
ezcap

CAM LINK PRO

Manual



Model: ezcap335

Ver:M335220720

Overview

Thanks for purchasing **ezcap335 CAM LINK PRO** 4 channel capture card. Please read this manual before use and keep it in a safe place for future reference. You can use this device: Capture and stream four channel HDMI signal in 4K or Full HD such as Camcorder, DSLR, action camera, mobile devices and etc.

In the Box

ezcap335 CAM LINK PRO x1, Manual x1

Product Overview and Connections



1. HDMI 1/2/3/4: HDMI input port, connect to camcorder, DSLR, action camera or mobile devices with HDMI cable.
2. PCIe: Connect to PCIe x4 slot of your computer.

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3. SATA Power Port: Connect the computer SATA power connector

Hardware

Before installing ezcap CAM LINK PRO capture card, make sure your computer has a free PCIe x4 slot. and a power connector that supports the SATA interface.

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, connect the SATA power connector. 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 four device names **ezcap CAM LINK PRO CH1/CH2/CH3/CH4** on Device Manager, which means ezcap CAM LINK PRO is ready to work.

Camera Tips

The tips will ensure the best experience and image quality when using a camera with ezcap CAM LINK PRO. These are general tips and may not apply directly to the camera you are using.

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- 1, **Disable AUTO SHUTOFF:** Most cameras will automatically turn off to prevent battery drain. For video calls, the camera needs to stay on indefinitely. Automatic power shutoff settings are most often found in the power settings of the camera.
 - 2, **Clean HDMI OUTPUT:** Cameras output graphical user interface elements such as battery levels and resolution settings. This can be disabled by going into HDMI menu of camera and disabling HDMI info display, or by pressing the info button on your camera multiple times.
 - 3, **Use an AC ADAPTER:** Most cameras cannot operate and charge at the same time. An AC adapter or dummy battery must be used to trick the camera into thinking it is running on battery power indefinitely.
 - 4, **Set to MOVIE MODE:** Look for the Movie Mode option, typically indicated by a film camera icon on a camera's mode dial.

Software

ezcap CAM LINK 4 channel capture card can be used with most capture and streaming software such as OBS, vMix, VLC, XSplit and etc. For professional live streaming or recording, we suggest use OBS.

Please go to download: <https://obsproject.com/> , then install it on your computer.

Note: ezcap CAM LINK 4 channel capture card can also be used with Mac Pro, just download the OBS Mac version, and the operation is similar to the following instructions under Windows.

Start Work

Select Device

Double-click the OBS Studio icon on the desktop.

Click icon + under **Sources** window, and select **Video Capture Device**. Click **OK** in the new pop-up window. Please click **Device** and select **ezcap CAM LINK PRO CH1**. You can change the scene name and video capture device name.

Video Setting

You will see the video from **HDMI 1** port of ezcap CAM LINK PRO appear in the preview window. If not, and you see **Check Resolutions Settings** on the window, you need 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 that same or smaller as the resolution of your video source. Because the default video output resolution of device is 3840 x 2160, and software will not display video if resolution of video source is smaller than 3840 x 2160, such as 1920 x 1080. Now you need to set resolution to 1920 x 1080 or smaller resolution, then you will see the video.

You can add another three channel video with similar setting above – ezcap CAM LINK PRO CH2/3/4.

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 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 CAM LINK PRO CH1)**, you will hear the sound now.

Of course, you can also set the audio according to your actual application, and set a certain length of time to achieve audio and video synchronization, such as 300ms.

You can also set audio for another three channel devices.

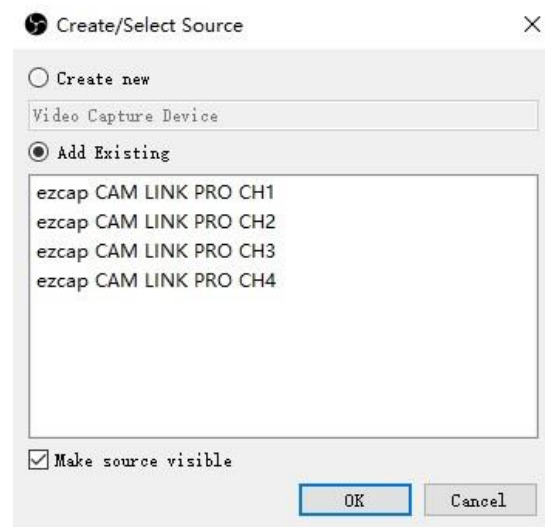
Multi-scene switch

A powerful video mixer engineered for multi cameras production, ezcap CAM LINK PRO equips you to capture four HDMI signals with ultimate ease and flexibility.

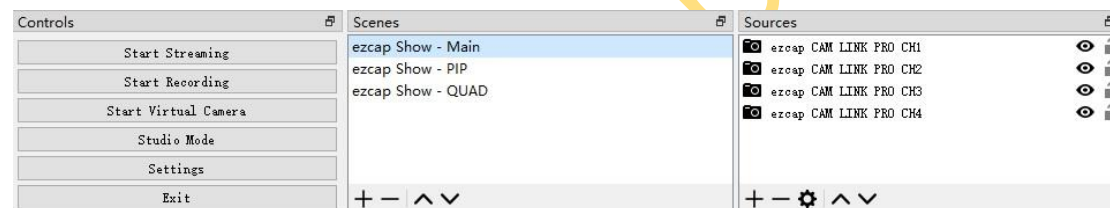
Add different scenes according to your actual video production needs on OBS. In each different scene, each HDMI video can be reused in different video combination modes.

You just need to tick **Add Existing** when adding the same device in different scenes and then select the desired camera video. Each video can be adjusted to the display combination you need in this scene, such as Picture in Picture, Side by Side, Triple,

Quad.



You can switch the different picture combination between the different scene right now.



Recording

Click **Settings** in the low right corner of OBS 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.

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 conner of Settings panel, then simply click **Start Recording** in the low right conner of OBS 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 conner of OBS 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 x4

Video Audio Input: HDMI 1.4 x 4

Supported Resolution: Up to 2160p30, 1440p60, 1080p120, 720p120

Video Format: YUY2, NV12, RGB

Dimensions: 196(L) x 121(W) x 22(H) mm

Weight: 206g

System Requirements

Windows 10 (64-bit)

PCIe x4/x8/x16 slot

6th generation Intel Core i7 CPU (i7-6XXX) / AMD Ryzen 7 (or better)

NVIDIA GeForce GTX 10xx (or better)

Mac: Mac Pro, Mac OS X High Sierra 10.15 and above, PCIe x4 slot.

ezcap

CAM LINK PRO

四路超清采集卡

说明书



产品型号: ezcap335

概览

感谢您购买 **ezcap335 CAM LINK PRO 四路超清采集卡**。使用前请阅读本手册并将其保存在安全的地方以备日后参考。您可以使用此设备：以 4K 或全高清视频采集或直播四路 HDMI 信号，比如摄像机，单反相机，运动相机，移动设备或其它视频设备。

包装内容

ezcap335 CAM LINK PRO 四路超清采集卡 x1, 说明书 x1

产品概览与连接



1. HDMI 1/2/3/4: HDMI 输入接口，用 HDMI 线连接到摄像机，单反相机或别的 HDMI 视频源设备。

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2. PCIe: 插入到电脑的 PCIe x4 插槽。
 3. SATA 电源接口: 连接电脑 SATA 电源接头。

硬件

在安装 ezcap335 CAM LINK PRO 四路超清采集卡之前, 请确保您的计算机具有可用的 PCIe x4 插槽, 以及支持 SATA 接口的电源接头。

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, 连接上 SATA 电源接头, 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 ezcap CAM LINK PRO 四路超清采集卡, 你会在设备管理器看到四个设备名称 **ezcap CAM LINK PRO CH1/2/3/4**, 则表示设备已经可以工作了。

相机提示

这些提示将确保相机和 ezcap335 CAM LINK PRO 四路超清采集卡一起使用时获得最佳体验和图像质量。这些是一般提示, 可能并不直接适用于您正在使用的相机。

- 1、**禁用自动关机**: 大多数相机会自动关闭以防止电池耗尽。对于视频通话, 摄像头需要无限期地保持开启状态。自动电源关闭设置最常出现在相机的电源设置中。
- 2、**禁用 HDMI 信息显示**: 相机输出图形用户界面元素, 例如电池电量和分辨率设置。这可以通过进入相机的 HDMI 菜单并禁用 HDMI 信息显示, 或多次按下相机上的信息按钮来禁用。
- 3、**使用交流适配器**: 大多数相机不能同时操作和充电。必须使用交流适配器或假电池来诱使

相机认为它无限期地运行或电池供电。

4, **设置为电影模式**：寻找电影模式选项，通常由相机模式拨盘上的胶片相机图标指示。

软件

ezcap CAM LINK PRO 四路超清采集卡可与 OBS、vMix、VLC、XSplit 等大多数采集直播软件配合使用。对于免费的专业直播或录制，我们建议使用 OBS。

请登录链接下载 OBS: <https://obsproject.com/>，并在您的电脑安装好。

注：ezcap CAM LINK PRO 四路超清采集卡也可与 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。

开始使用

设备选择

双击桌面上的 OBS Studio 图标以运行 OBS。

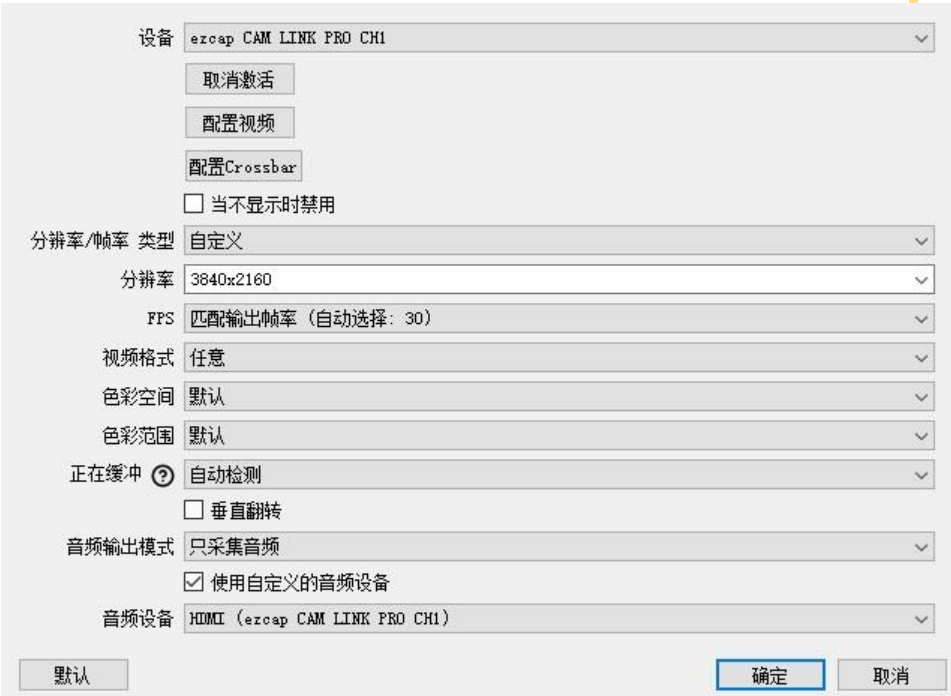
单击 OBS 面板左下角**场景**区域下方的图标+，然后在弹出的窗口中根据需要输入场景名称，单击**确定**。单击 OBS 面板左下角**来源**区域下方的图标+，然后选择**视频采集设备**。在弹出的窗口中单击**确定**，在这个窗口你也可以为设备改写新的名称。点击确定之后，在弹出的窗口中单击**设备**旁边的下拉框，然后选择 **ezcap CAM LINK PRO CH1**。

视频设置

这些设置完成后，应该能在软件捕获窗口中看到来自于 **HDMI 1** 接口的视频画面。如果不能，

并且在窗口上看到 **Check Resolutions Settings**，则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，选择一种与你的视频源分辨率相同或更小的分辨率。因为软件的默认视频输出分辨率为 3840 x 2160，并且如果视频源的分辨率小于 3840 x 2160（例如 1920 x 1080），则软件将不会显示视频。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。

你可以按照上述类似的设置添加另外三路视频设备：**ezcap CAM LINK PRO CH2/3/4**。



设备: ezcap CAM LINK PRO CH1

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 CAM LINK PRO CH1)

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 CAM LINK PRO CH1)**，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。

当然你还可以根据实际应用设置音频，并设置一定的时间长度来实现音视频同步，比如 300ms。

如果需要，你也可以为其它三路设备设置音频。

多场景切换

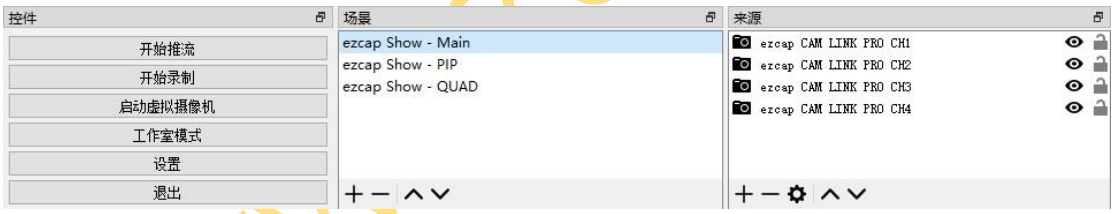
ezcap CAM LINK PRO 是一款功能强大的视频混合器，专为多机位制作而设计，让您可以轻松灵活地捕捉到四个 HDMI 信号。

在 OBS 上根据您的实际视频制作需求添加不同的场景。在每个不同的场景中，每个 HDMI 视频都可以在不同的视频组合模式下重复使用。在不同场景中添加相同设备时，只需勾选**添加现**

有，然后选择所需的机位视频。 每个视频都可以调整为您在此场景中需要的显示组合，例如画中画、并排、三画面组合、四画面组合。



现在你可以在不同的场景之间切换不同的视频画面组合了。



录制

单击 OBS 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。

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

注: 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 Gen 2 x4

视频音频输入: HDMI 1.4 x 4

支持分辨率: 最高可达 2160p30, 1440p60, 1080p120, 720p120

视频格式: YUY2, NV12, RGB

产品尺寸: 196(长) x 121(宽) x 22(厚) 毫米

产品净重：206 克

系统配置

Windows 10 (64 位)

PCIe x4/x8/x16 插槽

第六代 Intel Core i7 CPU (i7-6XXX) / AMD Ryzen 7 (或更高型号)

NVIDIA GeForce GTX 10xx (或更高型号)

Mac: Mac Pro, Mac OS X High Sierra 10.15 或更高, PCIe x4 插槽。