

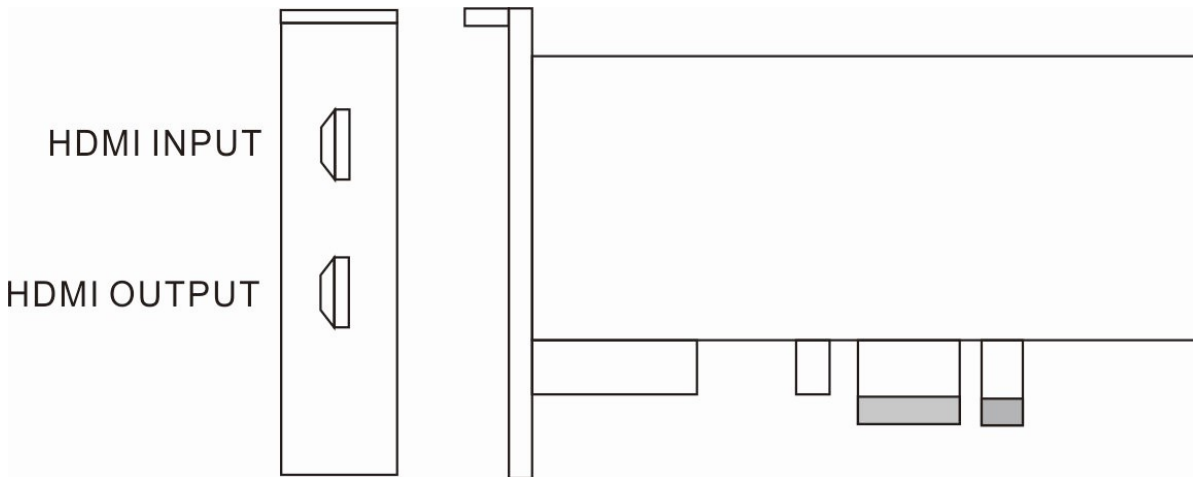
# PCI-E HD Video Capture Card

## Quick Start Guide

Thanks for purchasing ezc294 PCI express HD video capture. The following guides you how to set up. Hope this device will bring you nice digital experience.

Ezc294 PCI Express capture card with HDMI input. It supports 60fps full HD video capture, with HDMI by pass output. It is compatible with windows DirectShow, easy for users to develop application to work with it.

### Features:



HDMI INPUT: For connect the video source

HDMI OUTPUT: For by pass the video of video source.

**Note: it is not a video output of computer like a graphics card**

### How to Use:

First assemble the card to your computer.

Then insert the driver CD to CDRom, install the "driver".

After driver installed, a "FHD Capture" will show in Device manager.

Now you can use various software such as AMCAP, OBS, VLC, Media encoder, etc.

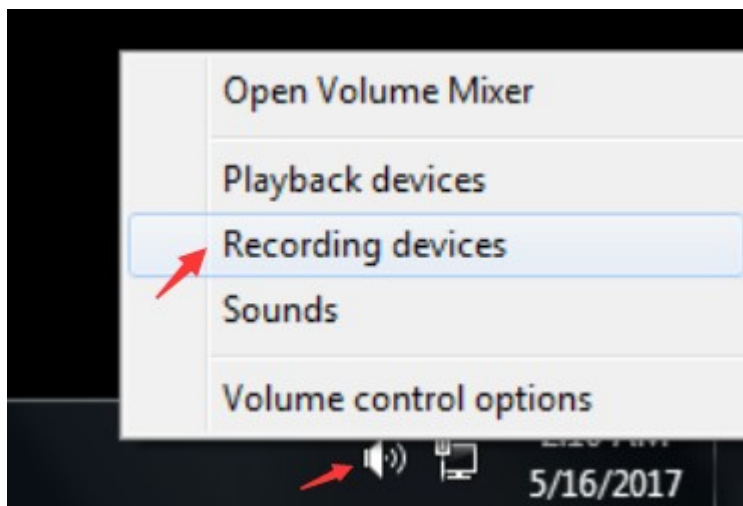
Now shows the example for work with OBS:

**Set the audio capture sample rate :**

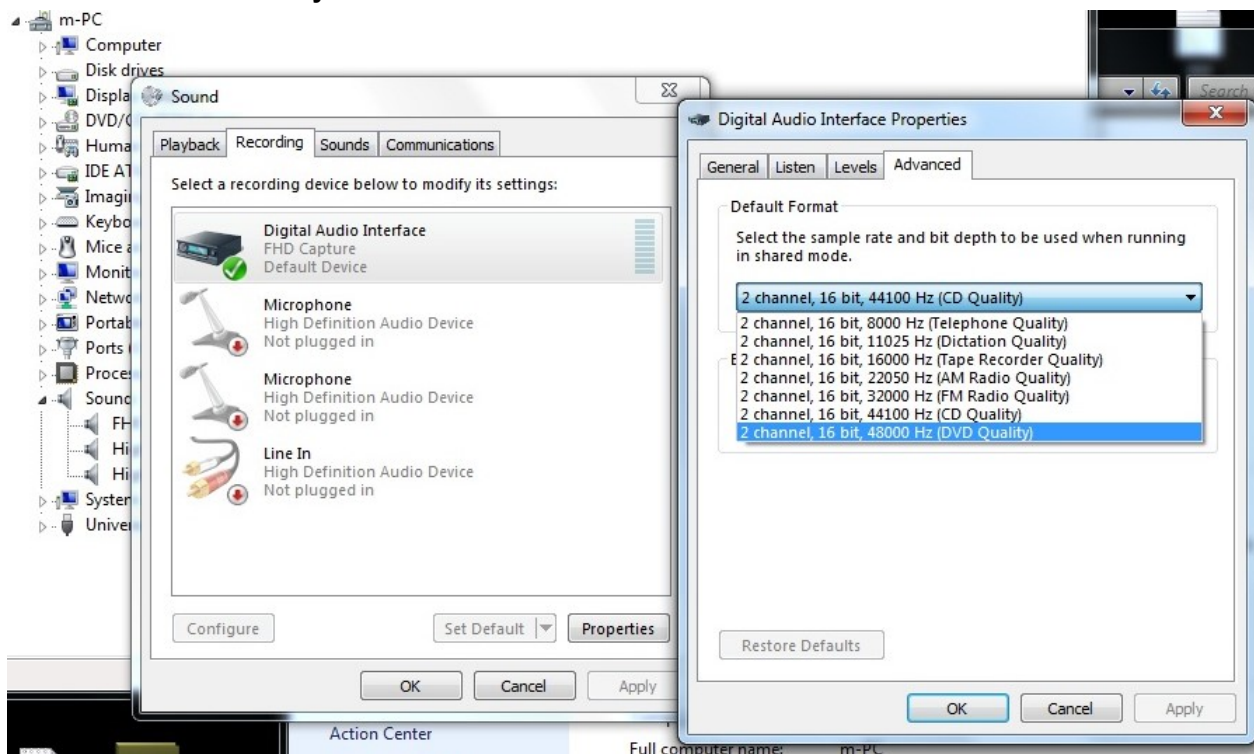
**Note: It is an important setting, otherwise will caused the bad audio quality**

1), Connect the video source to ezc294 from HDMI

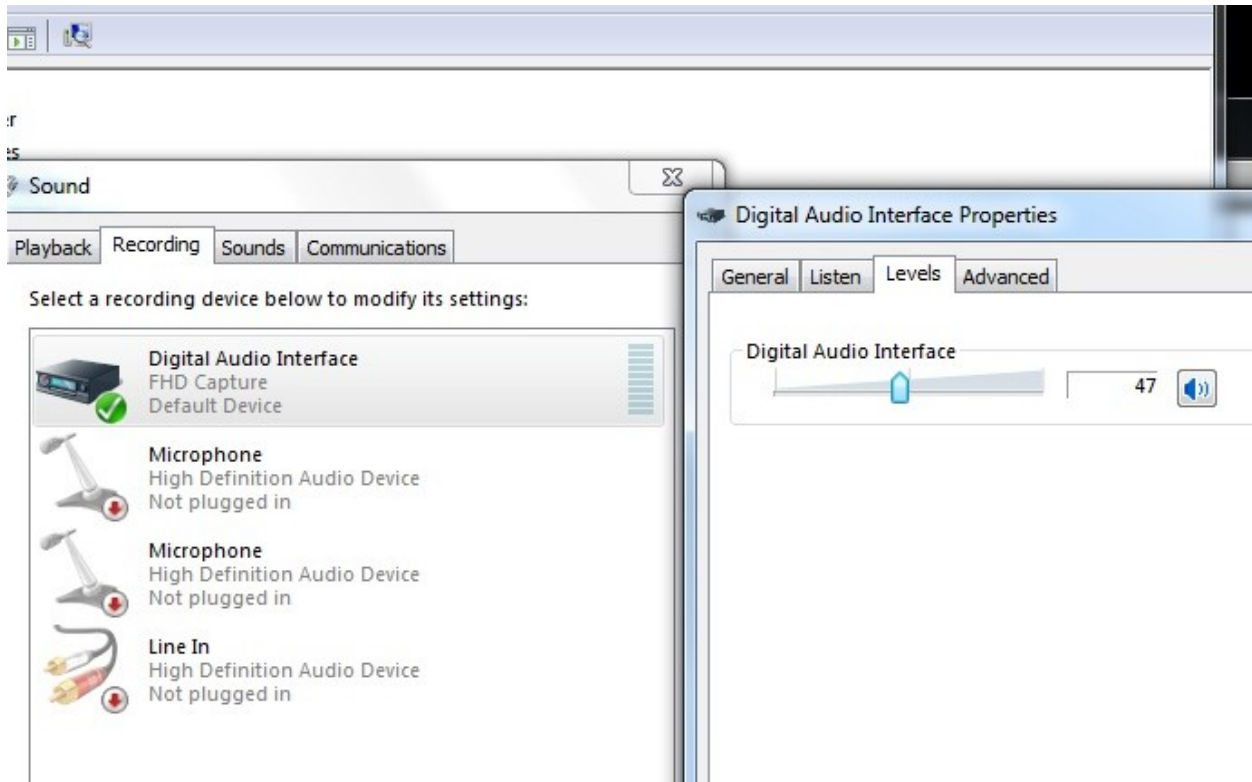
Right click on "Speaker" of your computer, choose "Recording devices"



2), Double click “FHD Capture” ----At “Advanced” choose the sample rate to “2 channel 16 bit, 48000 Hz (DVD Quality)” --Note: Most of all, set to 48000Hz will get nice sound. In case not, and the sound with noise and skip, it means your video source is 44100hz or 32000hz, then you need set here to 44100 or 32000 to make your sound without noise

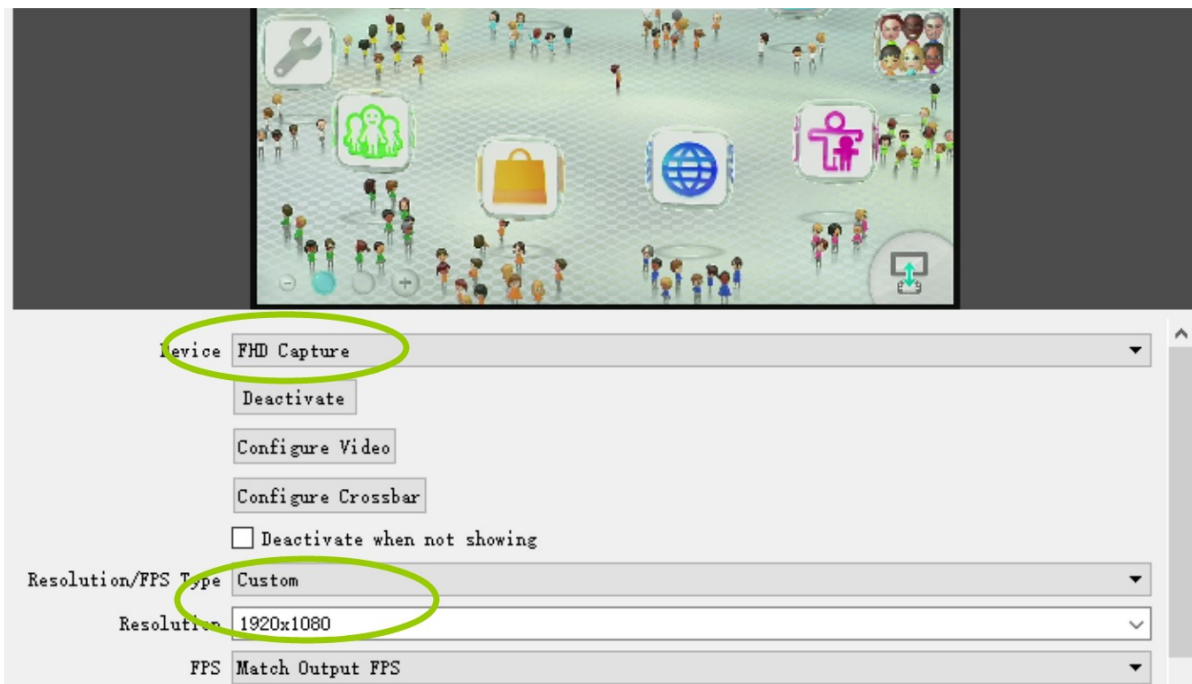


3), If need adjust the input audio level, or if no audio input, at “Levels”, set the value:

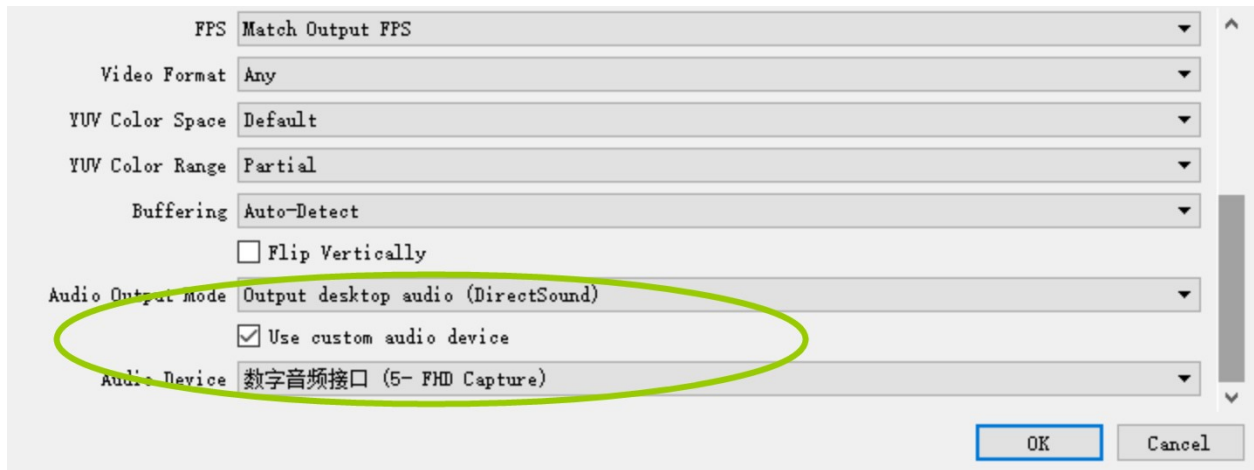


### **Work with OBS Studio:**

- 1, Install the OBS from driver CD, or Go to [obsproject.com/download](https://obsproject.com/download) to download latest OBS Studio and install
- 2, Run OBS Studio, Click “+” icon under “Sources” window, and select “Video Capture Device”, then select “FHD Capture” in the drop box next to “Device”:

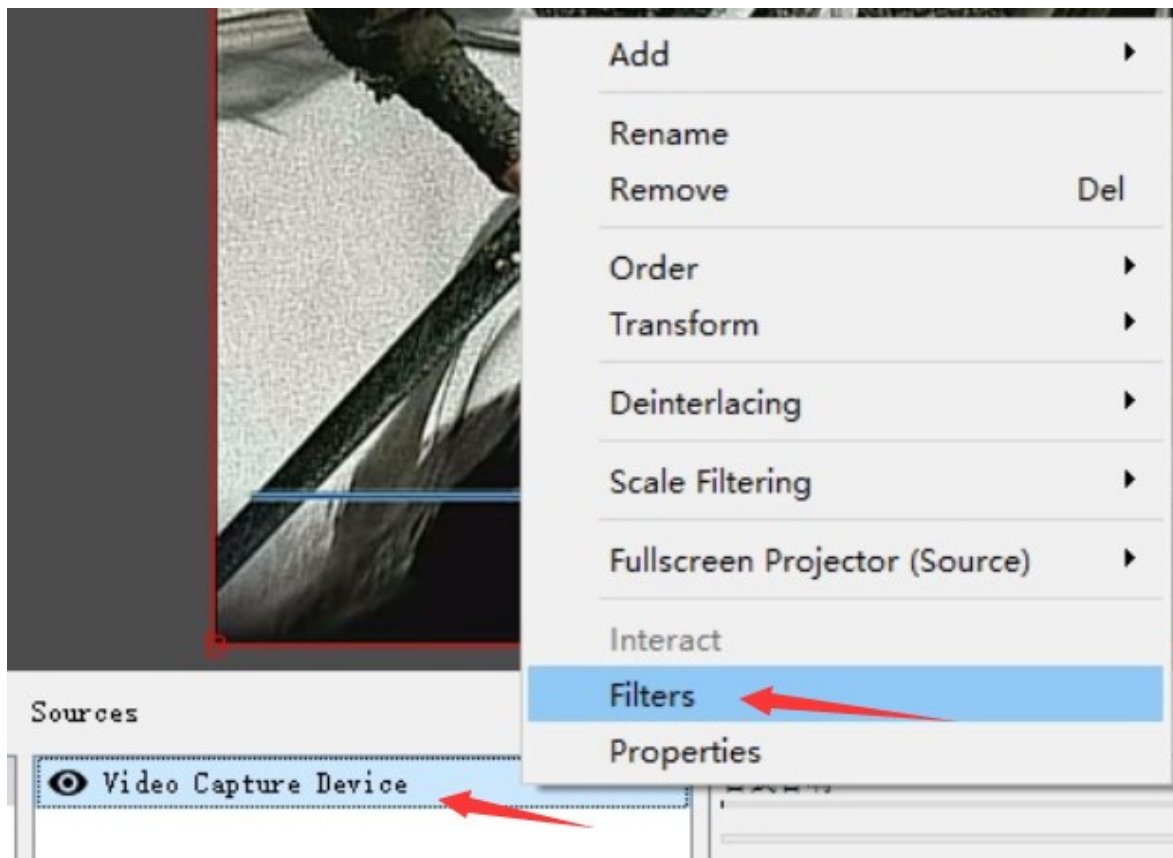


- 3, At Set Audio Output Mode to “Output desktop audio (WaveOut), Audio Device to “FHD Capture”:

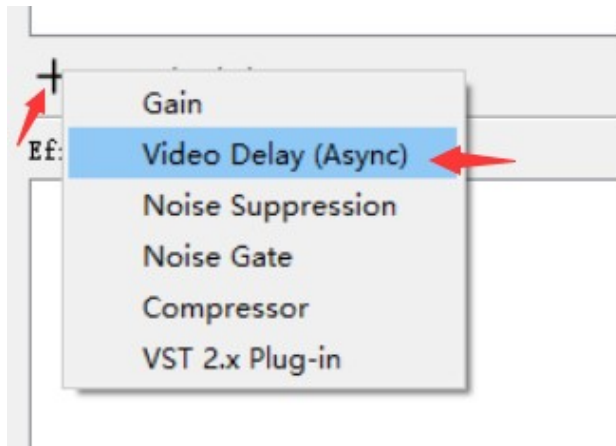


4, Set the video latency for make the audio and video synchronized:

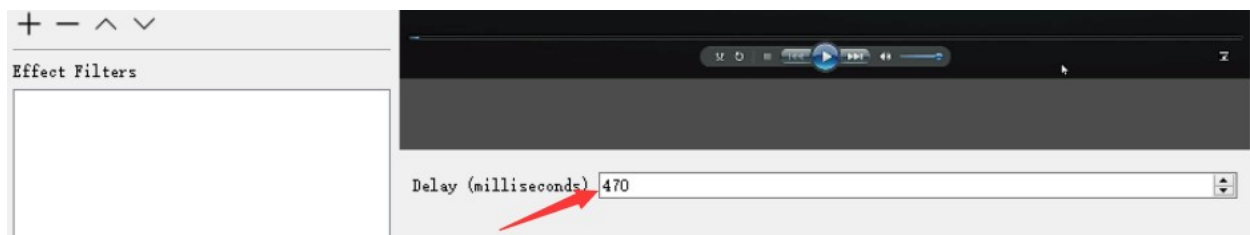
1) Right click "Video Capture Device" then click "Filters":



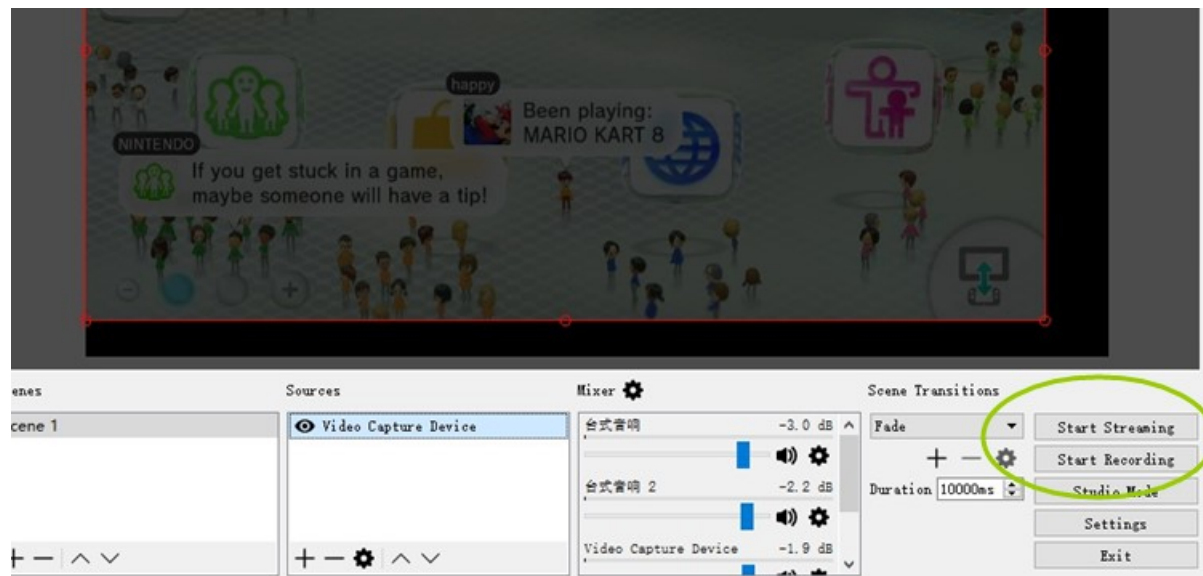
2) Click to add "Video Delay (Async)" :



3) Set it to 470ms (You can adjust it smaller or bigger until you found the audio and video synchronized):



5, Then you can recording or streaming video:



Work with other applications (e.g. VLC, Media encoder, Protplayer...):  
Just run the application then choose capture device to "FHD Capture".

## Specifications:

### Connections

Interface	PCI express
Video Input	HDMI

<b>Audio Input</b>	HDMI
<b>Video Output</b>	HDMI
<b>Audio Output</b>	HDMI

#### Hardware Extra

<b>Dimensions</b>	105*90*21MM
<b>Weight</b>	50

#### Package Contents

<b>Device</b>	ezcap294 PCI express HD capture card
<b>Others</b>	Driver CD, manual

#### Standards

<b>System Requirement</b>	Windows 7,8,10 PC: Intel Core i5-3400 + NVIDIA GT630, NB: Intel Core i7-3537U 2.0 GHz + NVIDIA GT735, VGA card supporting DirectX 10, Sound card, 4GB RAM
<b>Resolution</b>	720 x 480 (60p), 720 x 576 (50p), 1280 x 720p (50p), 1280 x 720p(60p), 1920 x 1080 (50i), 1920 x 1080 (60i), 1920 x 1080 (24p), 1920 x 1080 (25p), 1920 x 1080 (30p), 1920 x 1080 (50p), 1920 x 1080 (60p)  HDMI Output: 1920 x 1080 (60p)
<b>Software compatibility:</b>	OBS Studio; Windows Media Encoder; Adobe Flash Media Live ; Real Producer Plus ; VLC ; Wirecast;; vMix(Windows); Potplayer and etc.
<b>Development interface compatibility:</b>	DirectShow (Windows), DirectSound (Windows)
<b>Record Quality</b>	Max 1080P 60fps

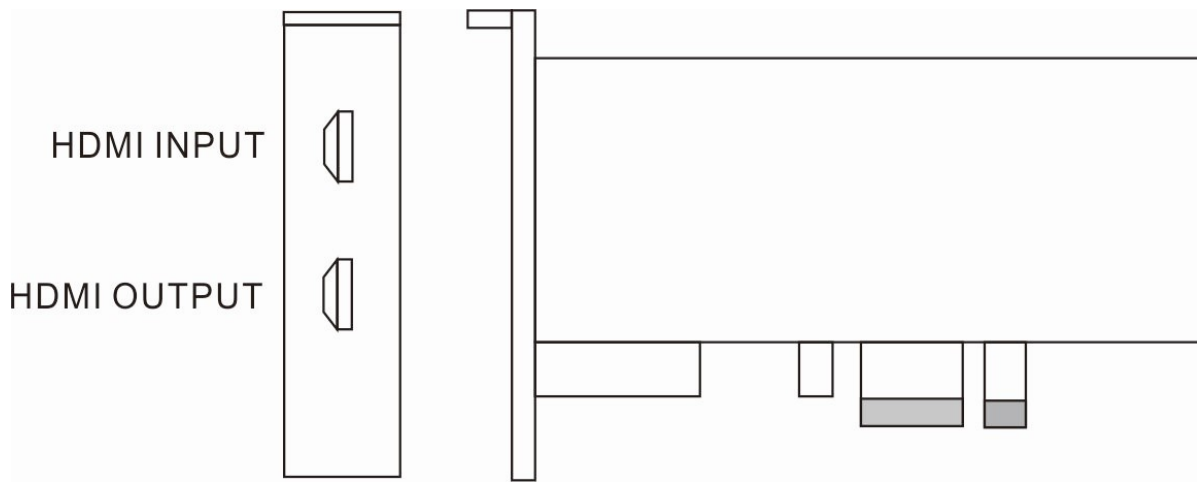
# PCI-E 高清采集卡

## 使用指南

非常感谢您购买我司研发生产的 ezcap294 PCI-E 高清采集卡，下述内容详细说明如何使用和设置该产品，希望这款产品给你带来美好的使用体验！

Ezcap294 PCI Express 高清采集卡带有 HDMI 接口，支持 60FPS 全高清视频采集，带有 HDMI 环出，符合微软 DirectShow 规范，方便用户开发自己的软件。

### 产品特征:



HDMI INPUT—连接视频输入源

HDMI OUT—HDMI 输出端口，用于连接电视机或显示器来显示视频源影像

**注：此接口不是显卡的 HDMI 输出口，不能输出电脑的画面**

### 操作说明

首先将采集卡装进机箱

将驱动光盘插入光驱，安装驱动 “Driver”

安装完毕后可以在设备管理器看到 “FHD Capture”

即可以使用各种软件如 AMCAP, OBS, VLC, Media encoder 去使用了

下面以 OBS 示范使用：

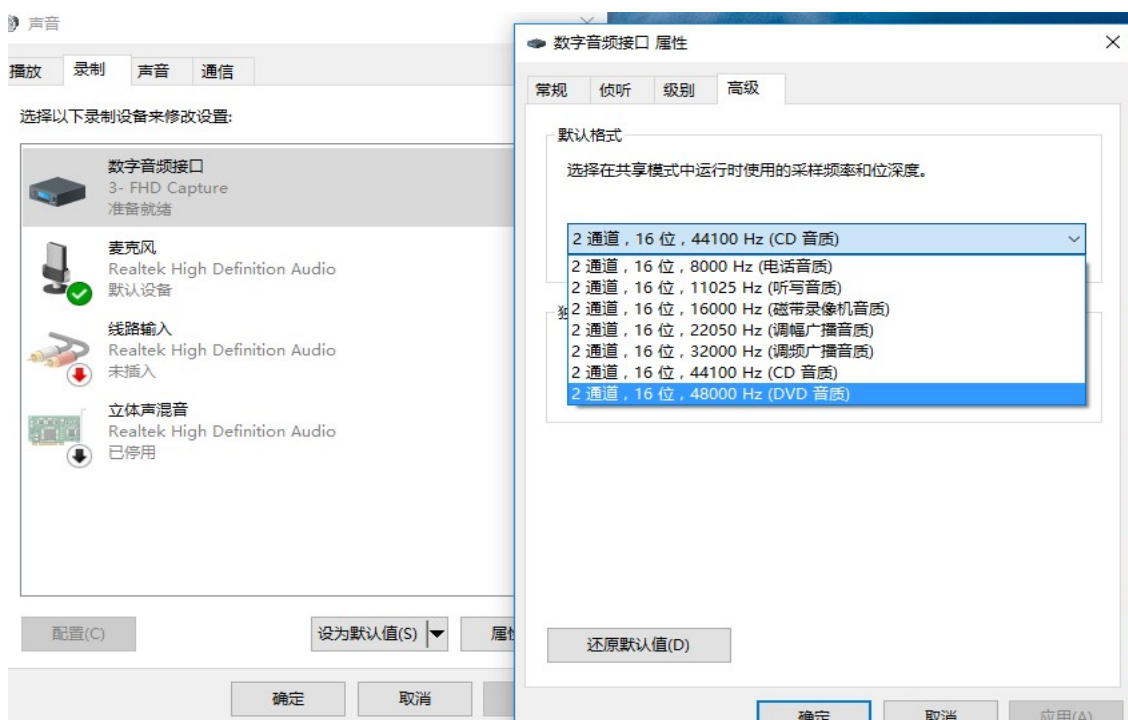
首先，设定音频采集采样率，这非常重要，否则你采集到的可能是糟糕的音频质量。

1， 右击电脑桌面右下角的扬声器图标，选择“录音设备(R)”。

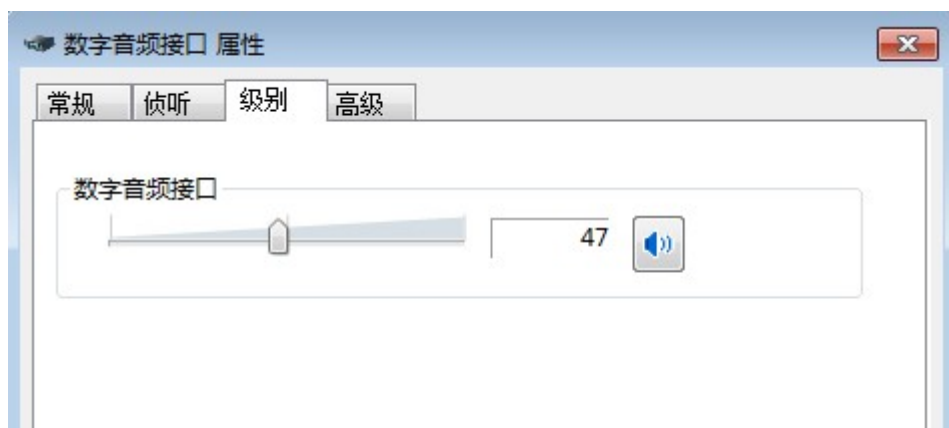




2, 双击“数字音频接口 FHD Capture”后, 在出来的窗口下点击“高级”栏目条, 绝大部分情况下, 在如图的下拉框中选择“2 通道, 16 位, 48000 Hz (DVD 音质)”。也有极个别的情况如输入源为 32000HZ 或 44100HZ 时, 需要相对应的设为 32000HZ 或 44100HZ。



3, 如果发现没有音频输入, 或需要调整输入音频的幅度, 请点击“级别”栏目条, 并在如下窗口中取消静音或设定音量等。

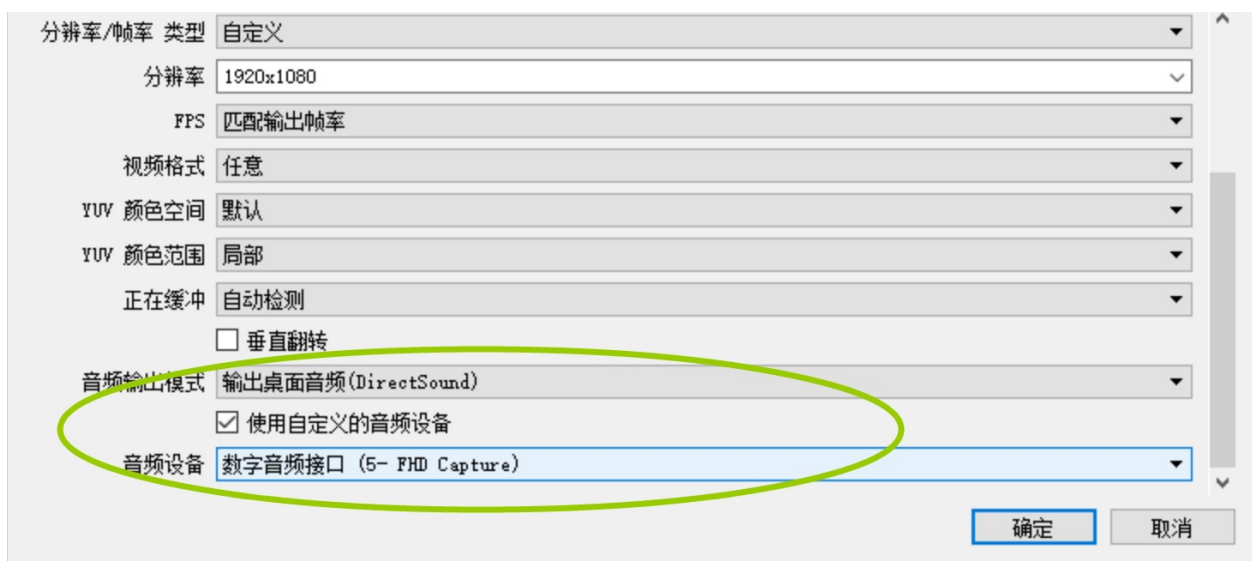


与 OBS Studio 软件配合使用:

1, 安装光盘里的 OBS, 或去 [obsproject.com/download](https://obsproject.com/download) 链接下载对应的 OBS Studio 安装程序, 并根据安装程序提示安装。



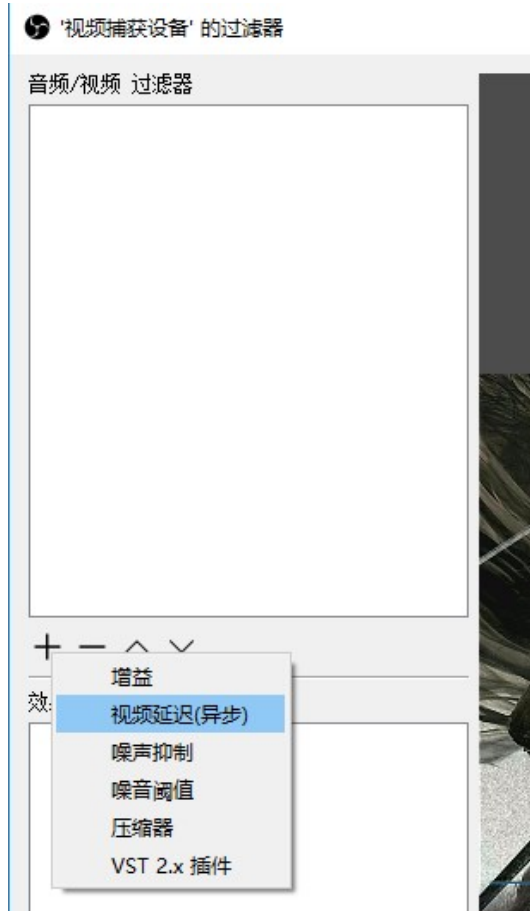
2, 双击打开 OBS Studio 软件, 点击“来源”窗口下的 “+”图标, 在出来的画面里点击 “视频捕获设”。 在“设备”旁的下拉框里选择 “FHD Capture”, 在”音频输出模式”旁下拉框里选择”输出桌面音频(WaveOut)”, “音频设备”旁的下拉框里选择”数字音频接口(2-FHD Capture)”, 并点击”确定”。



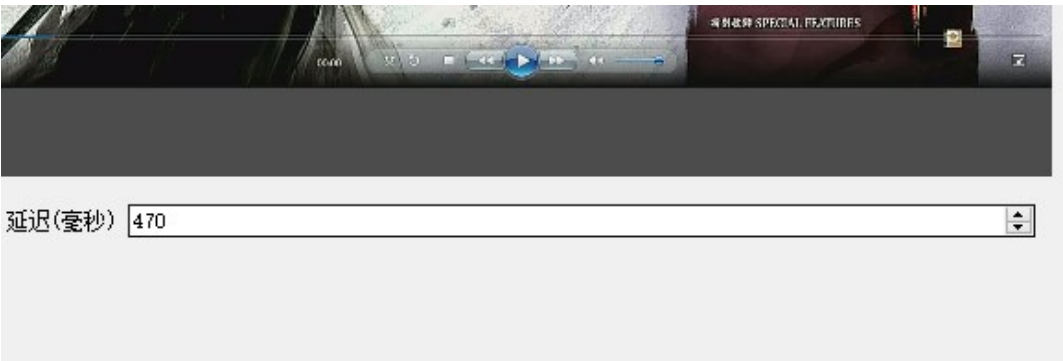
4, 为了使音视频同步, 设置视频延迟。  
-右击”视频捕获设备”, 选择”滤镜”。



-在弹出的视窗中，点击“+”后选择“视频延迟(异步)”。



-在新弹出的对话框里输入 470ms。（你需要根据情况自行调整数值大小，直至发现音视频同步为止）



5, 现在你就可以开始录制或者串流你的高清视频了。



如果你想与其它第三方应用软件配合使用 (比如 VLC, Media encoder, Protplayer...), 只要选择该软件的采集设备为 “FHD Capture” 即可。

产品规格参数:

接口连接

界 面	PCI Express
视频输入	HDMI
音频输入	HDMI
视频输出	HDMI
音频输出	HDMI

硬件规格

尺寸	105*90*21 毫米
----	--------------

<b>重量</b>	50 克
-----------	------

## 包装内容

<b>设备</b>	ezcap294 PCI-e 高清视频采集卡
<b>其它</b>	驱动光盘，使用指南

## 规格参数

<b>系统要求</b>	Windows 7,8,10。台式机: Intel Core i5-3400 + NVIDIA GT630, 笔记本: Intel Core i7-U 2.0 GHz + NVIDIA GT735 , 显卡兼容于 DirectX 10, 声卡 , 4GB RAM
<b>支持分辨率</b>	720 x 480 (60p), 720 x 576 (50p), 1280 x 720p (50p), 1280 x 720p(60p), 1920 x 1080 (50i), 1920 x 1080 (60i), 1920 x 1080 (24p), 1920 x 1080 (25p), 1920 x 1080 (30p), 1920 x 1080 (50p), 1920 x 1080 (60p)  HDMI 输出: 1920 x 1080 (60p)
<b>支持第三方软件</b>	OBS Studio; Windows Media Encoder; Adobe Flash Media Live ; Real Producer Plus ; VLC ; Wirecast;; vMix(Windows); Potplayer and etc.
<b>采集质量</b>	最高 1080P 60 帧