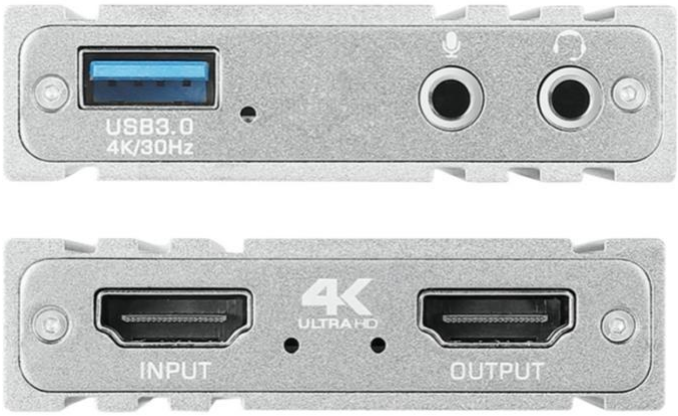
iSwitch UVC03K

USB 3.0 4K Ultra HD Video Capture Card

User Manual V1.0



In order 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.

Special Notice:
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 acquisition software, such as VLC, OBS, etc
- No need to install the driver, plug and play.
- Support record 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
- Support 3.5mm/TRS headphone output

Support Resolution:

HDMI Input Resolution	Video Format	USB Capture Support Resolution				
3840X2160@ 60/50/30hz	NV12	3840x2160	2560x1440	1920x1080	1280x720	640x480
		30hz/25hz	60/50/30/25hz	60/50/30/ 25hz	60/50/30/ 25hz	60/50/30 /25hz
	YUY2	2560x1440	1920x1080	1280x720	640x480	
		50/30/25hz	60/50/30/25hz	60/50/30/25hz	60/50/30/25hz	
	XRGB/ RGB32		1920x1080	1280x720	640x480	
			30hz/25hz	60/50/30/25hz	60/50/30/25hz	
3840X2160@ 25hz	NV12	3840x2160	2560x1440	1920x1080	1280x720	640x480
		25hz	60/50/30/25hz	60/50/30/ 25hz	60/50/30/ 25hz	60/50/30 /25hz
	YUY2	2560x1440	1920x1080	1280x720	640x480	
		50/30/25hz	60/50/30/25hz	60/50/30/25hz	60/50/30/25hz	
	XRGB/ RGB32		1920x1080	1280x720	640x480	
			30/25hz	60/50/30/25hz	60/50/30/25hz	
1080P/1080i/ 720P@60/50hz 480I/480P/576I/ 576P	NV12		1920x1080	1280x720	640x480	
	YUY2		60/50/30/25hz	60/50/30/25hz	60/50/30/25hz	
	XRGB/ RGB32		1920x1080	1280x720	640x480	
			30/25hz	60/50/30/25hz	60/50/30/25hz	

Support Operating System:

Operating System	Support System Version		
Windows	Windows7 Sp1 64bit	Windows8.1 64bit	Windows10 64bit
Mac OS	System Software 10.12 version or higher		
Linux	Ubuntu 16.04 LTS 64bit		
Android	Android 9 Version or higher		

Computer hardware configuration requirements:

Configuration	Desktop Computer	Laptop
CPU	Intel Core i5-6xxx or above	Intel Core i7-7700HQ or above
Graphics card	NVIDIA Ge-Force GTX 1060 or above	NVIDIA Ge-Force GTX 1050 Ti or above
RAM	8G（Dual Channel）	8G（Dual Channel）

Support third-party software:

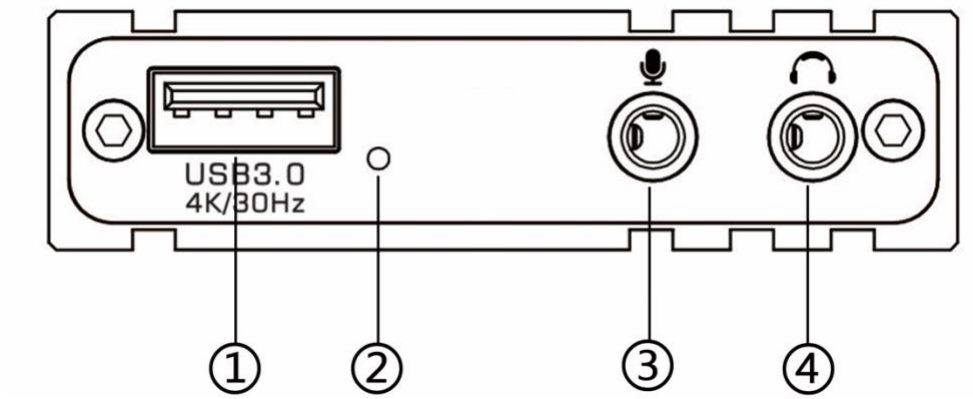
✧ OBS Studio (Windows, OS X)
✧ Windows media Encoder (Windows)
✧ Adobe Flash Media Live-Encoder (Windows, OS X)
✧ Real Producer Plus (Windows)
✧ VLC (Windows, OS X Linux)
✧ Quick Time Broadcaster (OS X)
✧ Quick Time player (OS X)
✧ Wirecast (Windows,OS X)
✧ vMix (Windows)
✧ PotPlayer (Windows) and etc

Product Specifications:

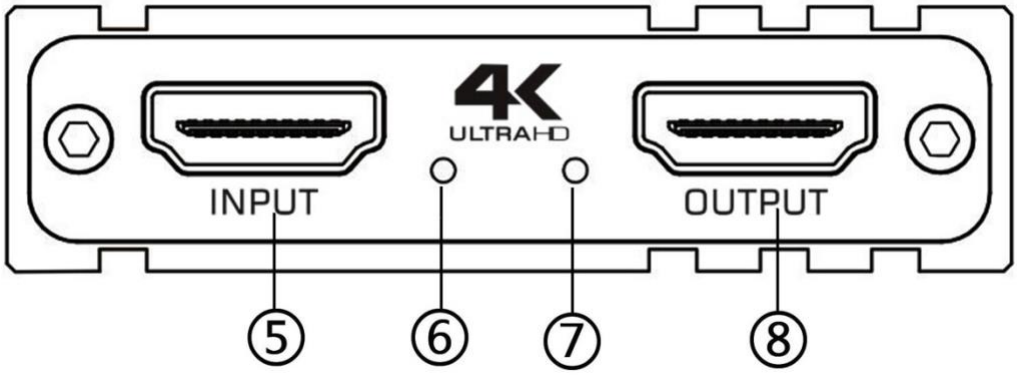
- HDMI Input and loop output maximum resolution: 4k60 4:4:4
- HDMI input max audio sampling rate: PCM48Khz
- USB3.0 Highest bandwidth: 3Gbps
- USB2.0 Highest bandwidth: 311Mbps
- 3.5mm headphone output power: 32Ω/50 MW
- Working Current: 5V/0.9A
- Working temperature range: -40℃ ~ +85℃

- Working humidity range: 90% RH No condensation
- Product size: 102.5x63.2x16.6mm
- Material: Aluminum alloy
- Color: Space Gray
- Net Weight: 131g

Interface Introductions:

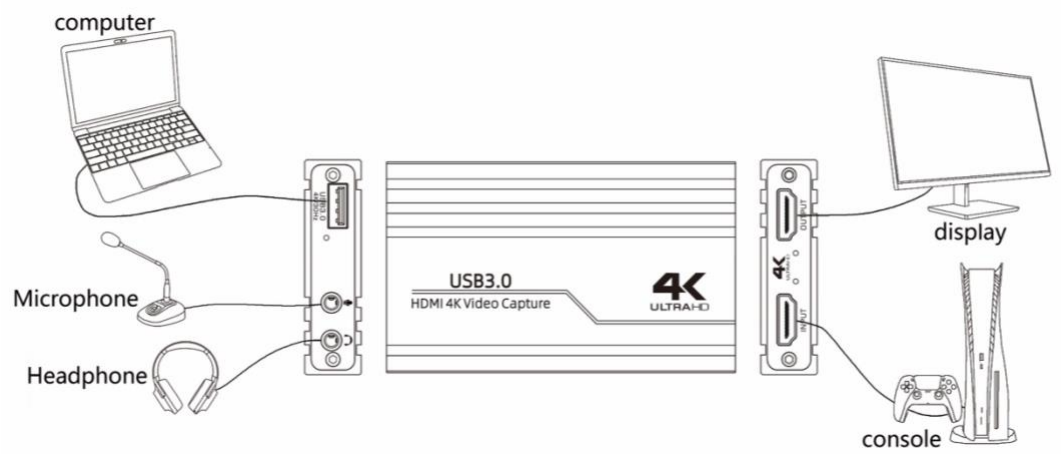


① USB3.0 TYPE-A port, connect to USB3.0 port of Computer.
② Power indicator light.
③ 3.5mm microphone input port, connect to microphone
④ 3.5mm headset output port, connect to headset or stereo system.



⑤ HDMI Input, connect to HDMI signal via HDMI cable, such as Computer, Game console, DVD.
⑥ HDMI Input indicator light, light on when connect correctly.
⑦ Recording indicator light, light on when not recording, flashing in recording status.
⑧ HDMI Output, connect to HDMI signal via HDMI cable, such as TV, Monitor, Projector, etc.

Connection Diagram:

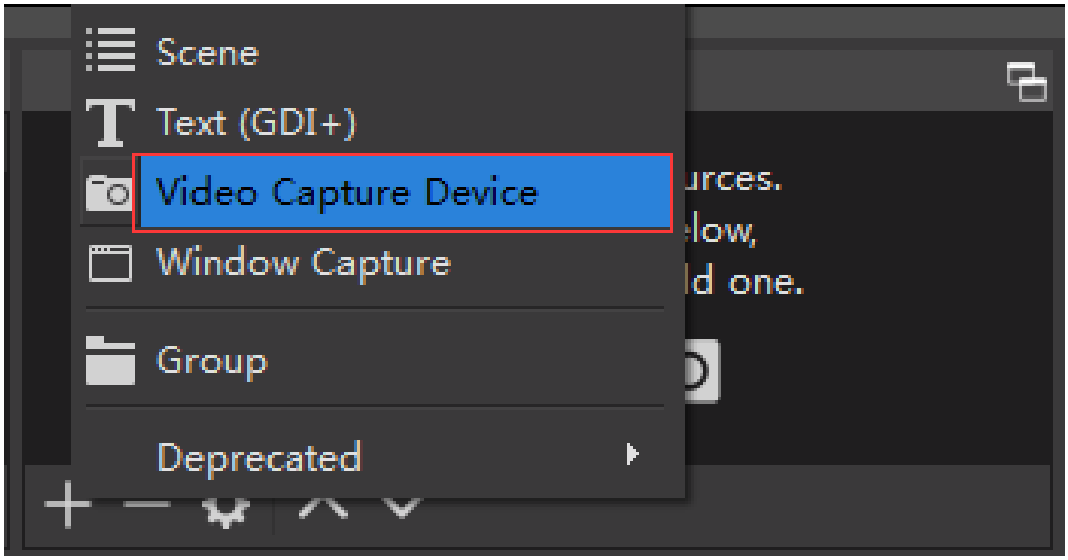


1. Connect input of capture card to HDMI signal via HDMI cable, such as Computer, Game Console, DVD.
2. Connect Output port of capture card to display devices, such as TV, Monitor, Projector, etc.
3. Use the USB3.0 cable to connect the USB3.0 interface of the capture card to the USB3.0 interface of the computer to complete the preliminary connection.
4. If you need to use headphones, microphones, and headsets, please follow the 3.5mm interface icon to connect accordingly.

Instructions for the use of video capture software

For example: OBS Studio

1. Open the “obsproject.com/download” link and download the corresponding “OBS Studio” installer based on your computer operating system. And install according to setup program prompt.
2. According to the above connection, connecting the capture to the source device and your computer correctly.
3. Open the OBS Studio software, click the "+" icon of the "Source" module and select "Video Capture Device：

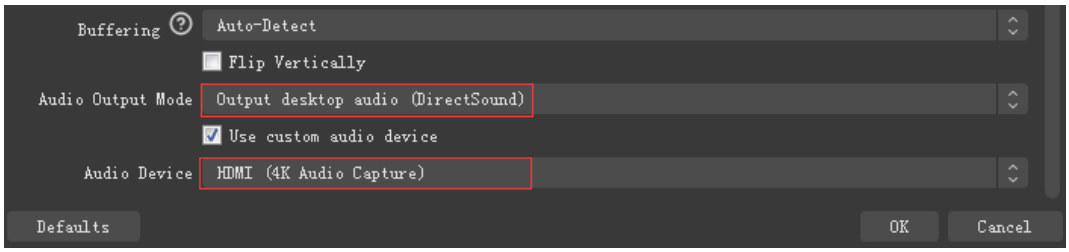


A new window appears, select "4K Video Capture" in the "Device". Set it to "Custom" in the "Resolution/Frame Rate Type" option. The resolution is 3840X2160. Select 30 in the "FPS" option. Select NV12 in the "Video Format"

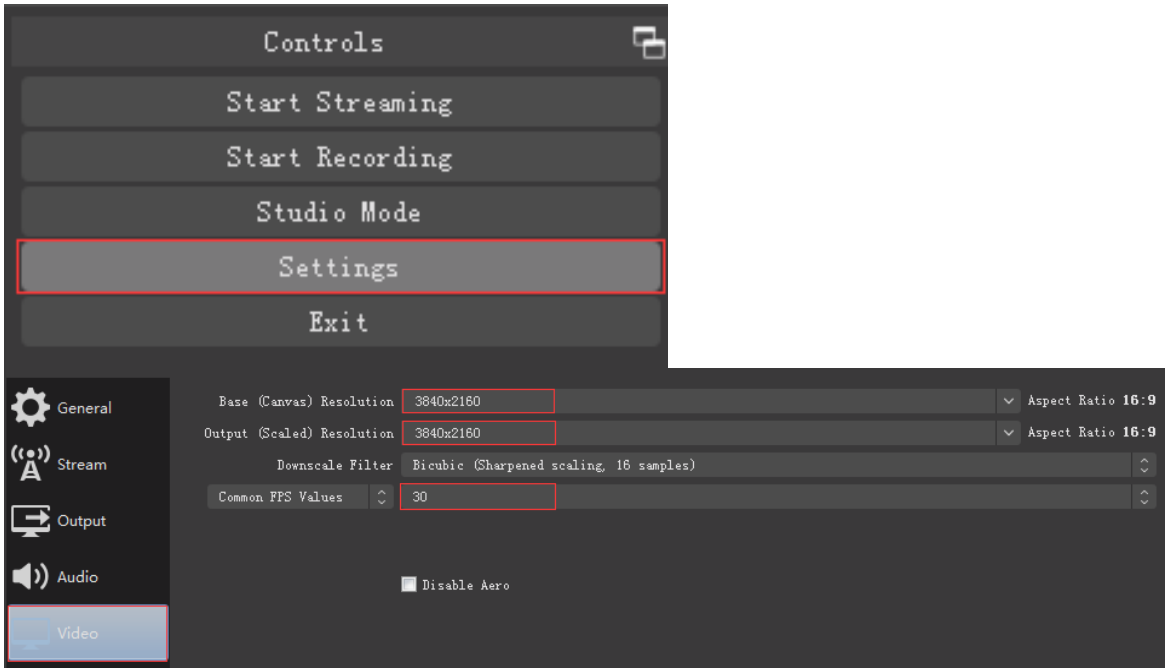
Note: When a computer that does not meet the configuration requirements, there will be video freezes, and the recording resolution needs to be reduced.

4. In “Audio Output Mode” select “Output desktop audio (DirectSound)”, “Audio device” select (HDMI 4K Video Capture) and click “OK”.

Note: Incorrect selection of audio equipment will result in no sound in the recorded video



5. Click “setting” and click “Video”. In “Base (Canvas) Resolution” select/ input 3840x2160. In “Output (Scaled) Resolution” select/ output 3840x2160. In “Common FPS Values” select 30. Click “OK” to confirm.



After the above settings are completed, you can start recording and streaming your HD video.

6. After recording, you can click "Output" in the "Settings" window to view the save path of the recorded video.

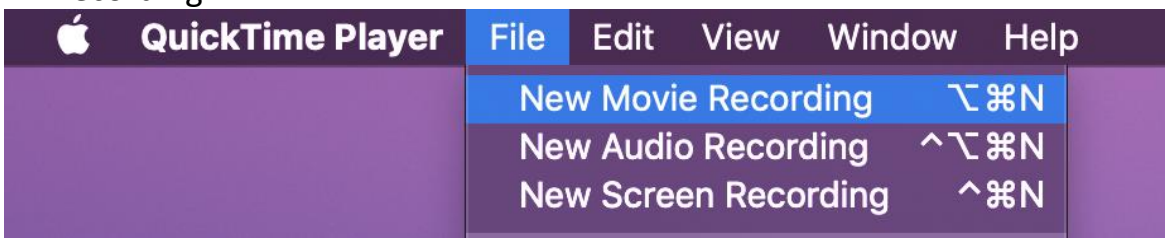
If you want to use it with other third-party software (such as VLC, Media encoder, Protplayer...), you only need to select the capture device of the software as "4K Video Capture".

MAC System Operating Instruction

Use with OBS Studio the same as Windows.

Instructions for use with the Quick Time player software that comes with the MAC system：

1. Use Quick Time player, Click “file” icon to select “New Movie Recording”.



2. Click the right side  and  button， camera select“4K Video Capture”.Microphone select “4K Audio Capture”

Click “ ” button to record after finished.

Packing Contents

4K USB Capture ……..……..……1pcs
USB3.0 Data Cable……..……1pcs
User Manual.....……..……1pcs

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.