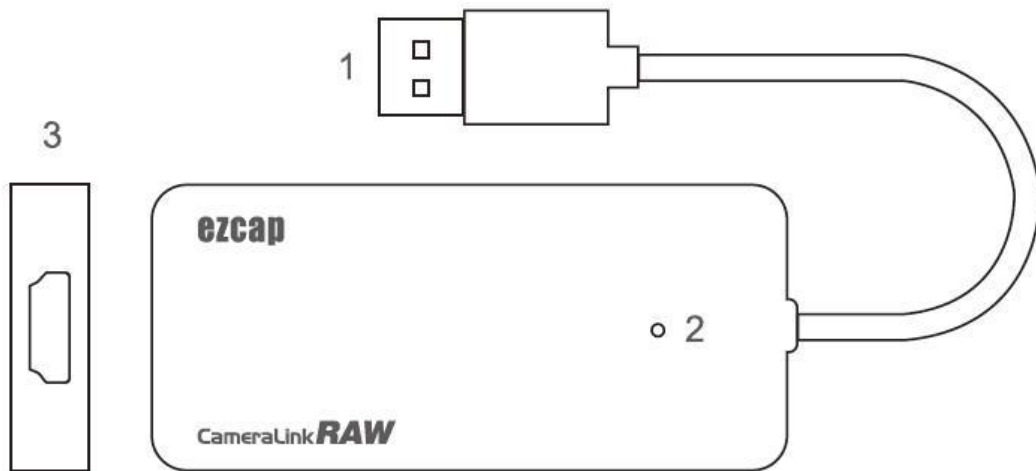

manual

Camera Link RAW

Model number: ezcap322

ezcap

Overview



| | | |
|---|-----------------|----------------------------------|
| 1 | USB3.0 Port | * ezcap322C is Type-C Gen 1 port |
| 2 | LED Indicator | |
| 3 | HDMI Input Port | |

LED Indicator

| | |
|--------|---------------------------|
| Green | No operate, only power on |
| Orange | Run signal |

In the Box

ezcap322 Camera Link RAW x1, Manual x1

Software

For professional live streaming or recording, we suggest use OBS,

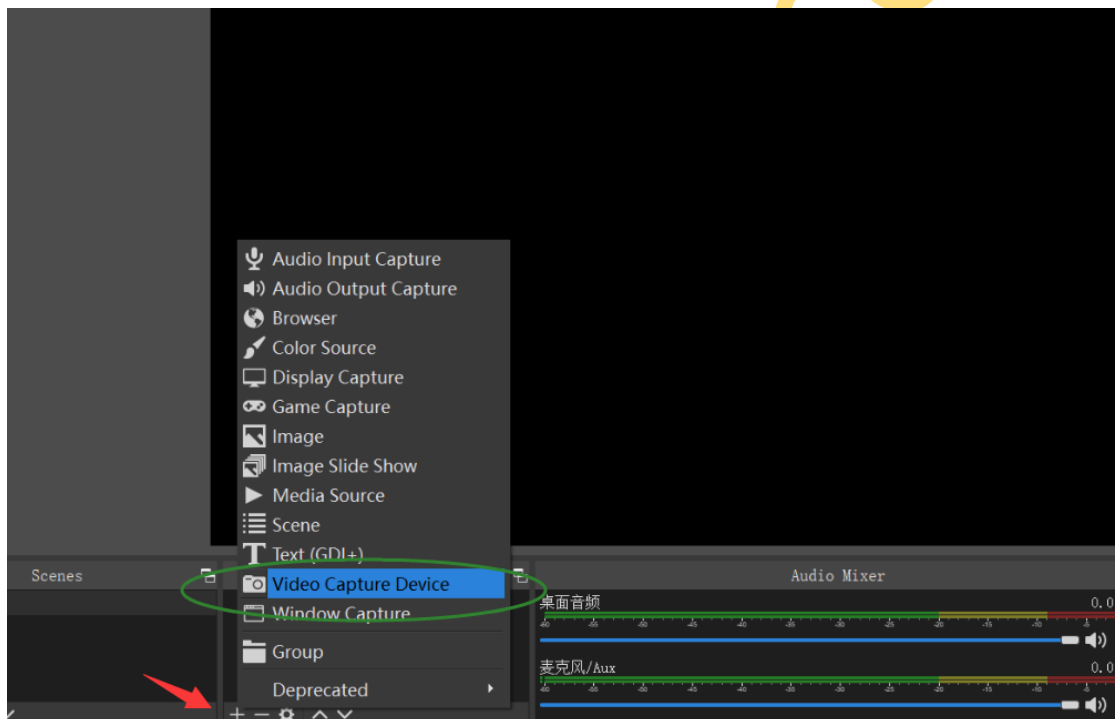
download link:

<https://obsproject.com/>

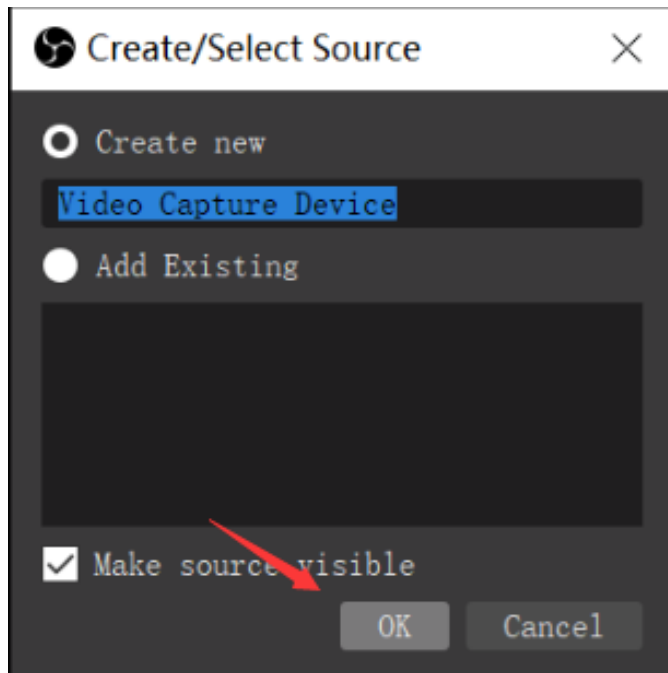
Work with OBS

Device Select

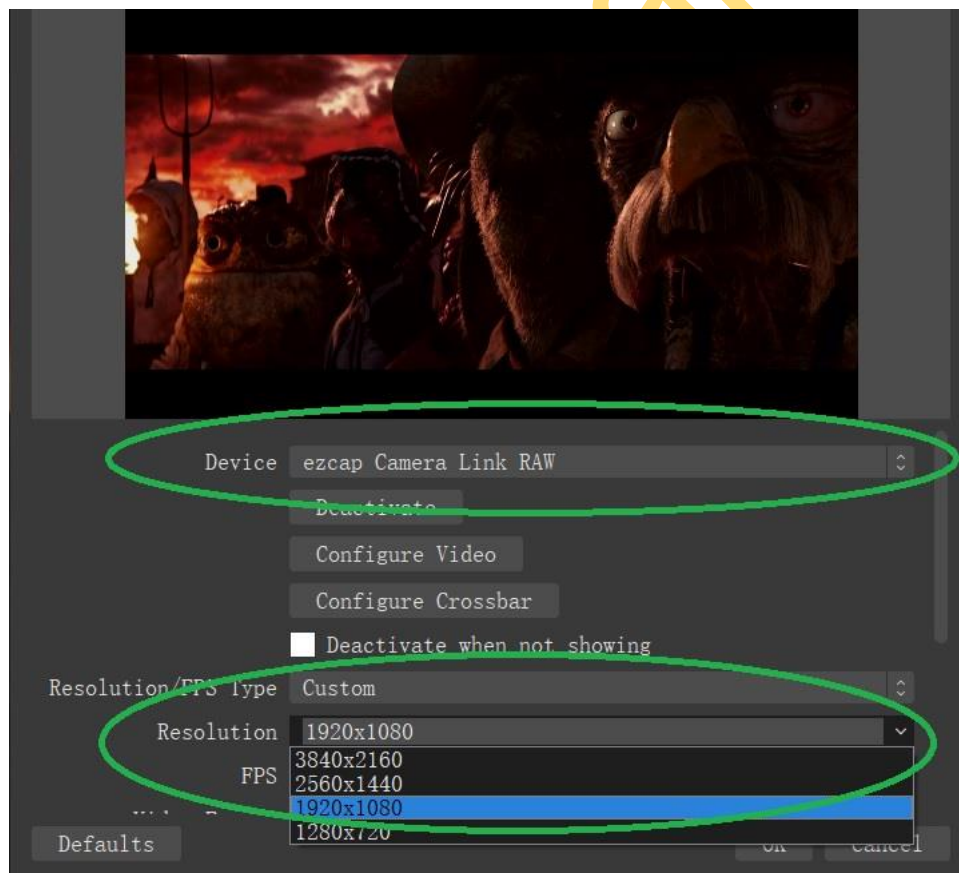
After download and installation, run OBS, add a "Video Capture Device" :



Click "OK" to Create



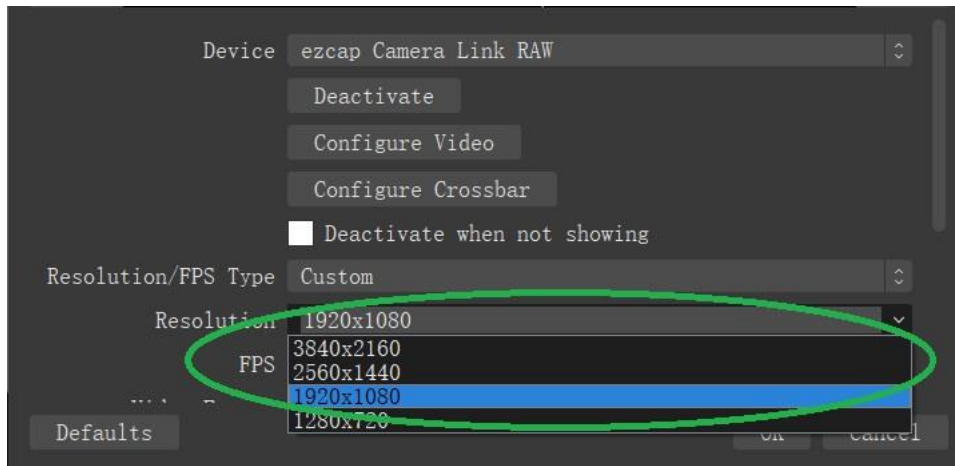
Device: Choose "ezcap Camera Link RAW"



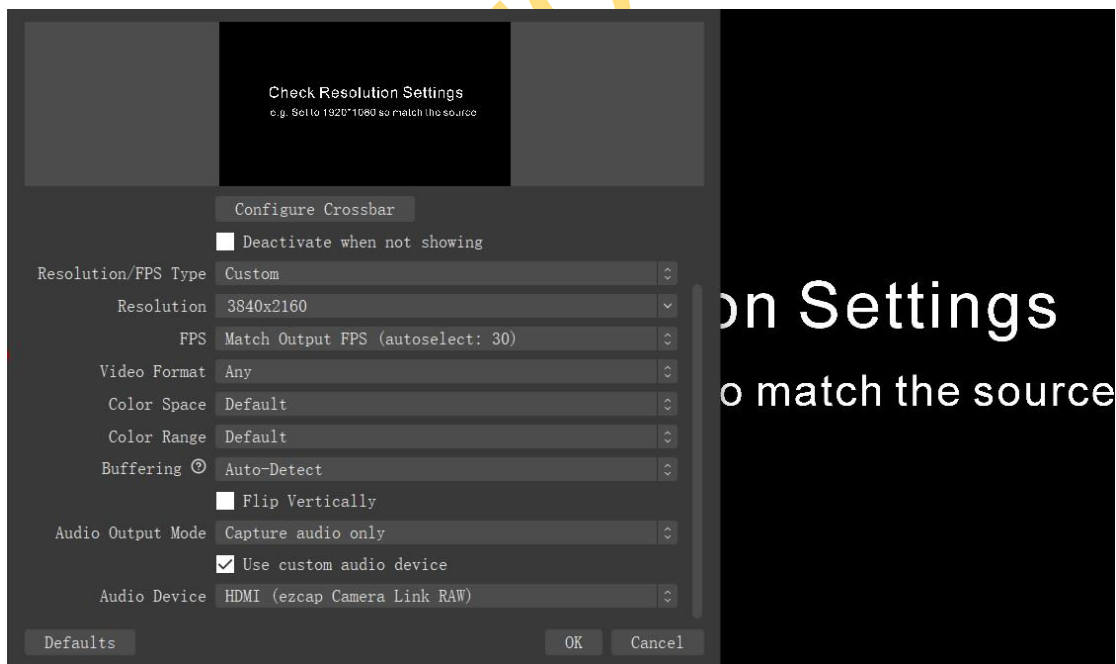
Resolution Setting

Resolution: Choose Custom or Default

Set a resolution you want (if set custom):



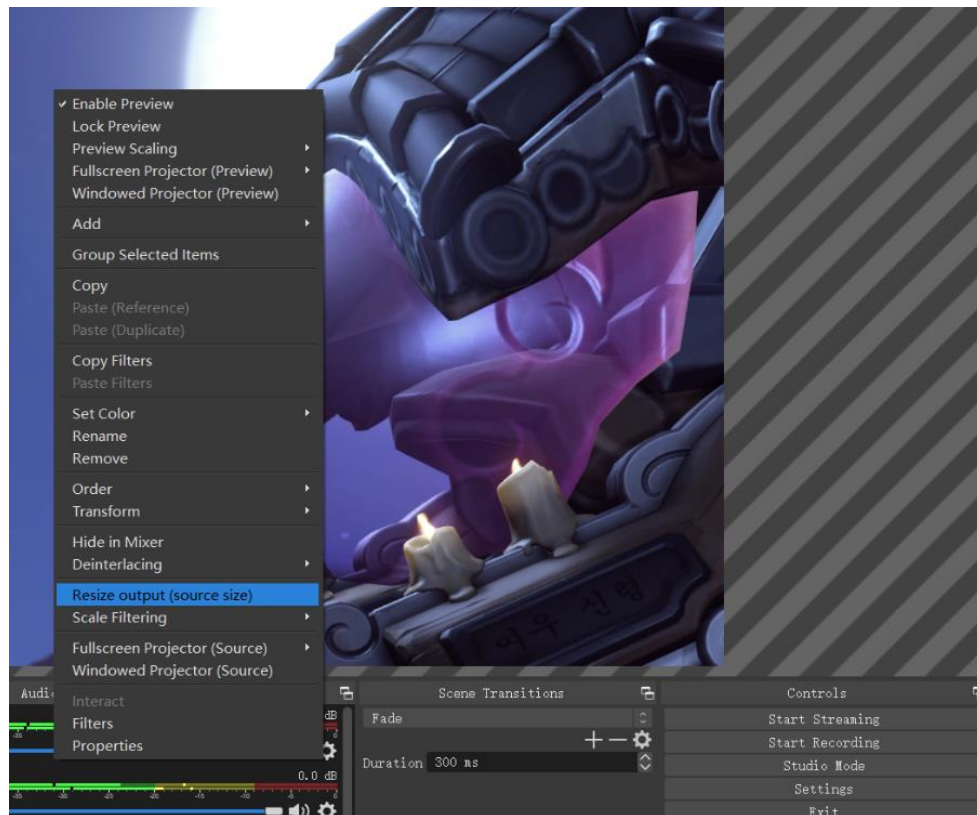
Note: Make sure the resolution set be same or smaller than source, otherwise, you may see “Check Resolutions Settings” as following:



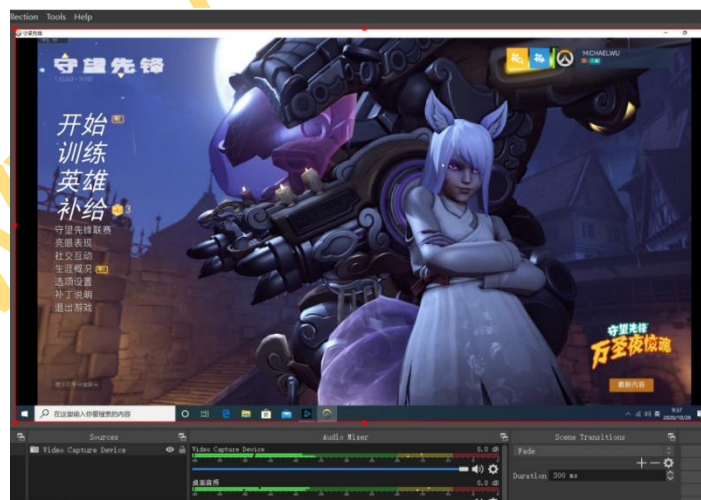
Set to 4k while input is not. Need set to lower to match the source

If you set resolution to 4k (3840*2160), you may find that the viewing

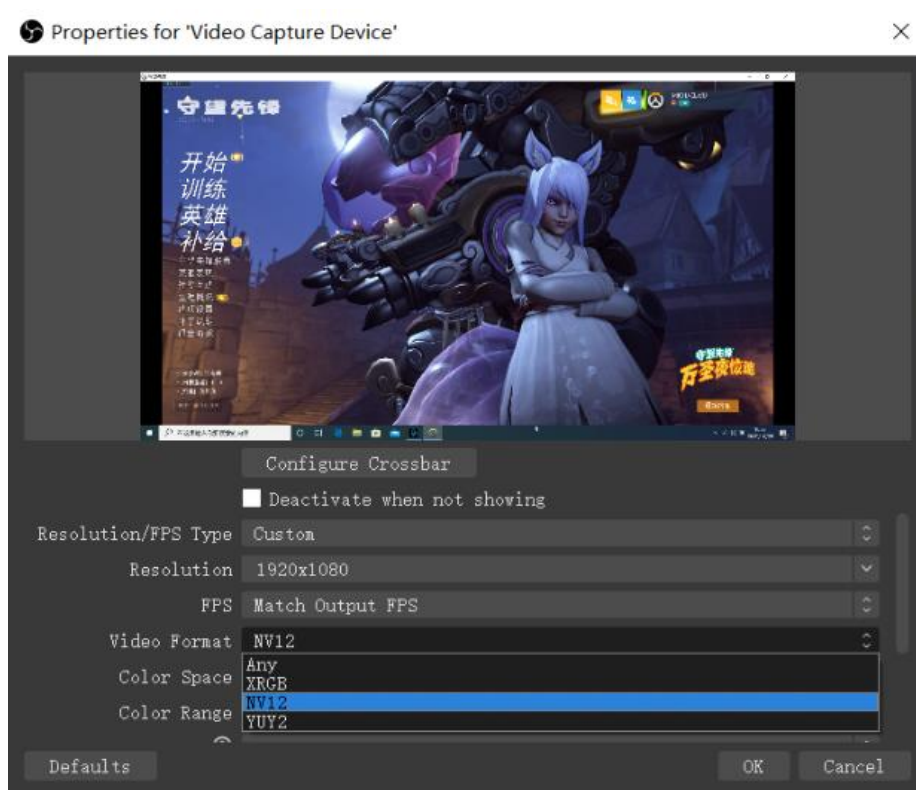
picture is way out of the frame of OBS. Right click window and select
"Resize output (source size)"



After confirm you can see the whole picture:



Video Format & FPS



The video format options depend on resolution, the max FPS depends on both resolution and video format:

| | Video Format options | MAX FPS |
|-----------|----------------------|---------|
| 3840*2160 | NV12 | 30 |
| 1920*1080 | NV12 | 120 |
| | YUY2 | 60 |
| | XRGB | 30 |
| 2560*1440 | NV12 | 60 |
| | YUY2 | 50 |
| 1280*720 | NV12 | 60 |
| | YUY2 | 60 |

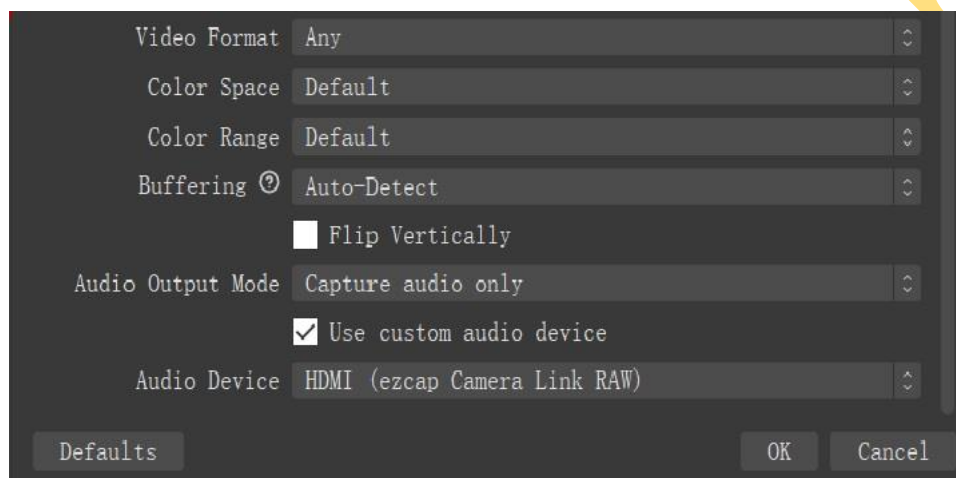
| | | |
|--|------|----|
| | XRGB | 60 |
|--|------|----|

Audio Setting

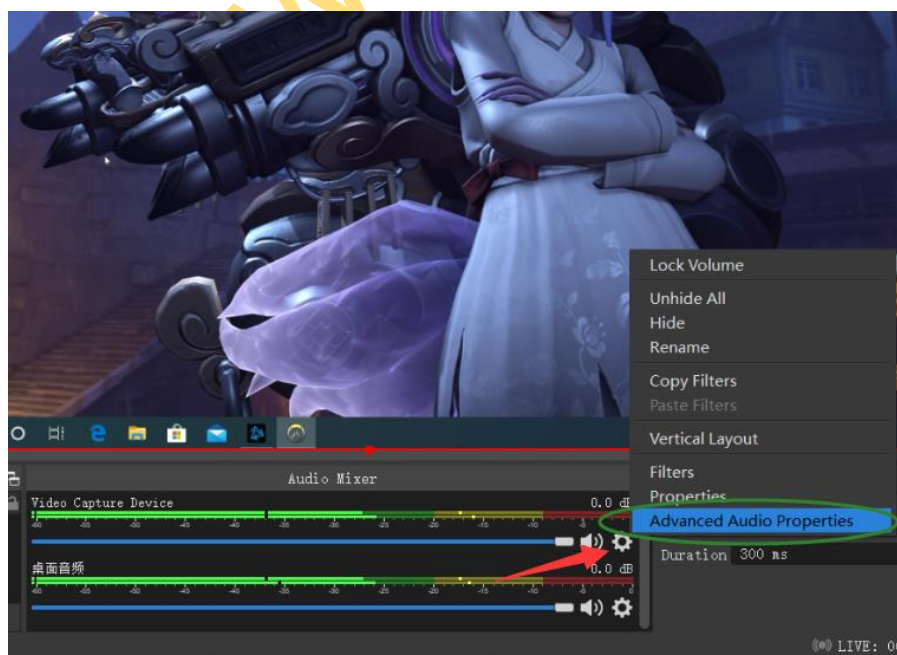
Audio Output Mode: Capture audio only

Tick "Use custom audio device"

Audio Device: HDMI (ezcap Camera Link RAW)

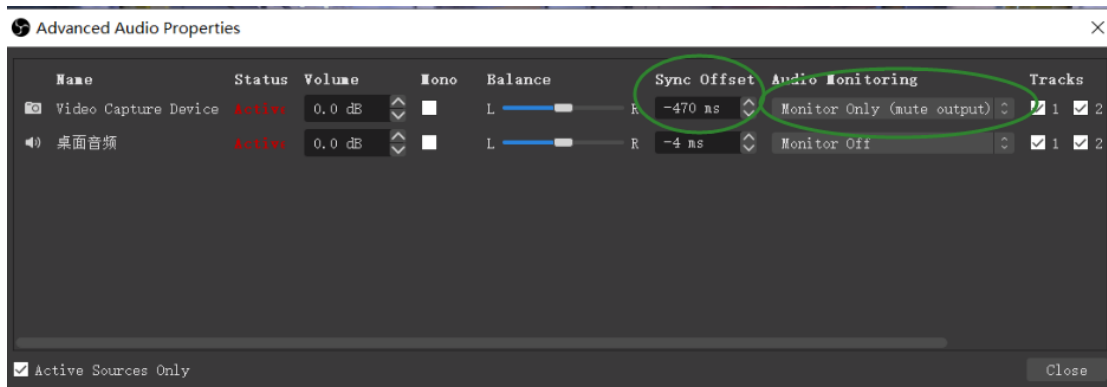


Click Settings, then click "Advanced Audio Properties"



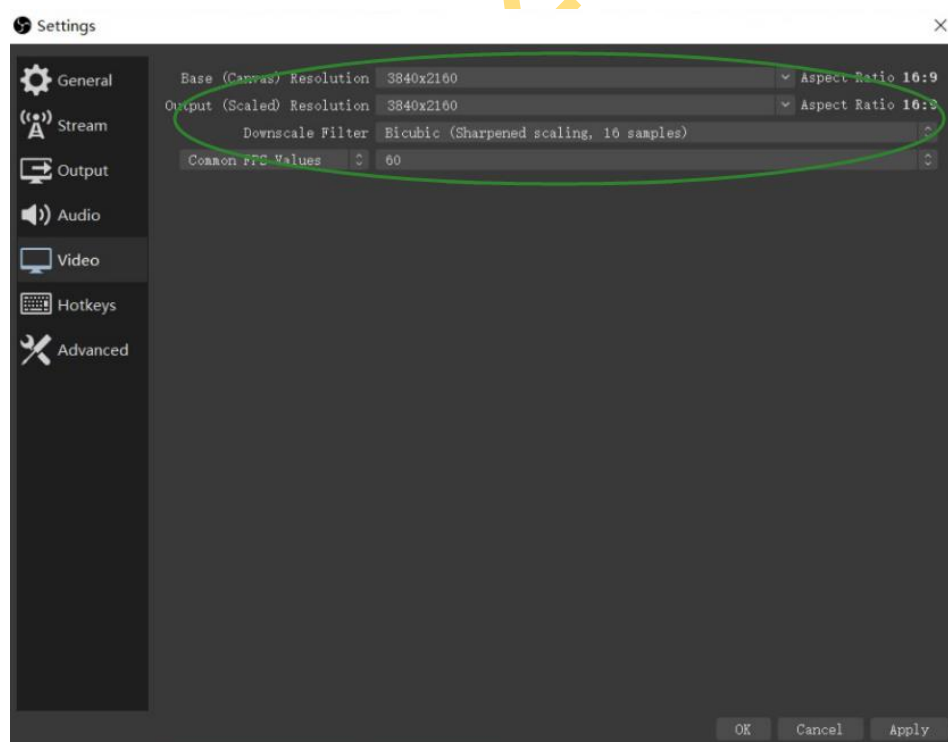
Audio Monitoring: "Monitor Only (mute output)"

Sync offset: - 470ms (this is for audio and video sync; you can adjust it till your audio video is synchronous)

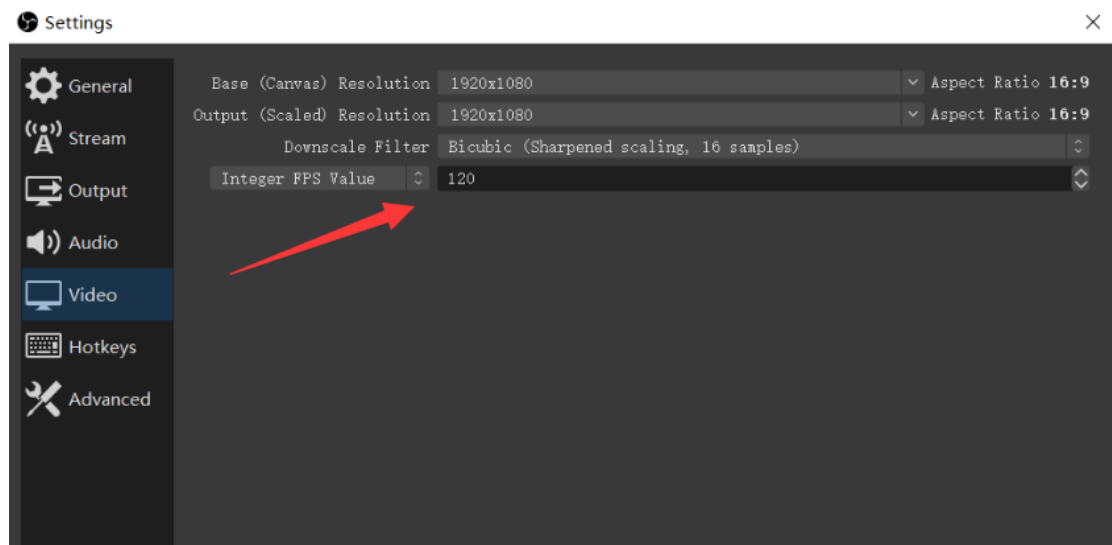


Recording

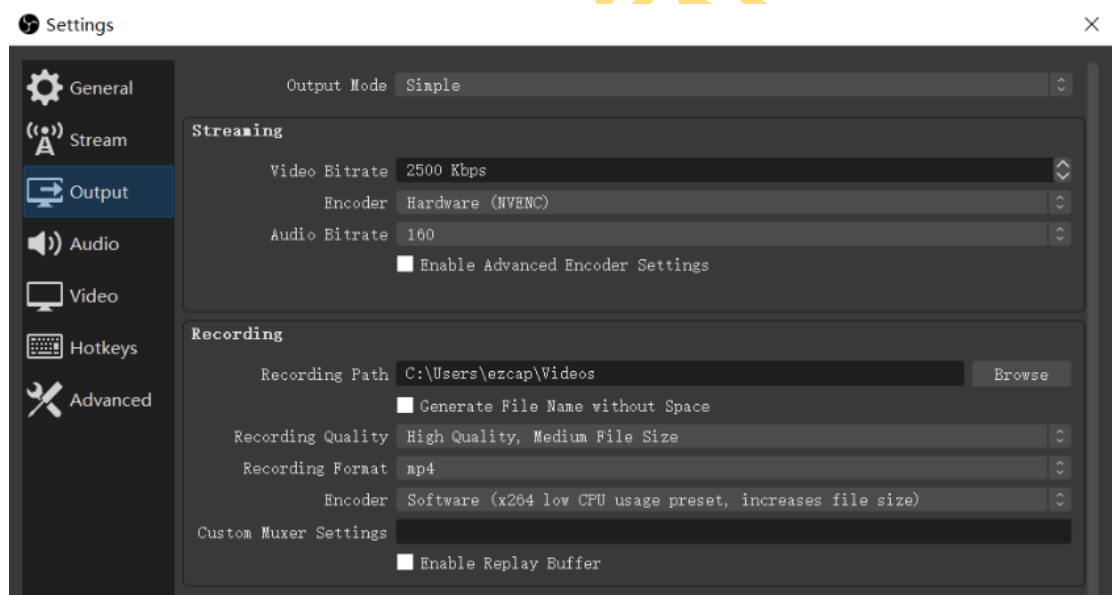
Record resolution setting:



You may also want to record a 120HZ video --- Choose Integer FPS, then type 120:



Output setting for Recording:

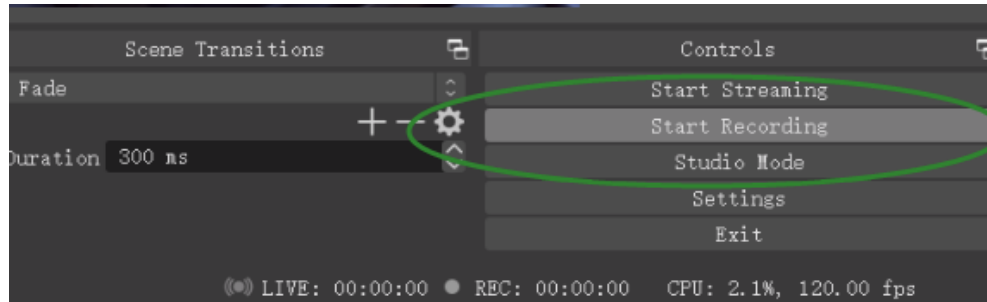


If you want record a better quality, one of the suggest setting is:

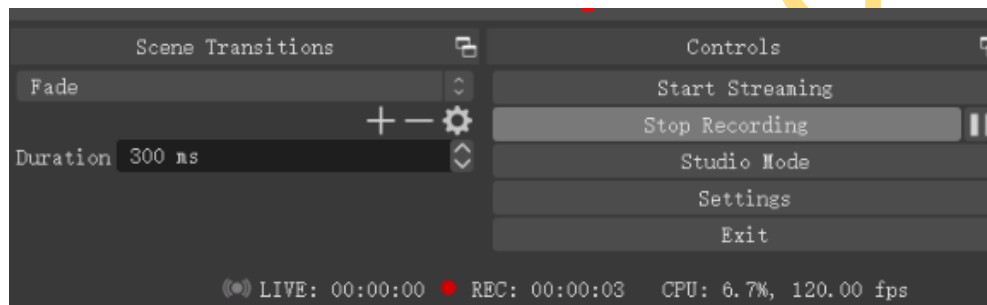
| | |
|-------------------|--|
| Recording Quality | High Quality, Medium File Size |
| Recording Format | Mp4 |
| Encoder | Software (x264 low CPU usage preset, increase file |

size)

After setting, simply click "Start Recording"

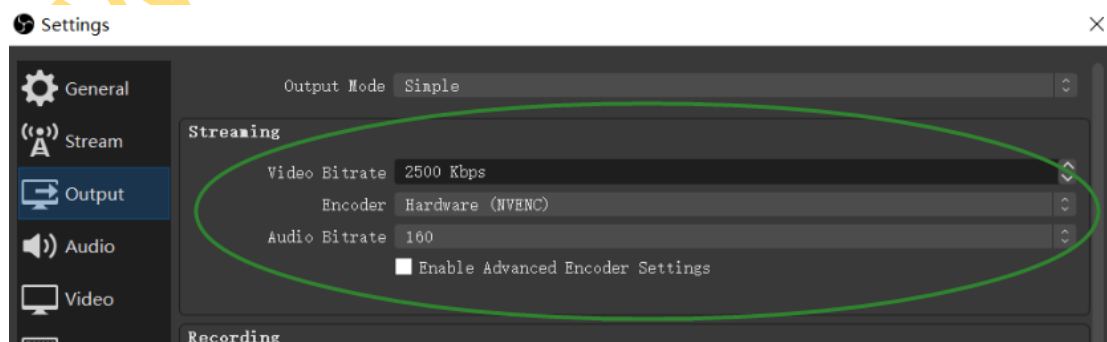


During recording click to stop when you want:

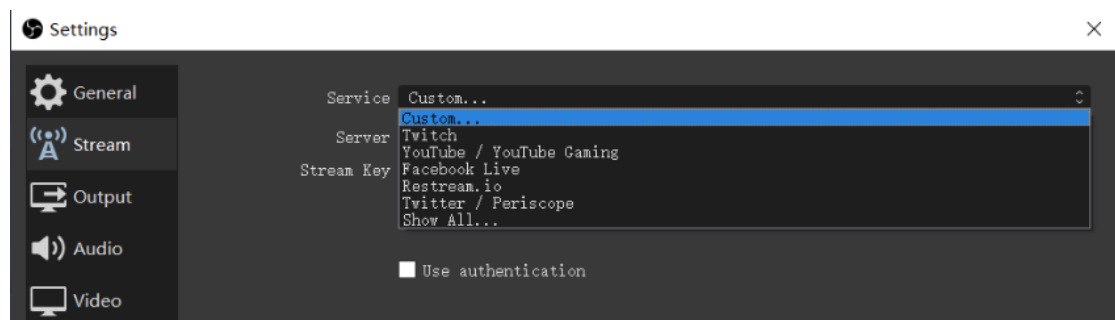


Streaming

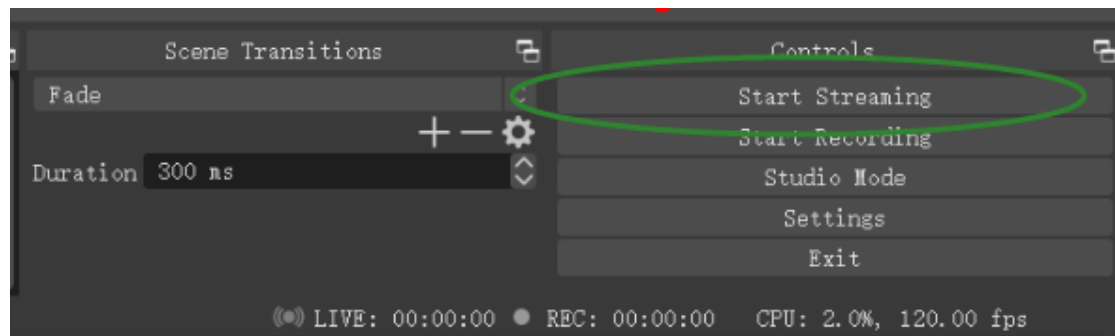
Set video quality for streaming (adjust depends your computer, network speed):



Set the service:



Click “Start streaming” to start:



Specifications

| | |
|---------------------------|----------------------------|
| Interface | USB3.0 |
| Video Input | HDMI 1.4 |
| Audio Input | HDMI embedded audio |
| Max. Input Resolution | 1080p120, 2160p30, 1440p60 |
| Max. Recording Resolution | 1080p120, 2160p30, 1440p60 |
| Supported Resolution | 2160p, 1440p, 1080p, 720p |
| Video Format | YUY2, NV12, RGB |
| Dimensions (W x D x H) | 89 x 40 x 12 mm |

Operating system

Windows® 10 x64

Laptop

For 4Kp30 or 1080p120 recording:

- Intel Core i7-7700HQ or above
- NVIDIA® GeForce® GTX1050 Ti or above
- 8 GB*

For 1080p60 recording: - Intel Core i7-4810MQ

- NVIDIA® GeForce® GTX 870M or above
- 8 GB

Desktop

For 4Kp30 or 1080p120 recording:

- Intel® Core™ i5-6XXX / AMD Ryzen™ 3 XXX or above
- NVIDIA® GTX 1060 / AMD RX 5700 or above
- 8 GB*

For 1080p60 recording:

- Intel® Core™ i5-3330 or above (i7-3770 recommended)
- NVIDIA® GeForce® GTX 650 / AMD Radeon™ R7 250X or above
- 4 GB

* RAM must be DDR4 2400 or above

Mac system requirement:

Operating system: MacOS High Sierra 10.15 and above, Mac

Thunderbolt 3

For 4Kp30 or 1080p120 Recording

iMac 2019:

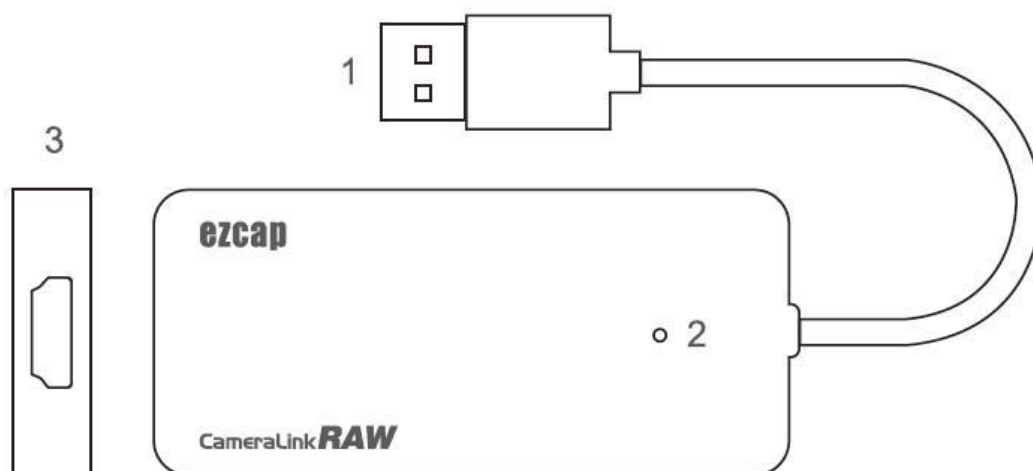
- 3.2GHz 6-core Intel Core i7
- Radeon Pro 555X with 2GB of GDDR5 memory
- 16GB of 2400MHz DDR4 memory

MacBook Pro 2018:

- 2.6GHz 6-core Intel Core i7
- Radeon Pro 560X with 4GB of GDDR5 memory and above
- 16GB 2400MHz DDR4 memory

www.ezcap.com

概览



| | | |
|---|-----------|--------------------------------|
| 1 | USB3.0 接口 | * ezcap322C 为 Type-C Gen 1 接口. |
| 2 | 指示灯 | |
| 3 | HDMI 输入 | |

指示灯

| | |
|---|-------|
| 绿 | 上电时 |
| 橙 | 打开软件时 |

包装内容

ezcap322 Camera Link RAW 游戏采集卡盒 x1, 说明书 x1

软件

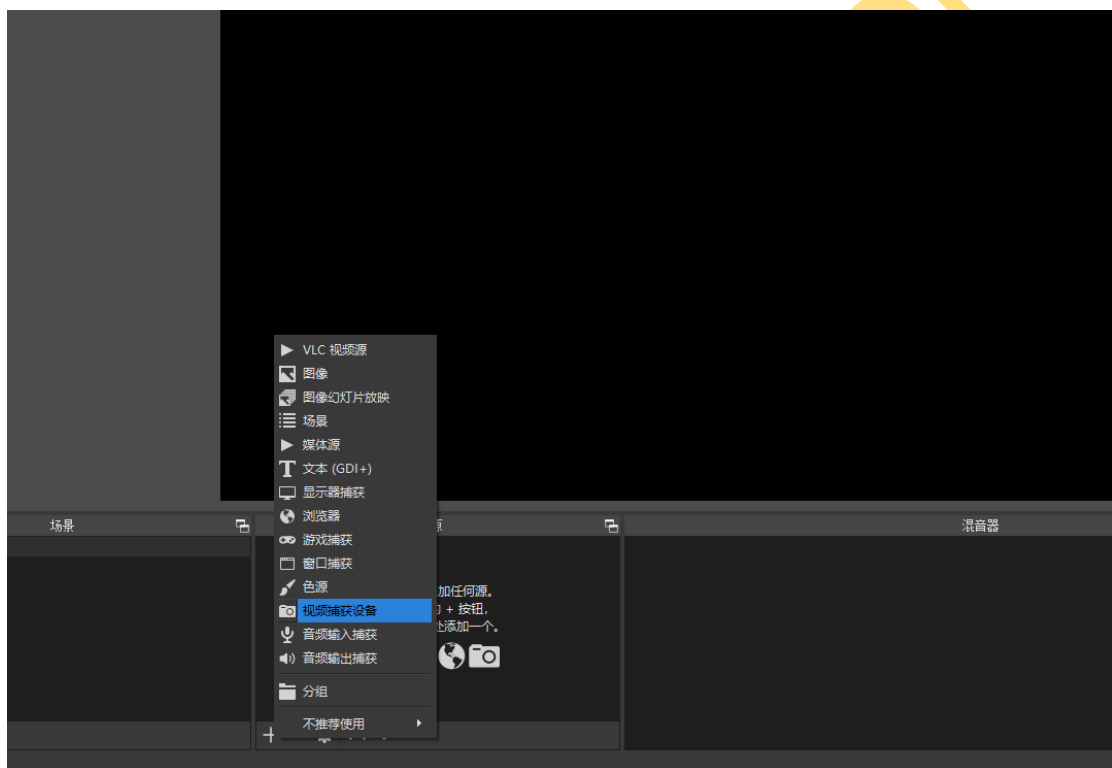
我们推荐免费的专业的直播及录制软件 OBS, 下载地址:

<https://obsproject.com/>

配合 OBS 使用

设备选择

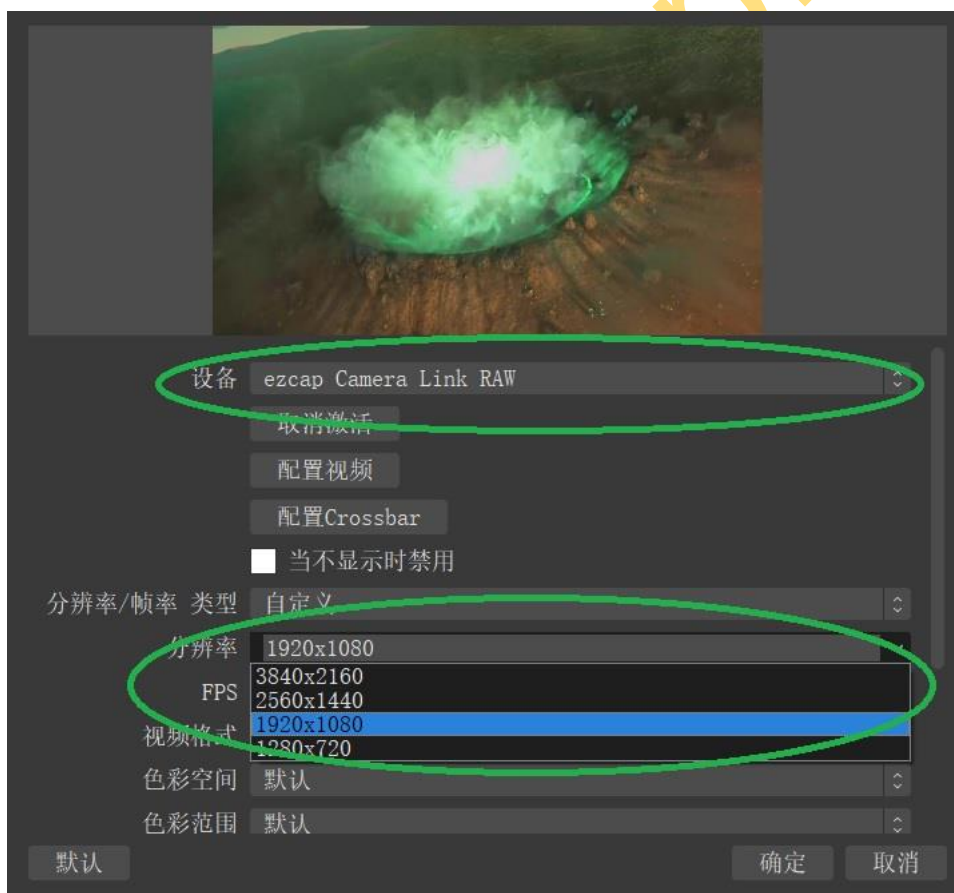
OBS 安装后，双击运行，点击添加“视频捕获设备”：



点击下图中的“确定”按键



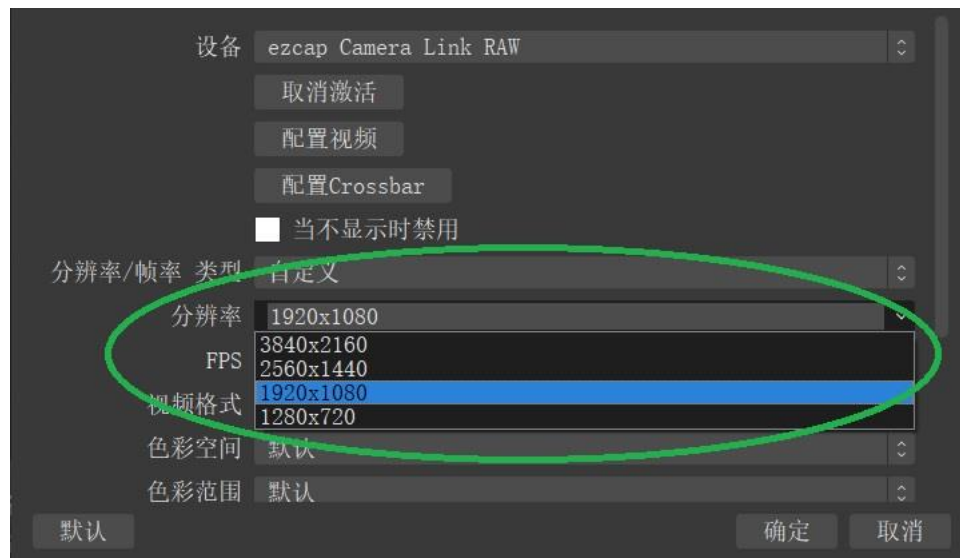
设备中选择 “ezcap Camera Link RAW ”



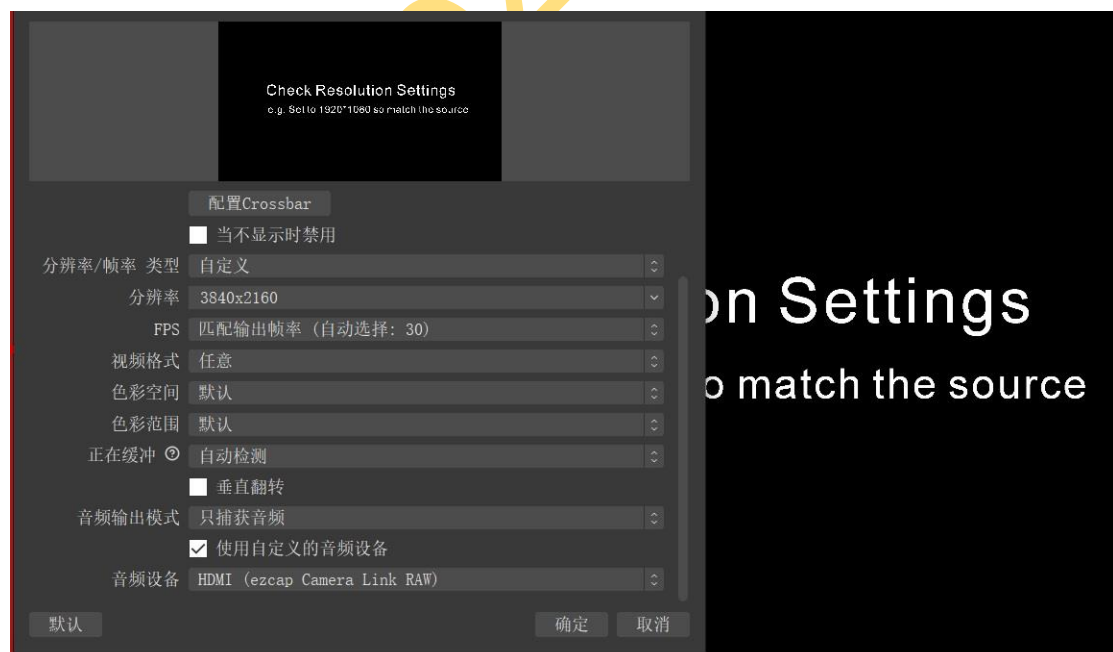
分辨率设定

分辨率: 选择设备默认或自定义

选一个需要的分辨率(若自定义):



注: 此处设置的分辨率不能高于输入源分辨率, 否则软件窗口会提示 “Check Resolutions Settings” (假设输入源为 1080, 但这里却设置为 3840*2160):



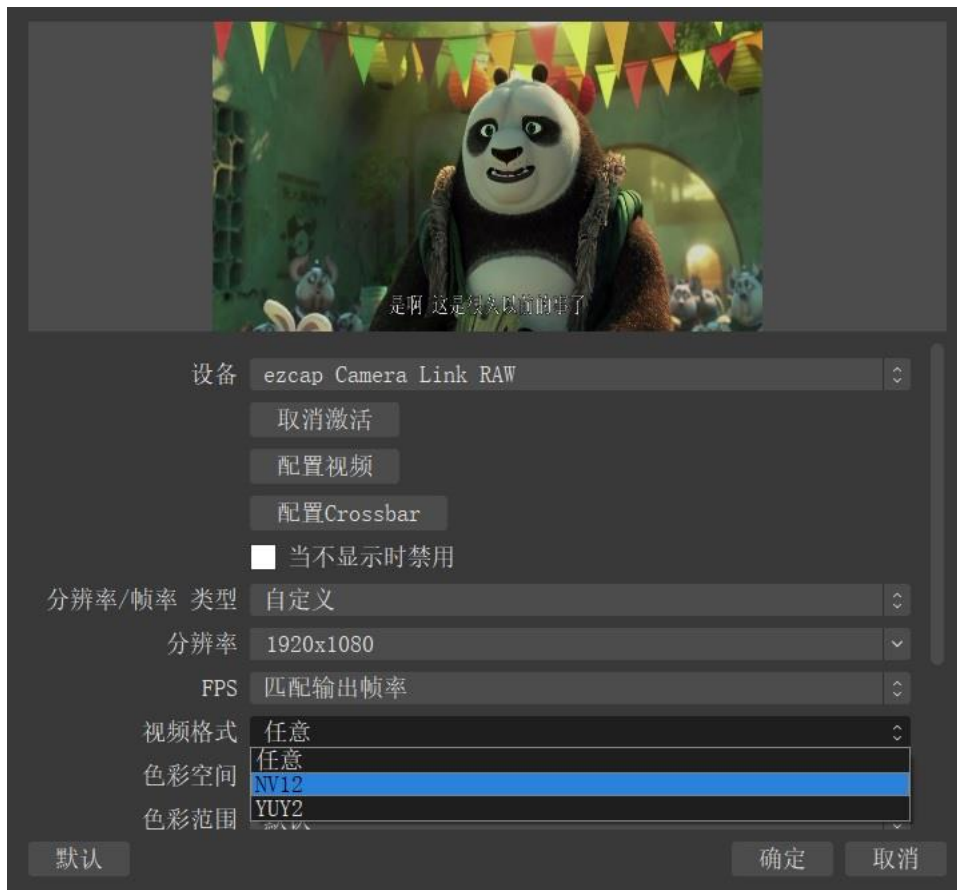
此时尝试将分辨率设为 1080, 或检查帧率的设置情况

若将分辨率设置为 4k (3840*2160)（且输入源也为 4K），你可能会发现画面超出了 OBS 画框的范围：

此时可右击软件窗口，选择“调整输出大小（到源大小）”则可将画面刚好填满画框



视频格式和帧率



视频格式，帧率，最高可达帧率（FPS）相对应关系如下：

可以看到在 3840*2160 分辨率时，仅有 NV12 格式可选，且最大帧率为 30

| | 视频格式 | 最大帧率 |
|-----------|------|------|
| 3840*2160 | NV12 | 30 |
| 1920*1080 | NV12 | 120 |
| | YUY2 | 60 |
| | XRGB | 30 |
| 2560*1440 | NV12 | 60 |
| | YUY2 | 50 |
| 1280*720 | NV12 | 60 |

| | | |
|--|------|----|
| | YUY2 | 60 |
| | XRGB | 60 |

音频设定

音频输出模式：选择“只捕获音频”

勾选“使用自定义的音频设备”

音频设备：选择“HDMI (ezcap Camera Link RAW)”



点击属性----高级音频属性



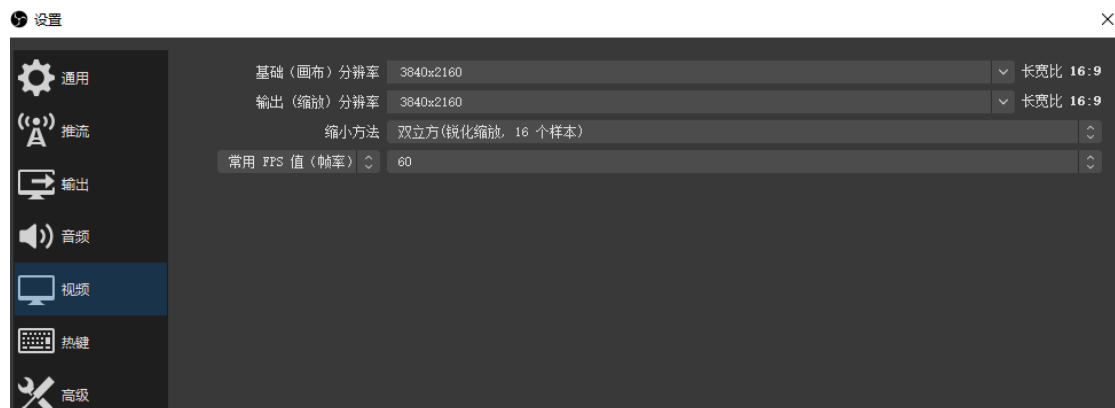
在音频监听中选择“仅监听（输出静音）”；同步偏移中填写 - 470ms,这个设定



是为了音视频同步，可依据实际情况作调整大小。

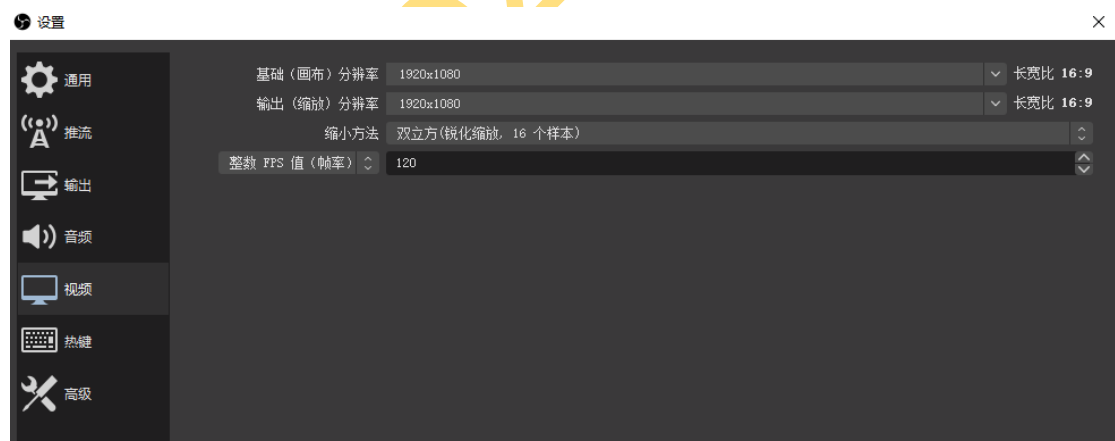
录制

设定录制分辨率，可设为 3840*2160 录制：



也可以设定为 1920*1080 120HZ 录制：

帧率处选择“整数 FPS 值 (帧率)”然后填写 120 于空格处：



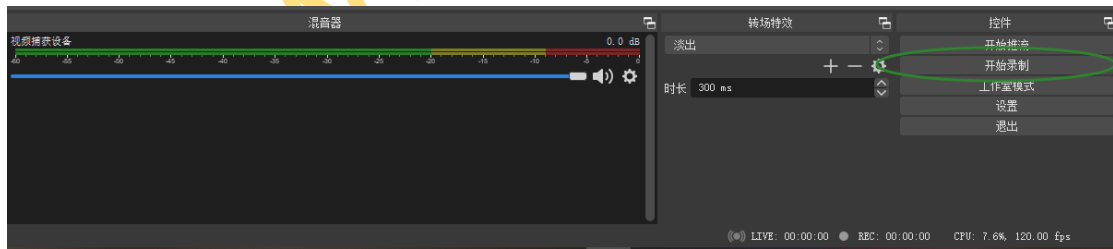
录制输出设定:



若想录制高质量的视频，一个建议的设定如下:

| | |
|------|------------------------------|
| 录制质量 | 高质量，中等文件大小 |
| 录制格式 | Mp4 |
| 编码器 | 软件（x264 低 CPU 使用预设，将会增加文件大小） |

上述设定后，点击“开始录制”进行录制，录制中再次点击此按钮可以停止录制



推流（直播）

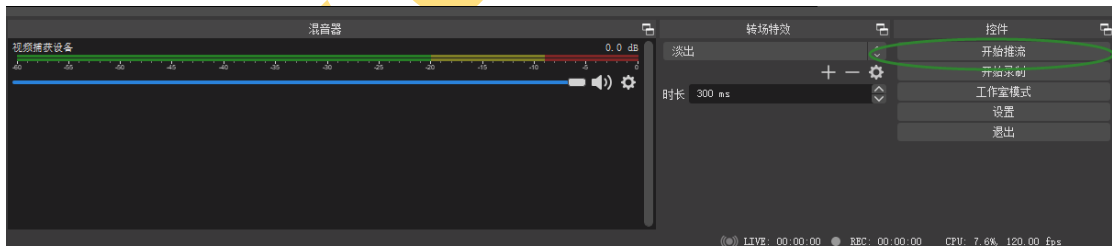
设置推流的视频比特率等（可依据使用的电脑性能，以及网络速度作调整）



设置服务器：



点击“开始推流”以进行直播



产品规格

| | |
|------|----------|
| 接口 | USB3.0 |
| 视频输入 | HDMI 1.4 |

| | |
|----------------|----------------------------|
| 音频输入 | HDMI 嵌入音频 |
| 最大输入分辨率 | 1080p120, 2160p30, 1440p60 |
| 最大录制分辨率 | 1080p120, 2160p30, 1440p60 |
| 支持分辨率 | 2160p, 1440p, 1080p, 720p |
| 视频格式 | YUY2, NV12, RGB |
| 尺寸 (长 x 宽 x 高) | 89 x 40 x 12 mm |

电脑系统需求

Windows 10 x64

笔记本

4Kp30 或 1080p120 录制:

- Intel Core i7-7700HQ 或以上
- NVIDIA® GeForce® GTX1050 Ti 或以上
- 8 GB*

1080p60 录制:

- Intel Core i7-4810MQ
- NVIDIA® GeForce® GTX 870M 或以上
- 8 GB

台式机

4Kp30 或 1080p120 录制:

-
- Intel® Core™ i5-6XXX / AMD Ryzen™ 3 XXX 或以上
 - NVIDIA® GTX 1060 / AMD RX 5700 或以上
 - 8 GB*

1080p60 录制:

- Intel® Core™ i5-3330 or above (推荐 i7-3770)
 - NVIDIA® GeForce® GTX 650 / AMD Radeon™ R7 250X 或以上
 - 4 GB
- * RAM DDR4 2400 或以上

Mac 系统:

MacOS High Sierra 10.15 或以上

4Kp30 或 1080p120 录制:

iMac 2019:

- 3.2GHz 6-core Intel Core i7
- Radeon Pro 555X 2GB GDDR5
- 16GB 2400MHz DDR4

MacBook Pro 2018:

- 2.6GHz 6-core Intel Core i7
- Radeon Pro 560X 4GB GDDR5
- 16GB 2400MHz DDR4