

Liberty

TU-HD2USB-CAP4K

manual

4K HDMI to USB Capture Card



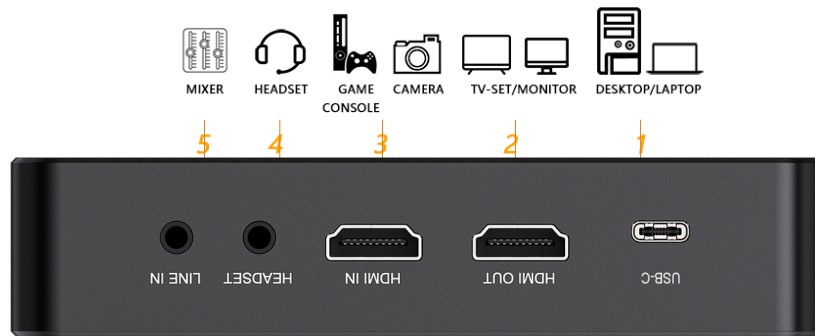
Please read this manual before use and keep it in a safe place for future reference. You can use this device to: Capture and stream HDMI video up to 2160p60 or 1080p240 resolution on your computer, and mix microphone and audio line input for mixing audio.

Overview

In the Box

TU-HD2USB-CAP4K x1, USB-C to A cable x1

Product Overview and Connections



1. PC: To connect to computer USB port.
2. HDMI OUT: HDMI output port, connect to TV or monitor.
3. HDMI IN: HDMI input port, connect to HDMI video source. Supports HDR and VRR input. Supports LPCM 5.1 and 7.1 channel audio pass through.
4. Headset: 3.5mm audio for output to earphone and microphone input (CTIA).
5. LINEIN: Connect to Audio source, and mix the audio with video together.
6. Status Indicator: Power on – Red, HDMI input – Blue, Device running –Colorful slow flashing.

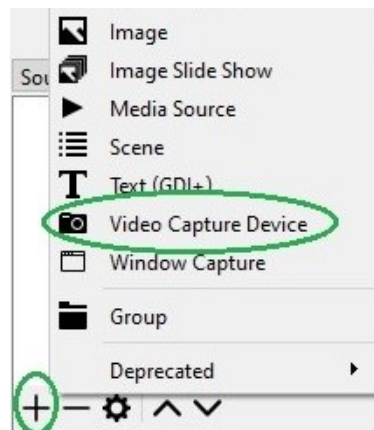
Software

For settings, adjustments, and for professional live streaming or recording, we suggest using OBS Studio.

<https://obsproject.com>

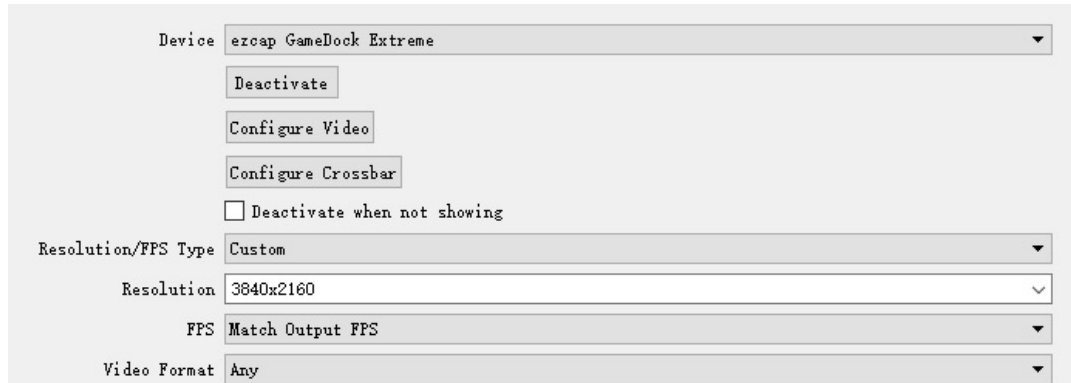
Select Device

After download and installation, double click OBS Studio. Click icon + under Sources window, and select Video Capture Device. Click OK in the new pop-up window. Please click Device and select ezcap GameDock Extreme.



Video Setting

You should get the video in window. If not, and you see **Check Resolutions Settings** on the window, you need to set the video resolution. Click **Resolution/FPS Type** and select **Custom**, then click **Resolution** to select one resolution that is the same or smaller as the resolution of your video source.



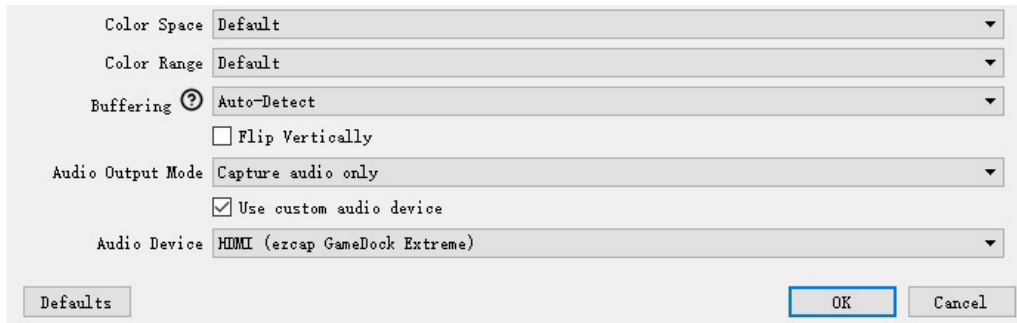
The screenshot displays a configuration panel for video settings. At the top, the 'Device' is set to 'ezcap GameDock Extreme'. Below this are buttons for 'Deactivate', 'Configure Video', and 'Configure Crossbar', along with a checkbox for 'Deactivate when not showing'. The 'Resolution/FPS Type' is set to 'Custom'. The 'Resolution' is set to '3840x2160'. The 'FPS' is set to 'Match Output FPS'. The 'Video Format' is set to 'Any'.

If the resolution of the video source device output is 3840 x 2160, you may find that the viewing picture is out of the frame of OBS. Right click image window of OBS, select **Resize output(source size)**, and you will get the whole picture.

You can click **FPS** to select the appropriate FPS - **30,60,Highest FPS**, or **Match Output FPS**, and click **Video Format** to select **RGB24, NV12,YUY2, I420, P010**, or **MJPEG**. The video format option depends on resolution, the max FPS depends on both resolution and video format. Please refer to the **Specifications** part for the corresponding relationship.

Audio Setting Please tick **Use custom audio device**, and click **Audio Device**

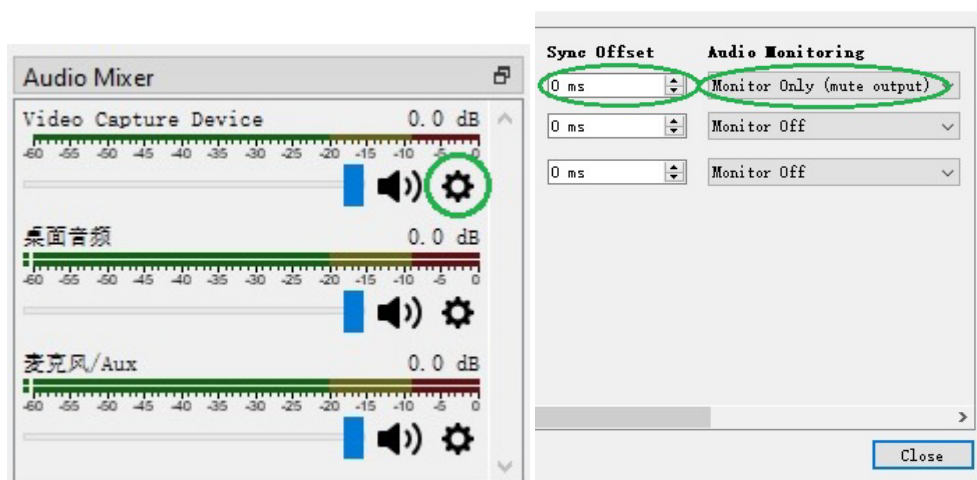
and select **HDMI (ezcap GameDock Extreme)**, you will hear the sound now.



If you still cannot hear the sound, please click **Setting** under **Audio Mixer** and **Video Capture Device** at the bottom middle of OBS panel as shown below and select **Advanced Audio Properties**. Then click **Audio Monitoring** and select **Monitor Only (mute output)** (mute output).

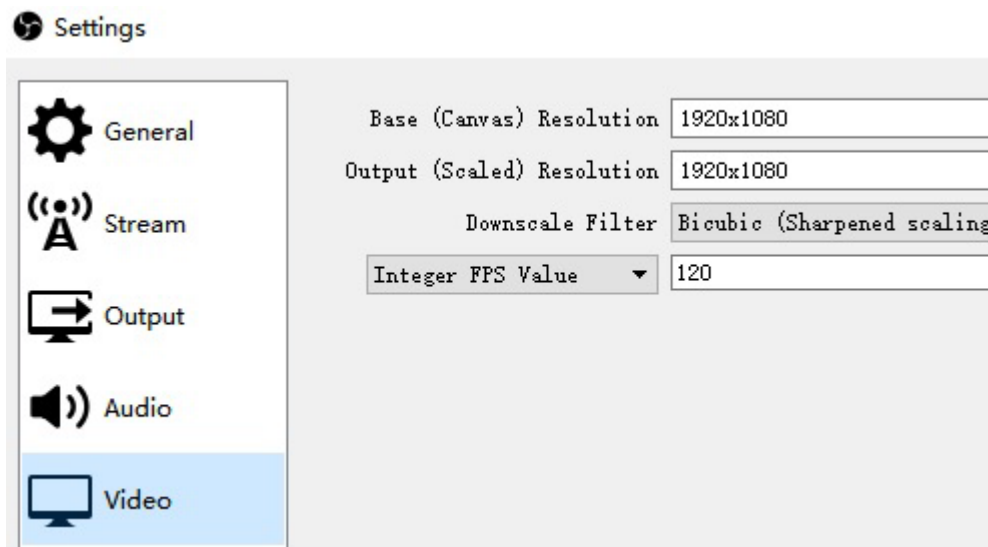
You still cannot get the sound after above setting, please click **Audio Output Mode** to select **Output desktop audio (Wave Out)**. You should get the sound.

Please set to **- 470ms** under **Sync offset**, for audio and video sync, you can adjust it till your audio video is synchronous.



Recording

Click **Settings** of OBS panel, and click **Video**. Click **Base (canvas) Resolution** to select the appropriate resolution, and click **Output (Scaled) Resolution** to select the output resolution. Click **Common FPS Values** to select the FPS values. If you want to record 120HZ video, please click **Common FPS Values** and select **Integer FPS Values**, then enter **120** in the window on the right.



After setting, click **Apply** and **OK**, then simply click **Start Recording** to start recording video, and click **Stop Recording** to stop recording.

Streaming

Click **Output** in the **Settings** panel, in the **Streaming** column, set video quality for streaming (adjust depends your computer, network speed), then click icon **Apply** and **OK**. Click **Stream**, then you can click **Service** to choose the software platform you want, then click icon **Apply** and **OK**.

Click **Start Streaming** to start streaming, and click **Stop Streaming** to stop streaming.

Note: Please click the **help** at the top of the OBS, and learn more about OBS.

Specifications

Interface: USB 3.2 (Gen 1) Type-C (plug and play, UVC)

Video Input / Output (Pass-Through): HDMI 2.0

Audio Input: HDMI 2.0, 3.5mm Line In (TRS 3-pole), 3.5mm headset microphone input

(CTIA 4-pole)

Audio Output (Pass-Through): HDMI 2.0, 3.5mm headset earphone output (CTIA

4-pole)

Max. HDR Pass-Through Resolution: 2160p60 HDR, 1440p120, 1080p240

Max. VRR Pass-Through Resolution: 3840x 2160 - VRR(48-60 Hz), 1920 x 1080 -

VRR(48-120 Hz). (**Note:** YCbCr420 VRR is not supported. Such as XBOX X1, please tick

Allow YCC 4:2:2 settings to allow VRR)

Max Record Resolution:

3840 x 2160 - 60fps/MJPG, 30fps/NV12/I420.

2560 x 1440 - 144fps/MJPG, 60fps/NV12/I420, 50fps/YUY2.

2560 x 1080 - 60fps/NV12/I420/YUY2/MJPG.

1920 x 1080 -240fps/MJPG, 120fps/NV12/I420, 60fps/YUY2/RGB24.

1280 x 720 - 60fps/NV12/I420/YUY2/RGB24/MJPG.

Dimensions (W x D x H): 151 x 121 x 22 mm

Operating System

Windows 10 x64 / 11 x64, USB 3.2 (Gen 1)UVC Portx1

Desktop: Intel Core i5-6XXX or above, NVIDIA GeForce GTX 1060 or above.

Laptop: Intel Core i7-7700HQ or above, NVIDIA GeForce GTX1050 Ti or above.

8 GB RAM recommended.

macOS 11 / 12, USB 3.2 (Gen 1)UVC Port x1

Apple M1 or Intel i7 quad-core or above, Radeon Pro 555 with 2 GB of VRAM, 16 GB of

2400 MHz DDR4 memory.

Thank you for your purchase.

For Technical Support please call our toll free number at
800-530-8998 or email us at supportlibav@libav.com

www.libav.com

The logo for Liberty, featuring the word "Liberty" in a bold, black, sans-serif font. The letter "i" is stylized with a small orange square above it.

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