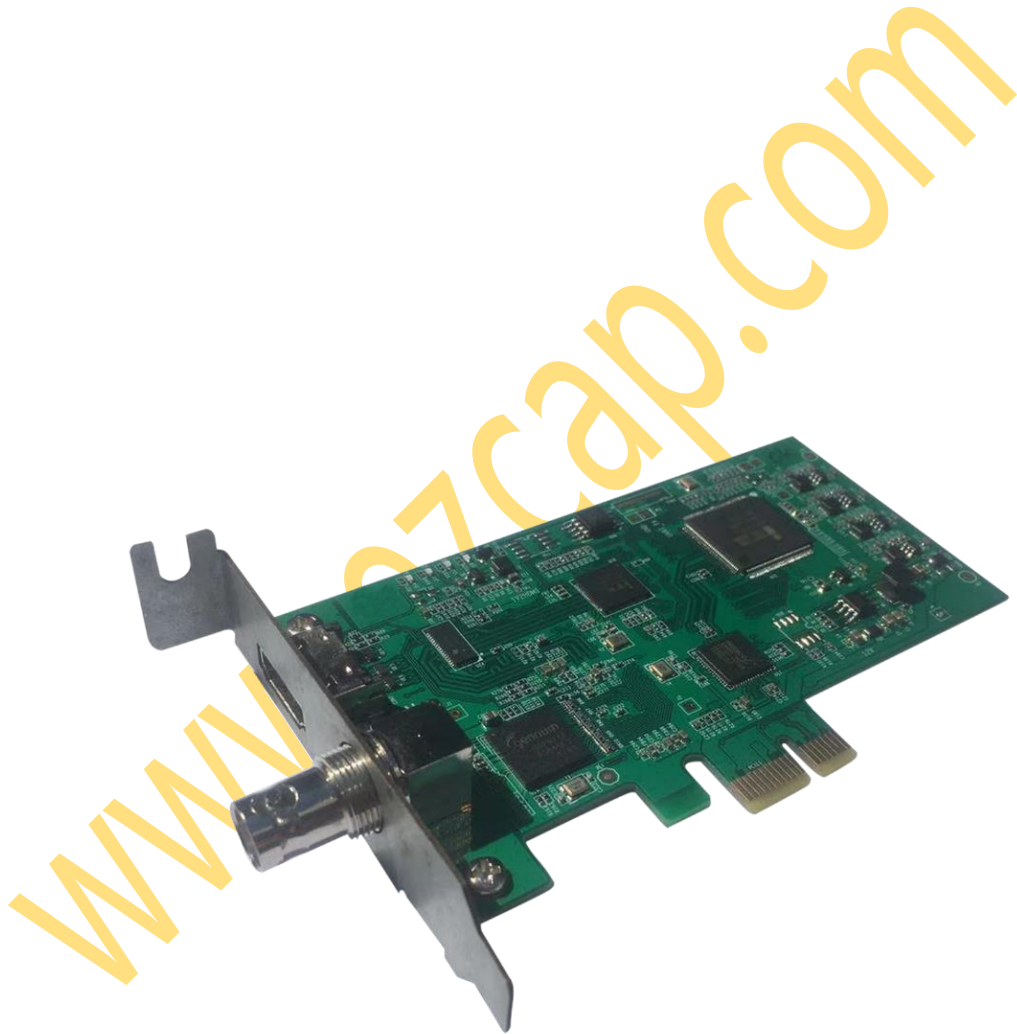
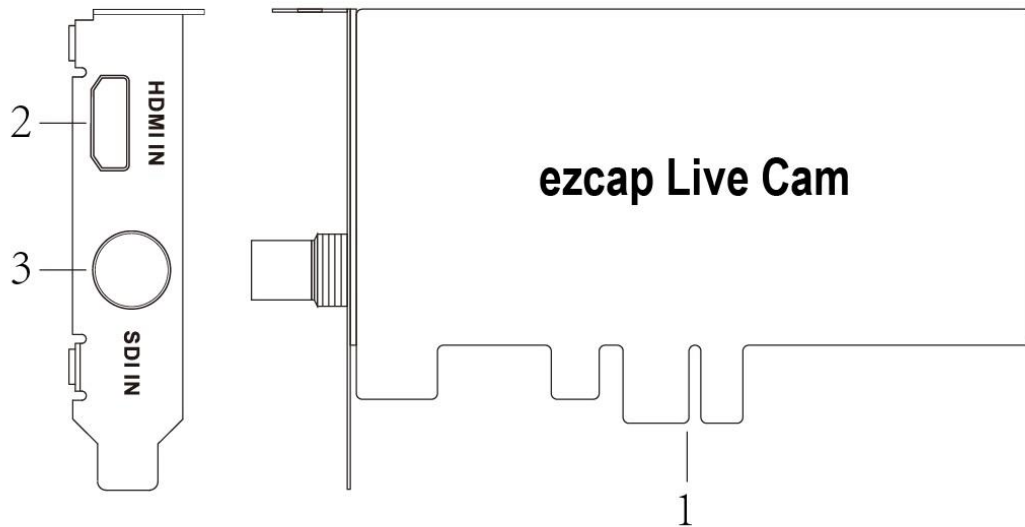

manual

Live Cam

Model number: ezc325



Overview



1, PCI-E X1: Connect to PCI-E slot of your computer

2, HDMI IN: HDMI input port, connect to camera or other video source

3, SDI IN: SDI input port, connect to camera or other video source

Note: It is not recommended to connect HDMI signal and SDI signal at the same time, if they are connected at the same time, SDI signal will be given priority by default.

In the Box

ezcap325 Live Cam x1, Standard Profile Bracket x1, Manual x1

Hardware

Before installing ezcap325 Live Cam capture card, make sure your computer has a free PCI-E X1 slot.

Before you get started, make sure your PC is shut down. Then disconnect all the cables from the back of the computer. Only begin this process when everything is disconnected.

Remove the cover on the PC. After you identify a PCIe slot, unscrew the small metal bracket attached to the computer case directly behind the PCIe slot. Gently yet firmly, slide the video capture card into the PCIe slot, making sure it's fully locked down. Screw the card into the back of the case so that the inputs and outputs are exposed on the back of the computer case. Place the panel on the case, put the screws back in, and stand the case upright. Plug all the cables back into the case. Power on the PC.

System will automatically recognize the game capture card, and you will see the device name "ezcap Live Cam" in the Device Manager, which means that the device is ready to work.

Note: We don't recommend using the device on Windows 7 system, but if you need, please download the driver and install it.

<http://www.cddownload.top/ezcap323win7driver.zip>

Software

For professional live streaming or recording, we suggest use OBS, download link:<https://obsproject.com/>

Note: ezcap Live Cam capture card also can work with Mac Pro, and please download OBS Mac version. The operation is similar as working under Windows as below.

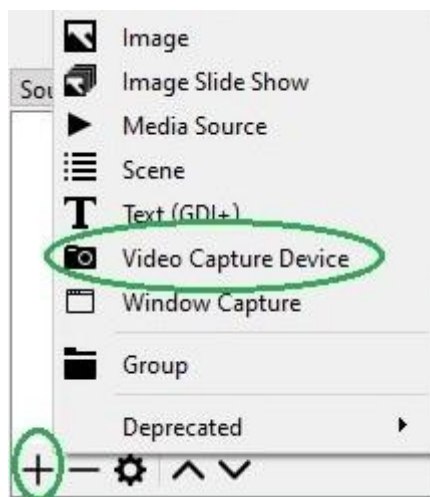
Work with OBS

Select Device

After download and installation, double click **OBS Studio** icon on desktop to run OBS.

Click icon **+** under **Sources** window at the bottom left of OBS panel, and select **Video**

Capture Device. Click **OK** in the new pop-up window. You also can insert a name you want to create for the device. One window will appear you after above. Please click the drop-down box next to **Device** and select **ezcap Live Cam**.



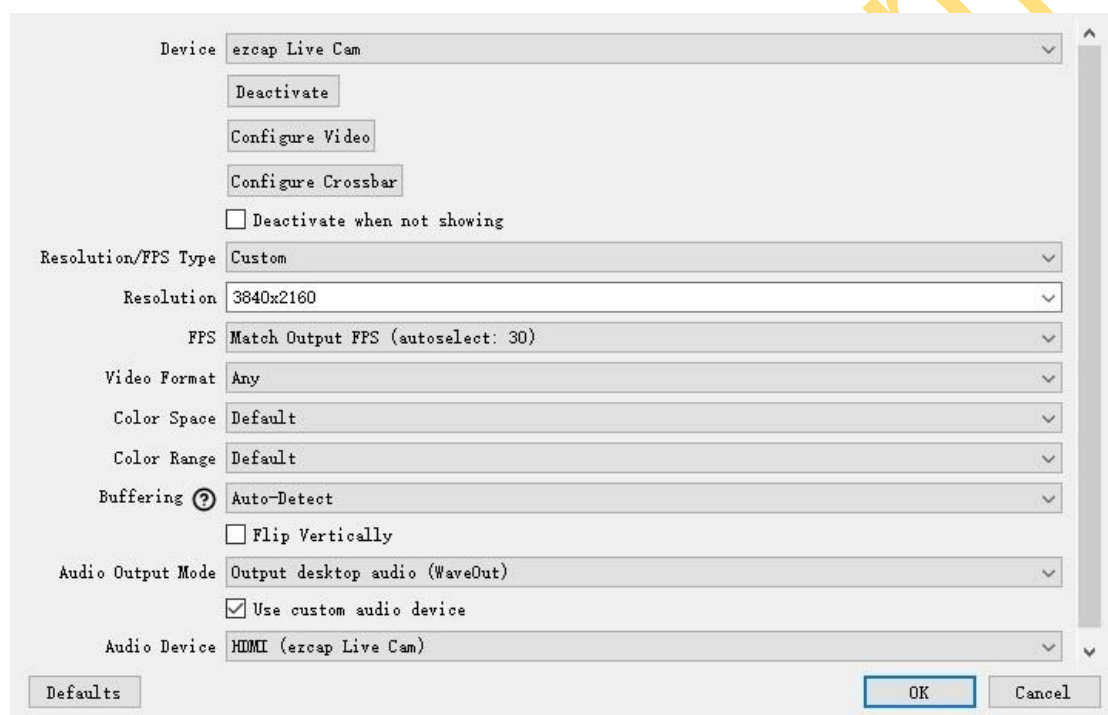
Video Setting

You should get the video in window. If you want to set the video resolution, click the drop-down box next to **Resolution/FPS Type** and select **Custom**, then click the drop-down box next **Resolution** to select one resolution.

Note: The default output resolution of ezcap325 Live Cam capture card is 1920 x 1080 @ 60fps NV12, because the Max input resolution of SDI source is 1920 x 1080. The Max input resolution of HDMI source is 3840 x 2160 @30fps, and then you can choose the

output resolution to the same resolution.

After you set the resolution to 3840 x 2160, and you change the video source, and the resolution of video source is smaller than 3840 x 2160, such as 1920 x 1080, the software will not display the video and you will see **Check Resolutions Settings** on the window. Now you need to set resolution to 1920 x 1080 or smaller resolution, then you will see the video on the window.



If resolutions of video source and device output are 3840 x 2160, you may find that the viewing picture is way 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 the drop-down box next to **FPS** to select the appropriate FPS - **30,60,Highest FPS**, or **Match Output FPS**, and click the drop-down box next to **Video Format** to select the video format - **XRGB, NV12, or YUY2**.


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

resolution and video format:

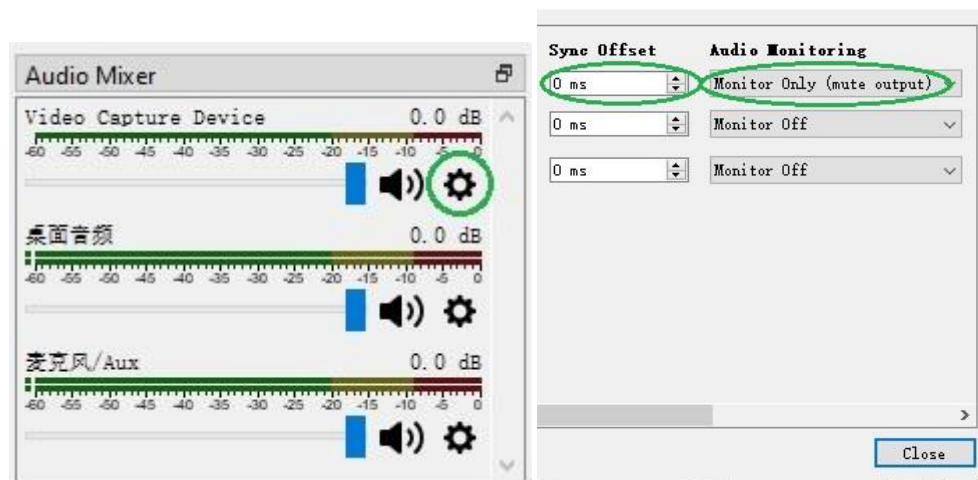
	Video Format options	MAX FPS
3840 x 2160	NV12	30
1920 x 1080	NV12	120
	YUY2	60
	XRGB	30
2560 x 1440	NV12	60
	YUY2	50
1280 x 720	NV12	60
	YUY2	60
	XRGB	60

Audio Setting

You may can not hear the sound when you finish above settings. Please tick **Use custom audio device**, and click the drop-down box next to **Audio Device** and select **HDMI (ezcap Live Cam)**, you will hear the sound now.

If you still cannot hear the sound, please click  under **Audio Mixer** and **Video Capture Device** at the bottom middle of OBS panel as below picture and select **Advanced Audio Properties**. In **Advanced Audio Properties** window, click drop-down box under **Audio Monitoring** and select **Monitor Only (mute output)**. Please set to - **470ms** under **Sync offset**, for audio and video sync, you can adjust it till your audio

video is synchronous.



Maybe you hear the noise if the resolution is 3820 x 2160. Please click the drop box next to **Audio Output Mode** as above picture, and change the selection from **Capture audio only** to Output **desktop audio (WaveOut)** or **Output desktop audio (DirectSound)**.

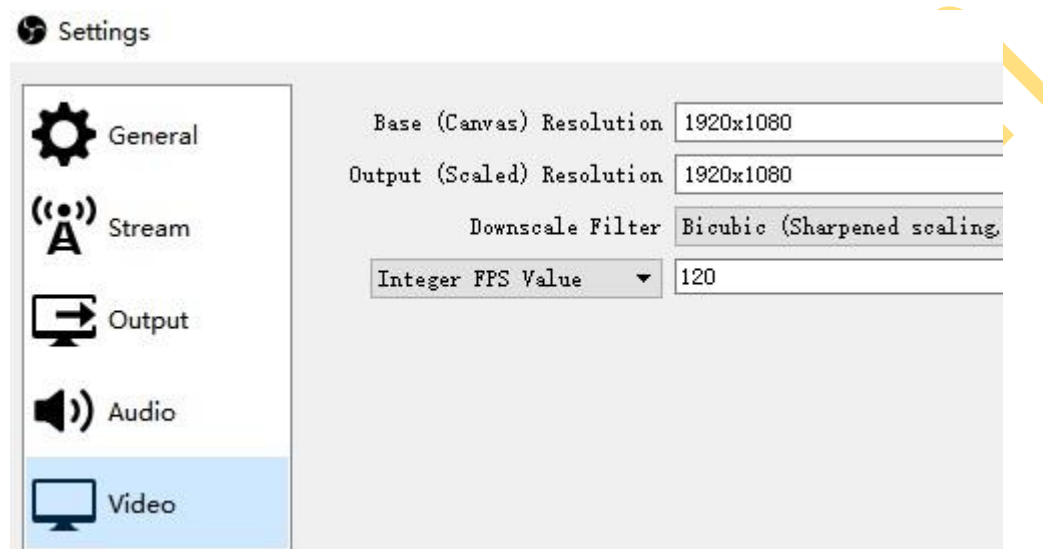
Note: If you hear the noise when using SDI input, please select **Audio Output Mode** to **Output desktop audio (WaveOut)** or **Output desktop audio (DirectSound)**. And if the audio sampling rate of your video source is not 48Khz, then you will hear a bad sound.

Note: If you want to change video audio settings, please double click the name of **video capture device** in **Sources** column, and change the settings you want as above operations.

Recording

Click **Settings** in the low right corner of OSB panel, and click **Video** on the left in the pop-up Settings window. Click the drop-down box next to **Base (canvas) Resolution** to

select the appropriate resolution, and click the drop-down box next to **Output (Scaled)** **Resolution** to select the output resolution. Click the drop-down box next to **Common FPS Values** to select the FPS values. If you want to record 120HZ video, please click the drop-down box of **Common FPS Values** and select **Integer FPS Values**, then enter 120 in the window on the right.



Click **Output** on the left of Settings window as above, in **Recording** column, you can set **Recording Path, Recording Quality, Recording Format, Encoder**. 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, click **Apply** and **Ok** in the low right corner of Settings panel, then simply click **Start Recording** in the low right corner of OSB panel to start recording videos, 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 in the Settings panel. Click **Stream** in the Settings panel then you can click the drop-down box next to **Service** to choose the software platform you want, then click icon Apply and OK in the Settings panel.

Click **Start Streaming** in the low right corner of OSB panel to start streaming, and click **Stop Streaming** to stop streaming.

Note: Please click the **help** at the top of the OBS interface, and learn more about OBS in the link that pops up.

Specifications

Interface	PCIe Gen 2 X1
Input	HDMI 1.4 or 3GSDI
Audio Input	HDMI, SDI
Max. Recording Resolution(HDMI)	1080p120, 2160p30, 1440p60
Max. Recording Resolution(SDI)	1080p60
Supported Resolution(HDMI)	2160p, 1440p, 1080p, 720p
Supported Resolution(SDI)	1080p,720p

Video Format(HDMI)	YUY2, NV12, XRGB
Video Format(SDI)	YUY2, NV12,XRGB
Dimensions (W x D x H)	130 x 80 x 22 mm

Operating System

Windows 10 x64, PCI-E X1 slot

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:

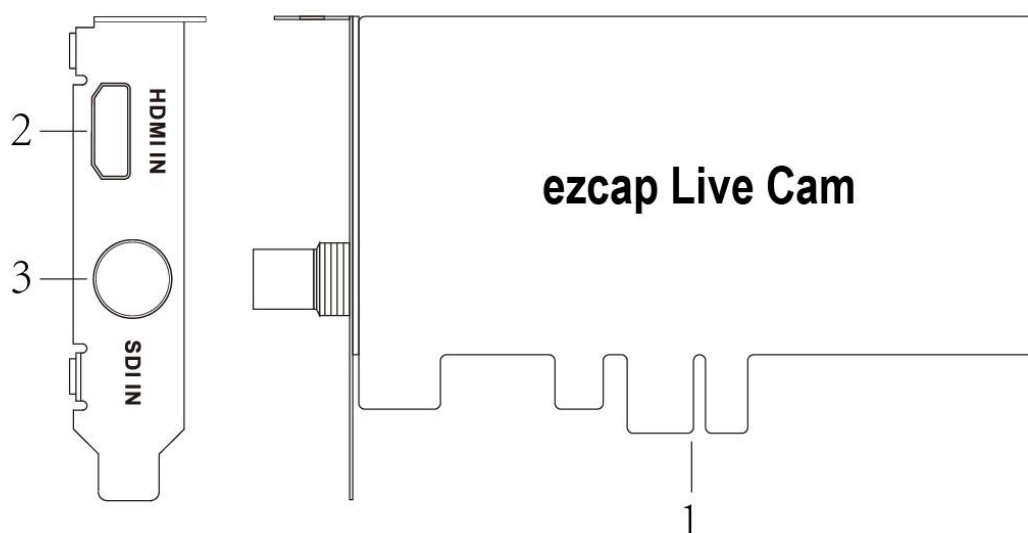
- Intel Core i5-3330 or above (i7-3770 recommended)
- NVIDIA GeForce GTX 650 / AMD Radeon R7 250X or above
- 4 GB

* RAM must be DDR4 2400 or above

Mac system requirement:

Mac Pro, MacOS X High Sierra 10.15 and above, PCI-E X1slot

概览



1, PCI-E X1: 插入到电脑的 PCI-E 槽

2, HDMI IN: HDMI 输入接口, 连接到摄像机或别的视频源

3, SDI IN: SDI 输入接口, 连接到摄像机或别的视频源

注意: 不建议同时接入 HDMI 和 SDI 信号, 如果同时接入的话, SDI 信号优先。

包装内容

ezcap325 Live Cam SDI HDMI 高清采集卡 x1, 标准板卡支架 x1, 说明书 x1

硬件

在安装 ezcap325 Live Cam SDI HDMI 高清采集卡之前, 请确保您的计算机具有可用的 PCIe

插槽。在开始之前，请确保您的电脑已关闭。然后从计算机背面断开所有电缆的连接，仅在断开所有连接时才开始此过程。卸下主机上的护盖。识别 PCIe 插槽后，拧下紧接在 PCIe 插槽后面的计算机机箱上的金属小支架。将视频采集卡轻轻而牢固地插入 PCIe 插槽，确保其完全锁定。将卡拧入机箱的背面，使输入和输出暴露在机箱的背面。将面板放在机箱上，拧回螺钉。将所有电缆重新插入外壳。打开电脑电源。

系统会自动识别该 SDI HDMI 高清采集卡，你会在设备管理器看到设备名称 **ezcap Live Cam**，则表示设备已经可以工作了。

注：通常我们建议在 Windows 10 下使用该设备，而不建议于 Windows 7 下使用，如果您确实需要，请下载驱动并安装。

<http://www.cddownload.top/ezcap323win7driver.zip>

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/>

注：ezcap Live Cam SDI HDMI 高清采集卡也可与 Mac Pro 配合使用，下载 OBS Mac 版本即可。操作与下面在 Windows 下使用说明类似。

配合 OBS 使用

设备选择

下载并安装后，双击桌面上的 OBS Studio 图标以运行 OBS。单击 OBS 面板左下角的图标+，然后选择**视频采集设备**。在弹出的窗口中单击**确定**，在这个窗口你也可以为设备改写新的名称。

点击确定之后，在弹出的窗口中单击**设备**旁边的下拉框，然后选择 **ezcap Live Cam**。



视频设置

这些设置完成后，应该能在软件捕获窗口中看到视频。如果你需要设置视频分辨率，单击**分辨率/ FPS 类型**旁边的下拉框，然后选择**自定义**，然后单击**分辨率**旁边的下拉框，选择一种你需要的分辨率。

注:因为 SDI 输入时最大支持输入分辨率为 1920 x 1080, 所以我们设定 ezcap Live Cam SDI HDMI 高清采集卡的默认输出分辨率为 1920 x 1080. 如果你在使用 HDMI 输入源时,则最大分辨率支持 3840 x 2160 @30fps, 此时你可以将设备输出分辨率设置为 3840 x 2160.

在你设置了分辨率为 3840 x 2160 后, 如果你更改了视频源的分辨率小于 3840 x 2160, 比如 1920 x 1080, 则软件将不会显示视频, 并且会在窗口上看到 **Check Resolutions Settings**.

这时你需要将分辨率设置为 1920 x 1080 或更小分辨率, 这样才能在窗口中看到视频。

设备

ezcap Live Cam

取消激活

配置视频

配置Crossbar

☐ 当不显示时禁用

分辨率/帧率 类型

自定义

分辨率

3840x2160

FPS

匹配输出帧率 (自动选择: 30)

视频格式

任意

色彩空间

默认

色彩范围

默认

正在缓冲 ?

自动检测

☐ 垂直翻转

音频输出模式

只采集音频

☒ 使用自定义的音频设备

音频设备

HDMI (ezcap Live Cam)

默认

确定

取消

若您的视频源分辨率为 3840 x 2160, 且将 OBS 分辨率也设置为 3840x2160, 你还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。

您可以点击 **FPS** 旁的下拉框以选择适当的帧率– **30,60,最高** 或 **匹配输出帧率**. 还可点击**视频格式**旁的下拉框以选择适当的视频格式 – **XRGB, NV12, YUY2** 或**任意**.

设备输出视频格式取决于分辨率, 不同分辨率下不同视频格式的最高可达帧率 (FPS) 对应关系如下:

	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

音频设置

完成以上设置后, 你可能听不到声音。请在上述视频设置的界面下勾选**使用自定义的音频设备**, 然后单击**音频设备**旁边的下拉框, 选择 **HDMI (ezcap Live Cam)**, 你应该能立即听到声音。

单击窗口右下角的**确定**按键完成设置。

如果仍然听不到声音, 请单击**混音器**界面的  图标, 然后选择**高级音频属性**。在新的弹出窗口中, 单击**音频监听**下的下拉框, 然后选择**仅监听 (输出静音)**。



为了音视频同步,请在上述弹出的窗口中的**同步偏移**下方填写- 470ms.你可依据实际情况调整数

值,直至音视频完全同步。最后单击界面右下角的**关闭**按键完成设置。

如果分辨率是 3820 x 2160, 那或许你会听到杂音. 请点击上面图片中**音频输出模式**旁的下拉框, 将选项从**只采集音频**改成**输出桌面音频 (WaveOut)** 或 **输出桌面音频 (DirectSound)**.

注意:如果采用 SDI 输入方式时听到噪音, 请将**音频输出模式**选为**输出桌面音频 (WaveOut)** 或 **输出桌面音频 (DirectSound)**. 并且如果你的视频源的音频采样率不是 48KHz 的话, 你就会听到一个很糟糕的声音。

注意: 如果要更改视频或音频设置, 可在软件界面下方的**来源窗口**, 双击**视频采集设备**, 进入**视频采集设备**面板, 按照上文所说的音视频设置操作步骤更改设置。

录制

单击 OSB 面板右下角的**设置**按键, 然后在弹出的**设置**窗口中单击左侧的**视频**。单击**基础 (画布)**

分辨率旁边的下拉框选择适当的分辨率, 单击**常用 FPS 值 (帧率)** 右侧的下拉框以选择 FPS 值。

如果要录制 120HZ 视频, 请单击**常用 FPS 值 (帧率)** 本身的下拉框, 选择**整数 FPS 值 (帧率)**, 然后在右侧栏框处输入 **120**。

在设置完成后, 单击**设置**界面右下角的**应用**和**确定**按键以保存设置。



单击**设置**窗口左侧的**输出**，在**录像**这一栏目下可以设置**录像路径**，**录像质量**，**录像格式**，**编码器**。

如果要记录更好的录制质量，建议的设置之一是：

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）

在各项设置完成后，单击**设置**面板右下角的**应用**和**确定**，然后只需单击 OSB 面板右下角的**开始录制**按键即可开始录制视频，单击**停止录制**即可停止录制。

推流（直播）

单击软件界面的**设置**按键，然后单击**设置**面板左侧的**输出**，在**串流**这一栏目下，可以设置串流的**视频比特率**，**编码器**，**音频比特率**（根据计算机配置及网络速度进行调整）。

单击**设置**面板左侧的**推流**图标，然后单击**服务**这一栏旁边的下拉框以选择所需的软件平台，单击**设置**面板右下角的**应用**和**确定**图标完成设置。

单击 OSB 软件面板右下角的**开始推流**就可以开始直播，点击**停止推流**就可以停止本次推流。

注意：您可以单击软件界面顶部的**帮助**菜单，登录 OBS 网站详细了解更多的使用方法.

产品规格

接口	PCIe Gen2 X1
视频输入	HDMI 1.4 或 3GSDI
音频输入	HDMI, SDI
最大录制分辨率 (HDMI)	1080p120, 2160p30,1440p60
最大录制分辨率 (SDI)	1080p60
支持分辨率 (HDMI)	2160p, 1440p, 1080p, 720p
支持分辨率 (SDI)	1080p, 720p
视频格式 (HDMI)	YUY2, NV12, XRGB
视频格式 (SDI)	YUY2, NV12, XRGB
尺寸 (长 x 宽 x 高)	130 x 80 x 22 毫米

电脑系统需求

Windows 10 x64, PCI-E X1 插槽

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 must be DDR4 2400 或以上

Mac:

Mac Pro, macOS X High Sierra 10.15 或以上, 空闲 PCI-E X1 插槽

VER: 20210609