



UC1218-4K PRO

HDMI TO USB3.1 4K60 Capture Box

1. INTRODUCTION

UC1218-4K PRO is a professional and convenient broadcast-grade 4K device that captures uncompressed 4K HDMI signals via USB3.1 Gen2 for audio and video capture, live streaming, and recording on a computer. The video capture resolution supports up to 4K60. It is compatible with various systems, including Windows, Linux, etc., and complies with UVC and UAC standards. It uses uncompressed RGB 24-bit color format to accurately restore the original color of the picture. It is plug-and-play, driver-free, and power-free. UC1218-4K PRO is your ideal choice for applications such as live streaming, gaming, and professional audio and video work.



2. MAIN FEATURES

- Input: 4K HDMI input, mic/line audio input
- Outputs: 4K HDMI loop-through, USB 3.1 Gen2 output, audio output
- Uncompressed video and audio 4K60 original picture acquisition
- Video capture formats support RGB24, P010, YUY2, NV12, 1420, MJPG
- Plug and play, no driver or power supply required
- Compatible with Windows, Linux, and macOS
- Compatible with OBS, ZOOM, Teams, Twitch, Vmix, etc.

3. SPECIFICATIONS

Interface	
Video Interface	1 × HDMI 2.0 input 1×HDMI 2.0 loop-out 1×Type C (USB 3.1 Gen 2 , supports up to 10Gbps)
Audio Interface	1×3.5mm stereo (analog audio input) 1×3.5mm stereo (microphone input) 1×3.5mm audio monitor output
Format	
HDMI 2.0 input & Loop-out resolution	Up to 4K60Hz, 2K144Hz, 1080p240Hz
Audio & Video Capture	UVC (USB Video Class) Standard UAC (USB Audio Class) standard
Audio Codec	2 channels , 16 bit PCM, 48kHz, 1536 kbps
Core parameters video format	RGB24: Up to 2560×1440 p60 P010: Up to 3840×2160 p60 YUY2: Up to 3840×2160 p50 NV12: Up to 3840×2160 p60 I420: Up to 3840×2160 p60 MJPEG: Up to 3840×2160 p60
Operating System and Software Compatibility	
Supported operating systems	Windows 7/8/10 /11 , Linux (kernel version 2.6.38 and above) , macOS (10.8 and above)
Software compatibility	OBS studio, ZOOM, Teams, Google Meet, Youtube Live, QuikcTime Player, Face time, etc.
Compatible SDK	DirectShow(Windows), DirectSound(Windows)
Other	
size	104×75.5×19mm
weight	Net weight: 2 71 g Gross weight: 403 g
Power consumption	4.5W ±10%
Operating temperature	-20~ 6 0°C
Storage temperature	-30~70°C
Relative humidity	20~90% RH (non-condensing)
Accessories	

Accessories	1× USB3.0 A to C cable, 0.8m HDMI cable (optional)
Warranty	3 years

4. INTERFACE



5. OPERATION INSTRUCTIONS

UC1218-4K PRO HDMI 2.0 to USB3.1 Video Grabber is based on UVC (USB Video Class) and UAC (USB Audio Class) standards. No additional drivers need to be installed. After installation in the operating system, the relevant video and audio devices will be added. For example, in Windows Device Manager, a new device will appear.

- Under Imaging devices : **USB3.1 Capture Video**
- Under Audio Input and Output : **Mixer (USB3.1 Capture Audio) / Headphones (2-USB3.1 Capture Audio)**

6. OUTPUT

- USB capture output: Use third-party software such as OBS, Vmix, Zooms, Teams, Potplayer, etc. to capture HDMI input video for live game broadcasting, broadcasting, Vlog, distance education, conferences and other live events. The captured video resolution can reach up to 4K60.
- HDMI 2.0 Loop Out: Loop out video and audio from HDMI 2.0 input

7. AUDIO

Audio Mixing:

UC1218-4K PRO capture box has external MIC and Line audio input, making audio configuration more flexible.

- a.USB Audio: including HDMI2.0 audio, MIC audio, Line audio
- b. Audio output: including HDMI2.0 audio, MIC audio, Line audio, PC audio
- c.HDMI2.0 loop-out: HDMI2.0 audio

Audio Output:

The audio output comes from the audio embedded in HDMI2.0, the audio input from line in and the audio from the computer.

The computer's audio capture settings are as follows:

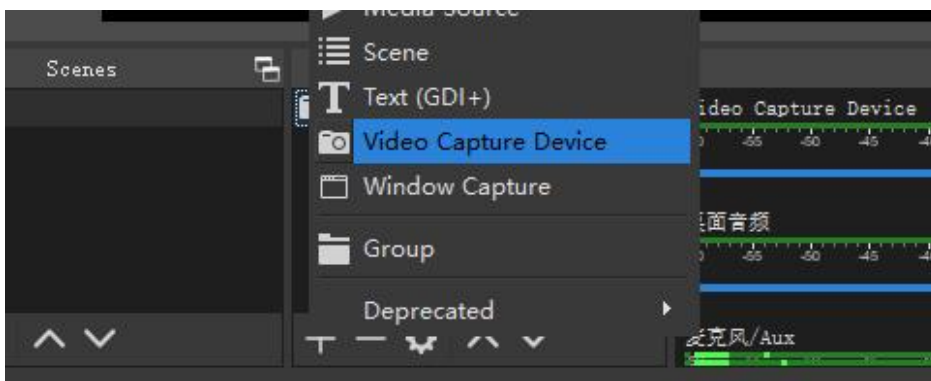
Connect the device via USB, select Sound Settings on the computer, then select Sound Output, click Speaker, and select Headphones (2-USB3.1 Capture Audio). The USB output can capture the audio played locally on the computer.



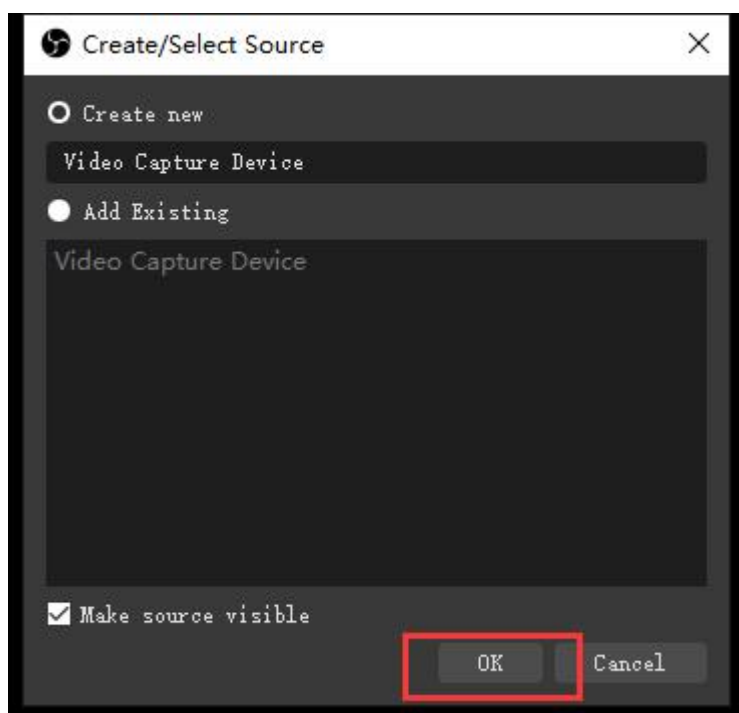
8. OBS & POTPLAYER OPERATION INSTRUCTIONS

● OBS Software Settings:

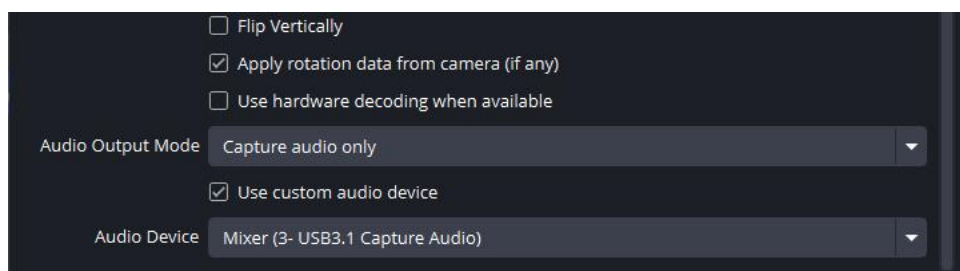
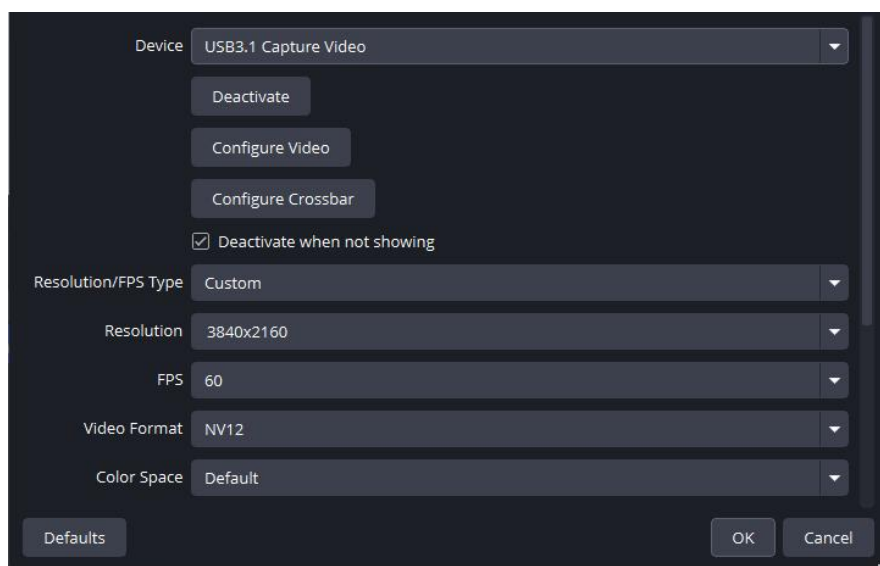
Step 1: Open OBS Studio, click "+", and select "Video Capture Devices".



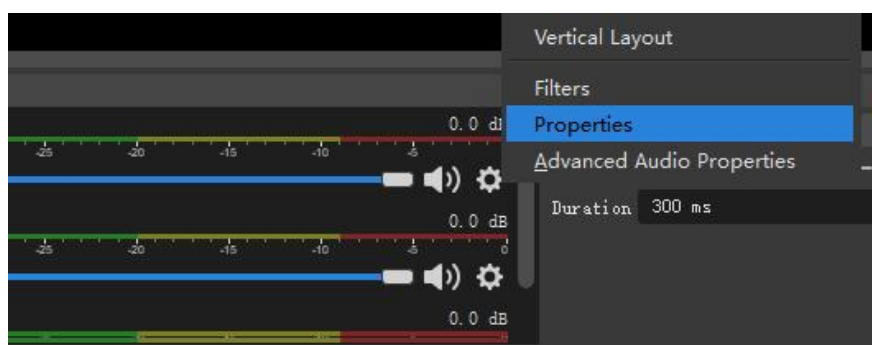
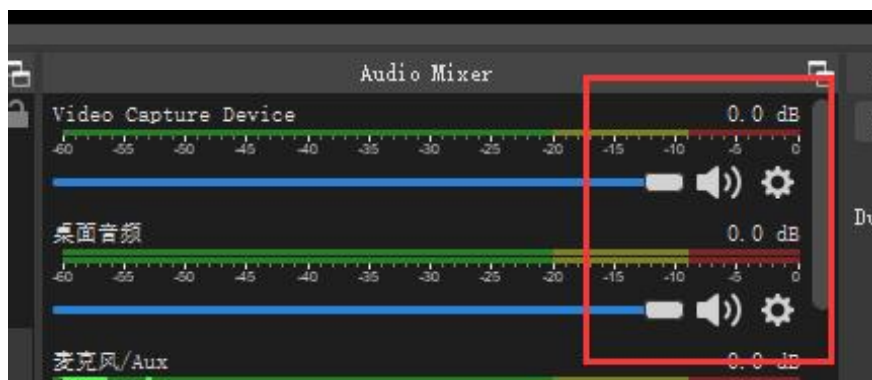
Rename the source and click OK.



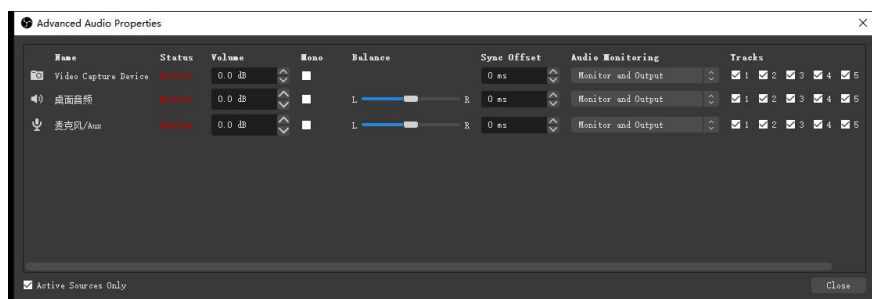
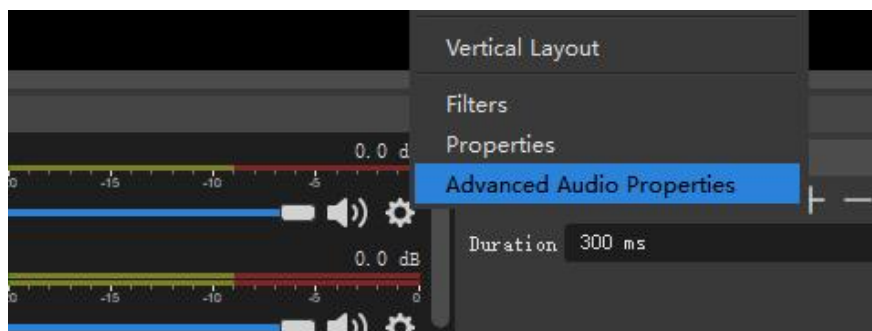
Step 2 : Right-click "Video Capture Device" and select Properties to enter the properties interface and select the signal source as your device. Users can set other parameter settings in the properties page and then click OK.



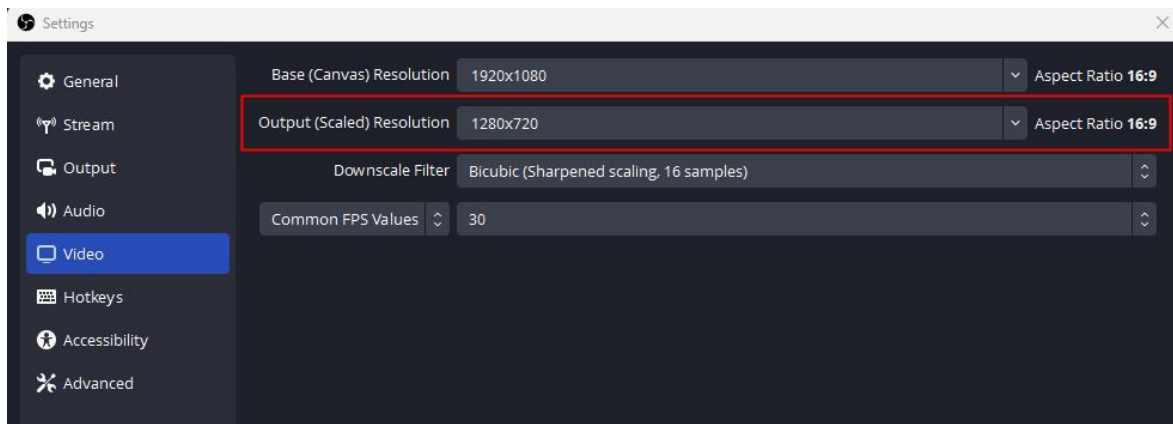
Step 3 : Click the audio settings icon to set up the audio, as shown in the picture. Then go to properties and select the device.



Step 4: Enter "Advanced Audio Properties" to modify settings related to volume, balance, audio monitoring, audio tracks, etc.



Step 5 : Set the output resolution. (The resolution of HDMI output will change according to USB output).



● Potplayer software operation instructions:

Step 1: Press "Alt+D" to enter the device settings . After selecting the device , the user can set the output resolution. (The resolution of HDMI output will change according to USB output).

