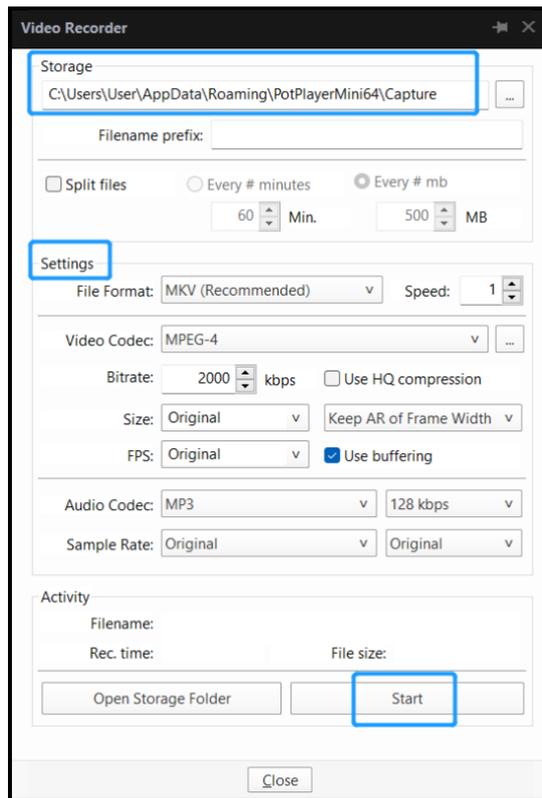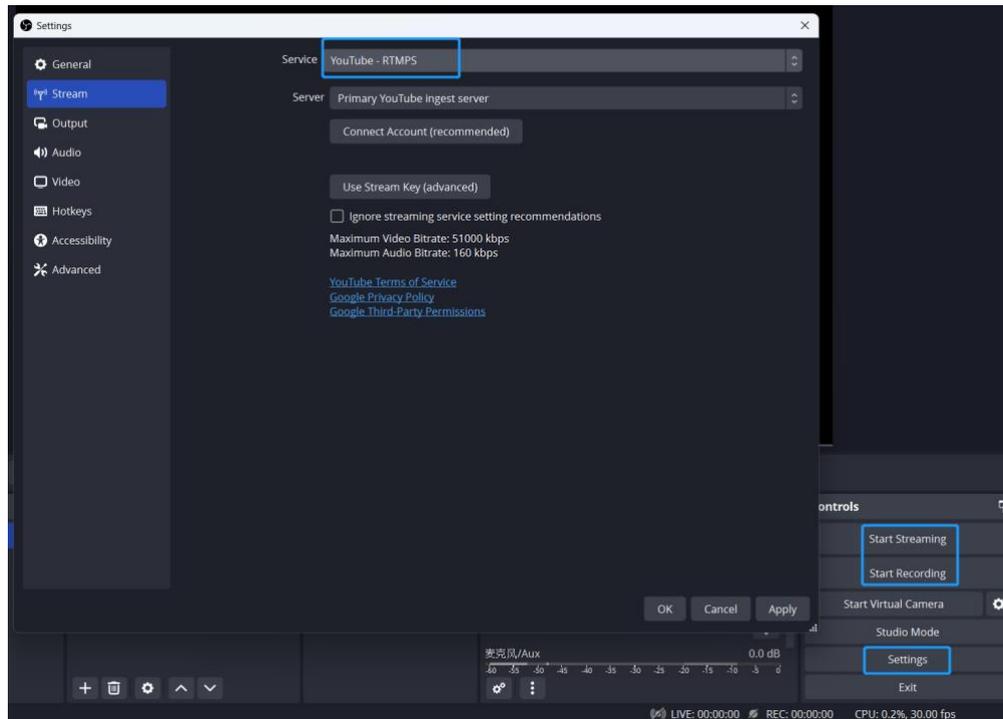
How to setup capture in OBS (Windows)

1. Open OBS→ Click "+" to choose "Video Capture Device"

2. Click "Properties" for Video Capture Device→ Device (INFOBIT Video Capture)→ Resolution/FPS Type (Custom)→ Resolution (1920*1080)→ FPS (30pfs)→Video Format (YUY2)→ Audio Output Mode (Capture audio only)→ Check "Use custom audio device"→ Audio Device (INOFIBT Audio Capture)→ OK
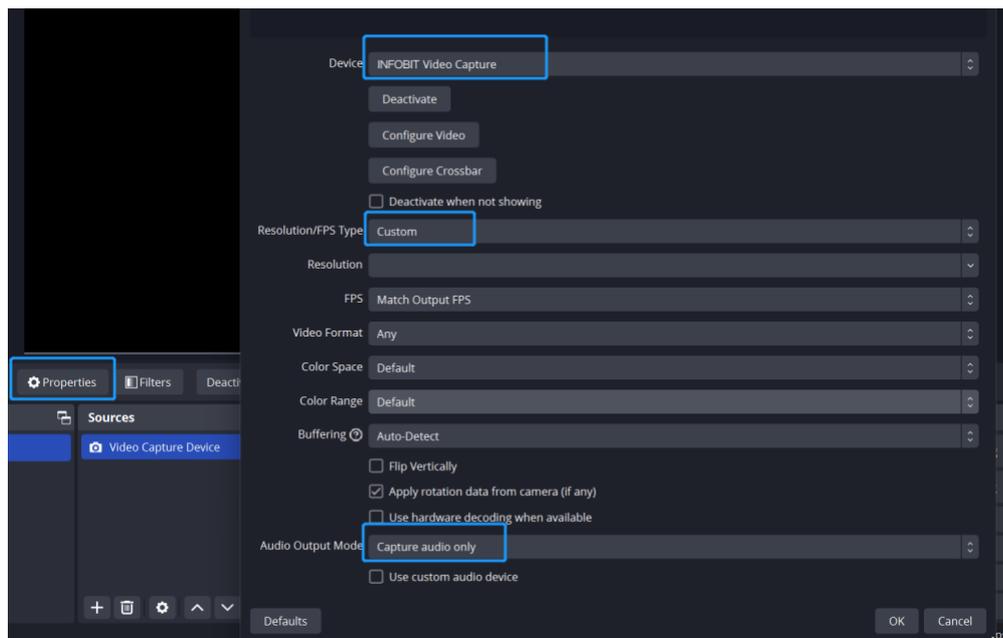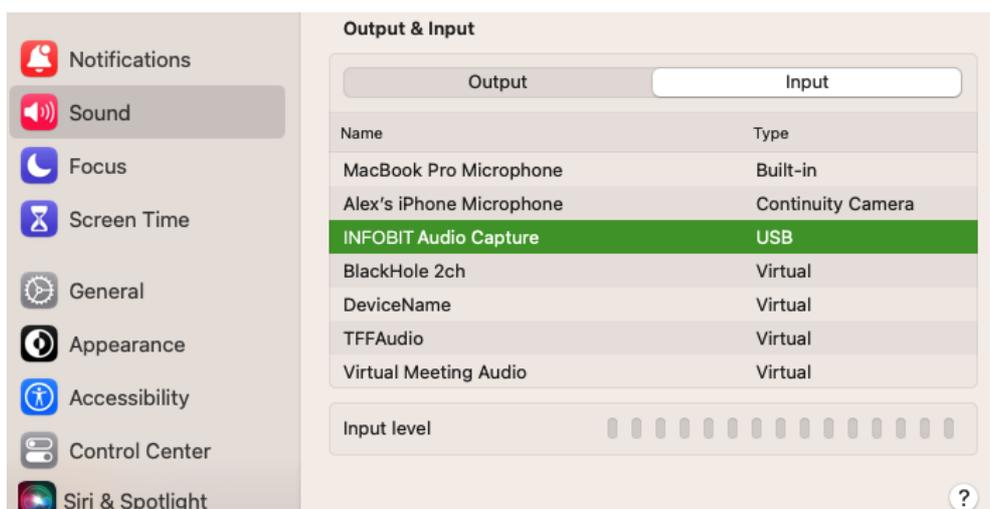
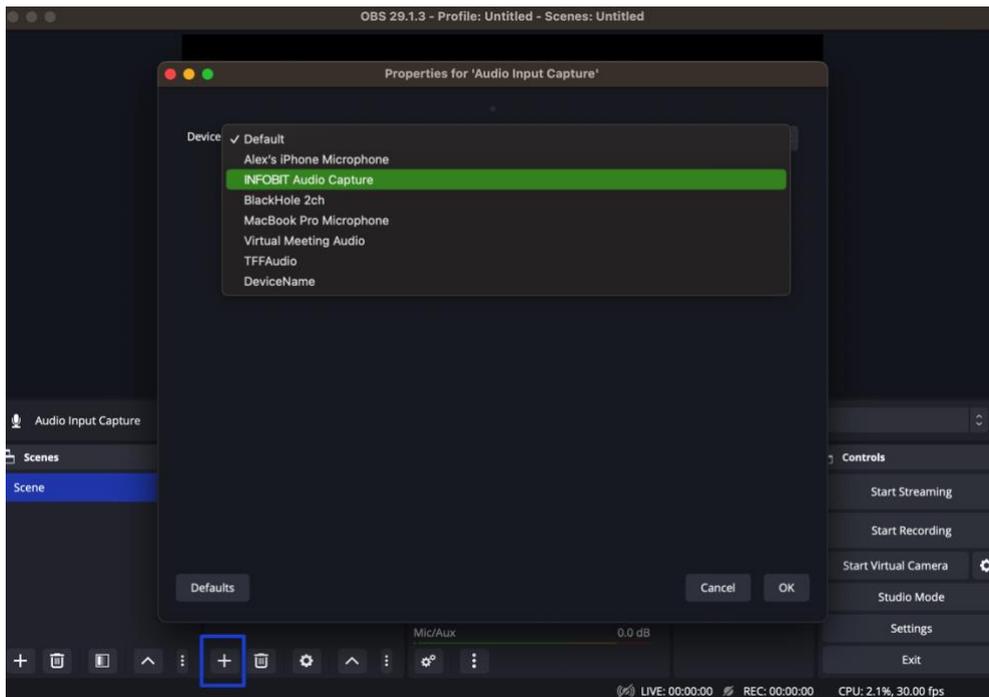3. Settings→ Stream→ Select your Live service (YouTube/ Twitch…), input your channel stream key→ OK

How to setup capture in OBS (macOS)
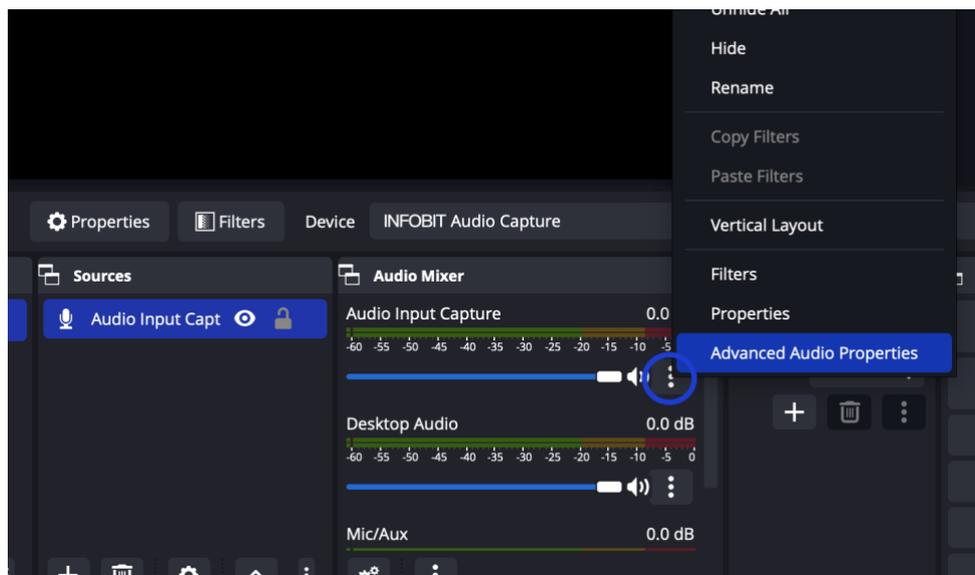
1. Open your macOS system preferences, select "Sound"→ "INFOBIT Audio Capture".

2. Open OBS→ Click "+" to choose "Video Capture Device"
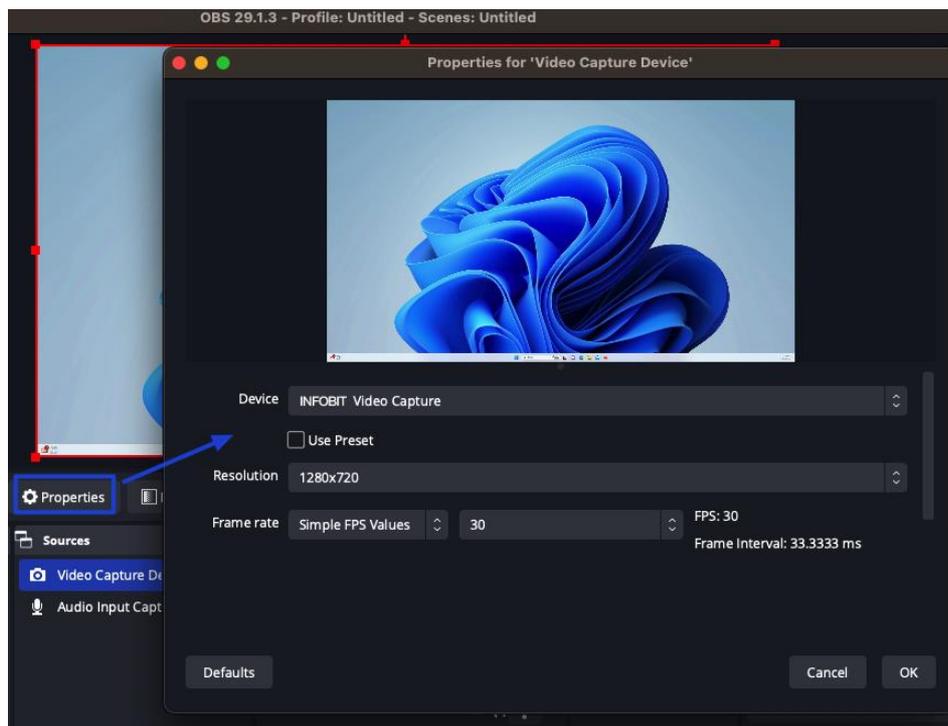
3. Click settings under the "Audio Mixer" option→ "Advanced Audio Properties"→ "Monitor and Output".
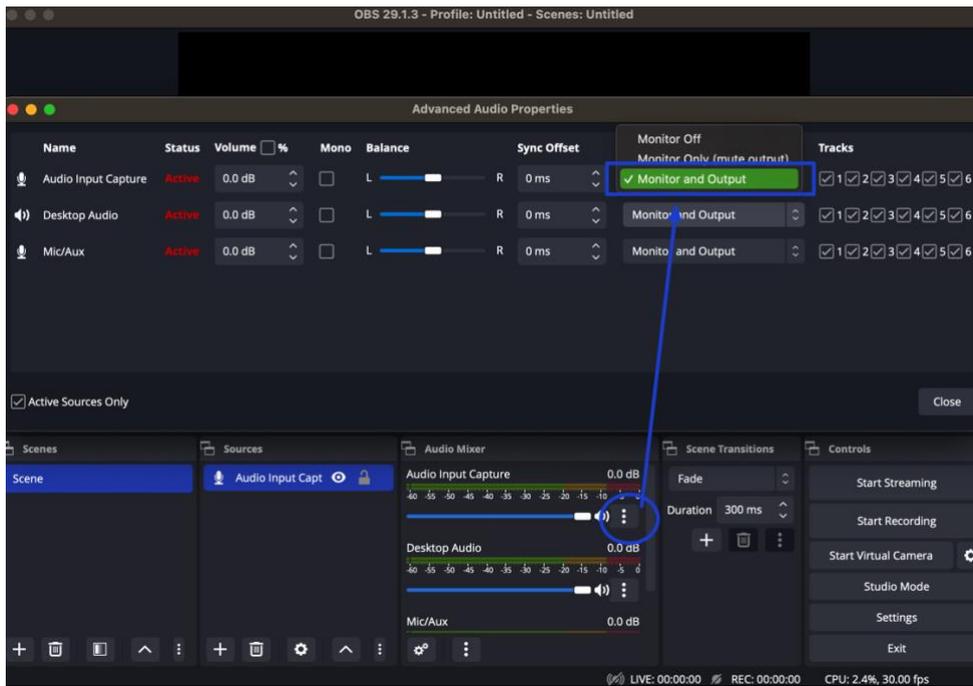
4. Click "Properties"➜ Select "INFOBIT Video Capture", setup Resolution and Frame rate.

FAQ

1. No Capture

a. Confirm whether the video signal source is transmitted to the iSwitch UVC03K successfully (if the source is from PC, you can find two display icons in your

display settings; Or connect the loop-out port to a monitor to check whether images are normal displaying).

b. Confirm whether PC has properly recognized the iSwitch UVC03K (In PC's Device Manager, and no exclamation icon is found).

c. If the above-mentioned two methods are normal, suggest customers changing to a USB3.0 Port (not USB 2.0) and test again.

d. Confirm whether all ports are properly connected.

e. Confirm whether setting parameters of the software (OBS, PotPlay…) are correct.

2. Audio Issue
Fail to capture sound.
a. Confirm the iSwitch UVC03K is selected by the audio output device on the signal source PC (right click the audio device on the bottom-right corner of your PC screen, to select "INFOBIT Audio Capture"; Or please connect to the audio loop-out port to check whether audio is normal.

b. Confirm whether PC has properly recognized the iSwitch UVC03K (In PC's Device Manager, and no exclamation icon is found).

c. Confirm whether sound wave line is fluctuating (click the audio icon on the bottom-right corner of computer-recording device, then select our capture card to check)

d. If it still fails to capture audio, please add an audio input capture on OBS then set "Monitor and Input" in the advanced audio settings.

f. If sound is intermittent, please right-click the audio icon on the bottom-right corner of computer-select our capture card in the recording device‐ right click Advanced Attributes in computer to confirm whether 48KHz is fixed.

3. Image issue
Images captured by OBS is green or with vertical lines.
a. To solve such issue, please update to the newest firmware.

Images from the Loop-out is green or red.

a. This issue is caused by the YUV format is setup as the screen's color space. Please change its color space to RGB format.

Video and audio are delayed.
a. If customers do experience video lag or audio delay, there may be a problem with computer configuration, or two same devices are used which occupies the APP. Please change the audio to fixed 48KHz.

Note

- Does not use HUB or USB extend cable.
- Low computer configuration will cause irregular flickering or black screen in the recording screen.
- For signal processing reasons, you will find that the recorded picture is out of sync with the original picture, which is normal.
- Cannot record 4K resolution when HDMI input resolution is less than 4K.
- Cannot record 4K resolution while connect to USB 2.0 port of computer.

Technical support

Please contact info@infobitav.com for any technical support.