



# USB Camera 通用手册

## 连接 PC

1. 安装摄像头软件。下载 [amcap 软件](#) 并安装。
2. 将摄像头连到到电脑。打开 cmcap 软件。可以看到有图像输出

## 连接树莓派

1. 安装树莓派镜像，一般安装 Raspbian。这里我们使用的是 raspbian 系统
2. USB 摄像头连到树莓派做视频监控，一般有两种方法，一种是 motion，另一种是 mjpg\_streamer。相对于 motion 来说，mjpg\_streamer 更流畅，不会出现经常卡顿现象
3. 插上 USB 摄像头。查看摄像头是否被识别到：

### ls /dev

4. 如果查看到有 Video0 设备，说明摄像头已经被识别到了。如果没有识别到 Video0 设备，需要插拔检查一下 USB 线有没有插紧

5. 安装函数库：

```
sudo apt-get install libjpeg8-dev
```

```
sudo apt-get install libv4l-dev
```

6. 将提供的软件复制到树莓派中并解压到用户主目录下

```
tar zxvf mjpeg-streamer-master.tar
```

7. 进入目录

```
cd mjpg-streamer-master/mjpg-streamer-experimental/
```

```
pi@raspberrypi:~$ cd mjpg-streamer-master/mjpg-streamer-experimental/
pi@raspberrypi:~/mjpg-streamer-master/mjpg-streamer-experimental$ ls
build          input_uvc.so          output_file.so      start.sh
make           LICENSE              output_http.so     TODO
MakeLists.txt  makedeb.sh          output_rtsp.so     utils.c
Dockerfile     Makefile             output_udp.so      utils.h
docker-start.sh mjpg_streamer        plugins            www
input_file.so  mjpg_streamer.c     postinstall.sh
input_http.so  mjpg_streamer.h     README.md
input_raspicam.so mjpg_streamer@.service scripts
```

8. 运行指令

```
./mjpg_streamer -i "./input_uvc.so -r 800x600" -o "output_http.so -w ./www"
```

```

pi@raspberrypi:~/mjpg-streamer-master/mjpg-streamer-experimental $ ./mjpg_streamer -i "/input_uvc.so -r 800x600" -o "/output_http.so -w ./www"
MJPEG Streamer Version.: 2.0
i: Using V4L2 device.: /dev/video0
i: Desired Resolution: 800 x 600
i: Frames Per Second.: -1
i: Format.....: JPEG
i: TV-Norm.....: DEFAULT
i: The specified resolution is unavailable, using: width 640 height 480 instead
UVCIOC_CTRL_ADD - Error at Pan (relative): Inappropriate ioctl for device (25)
UVCIOC_CTRL_ADD - Error at Tilt (relative): Inappropriate ioctl for device (25)
UVCIOC_CTRL_ADD - Error at Pan Reset: Inappropriate ioctl for device (25)
UVCIOC_CTRL_ADD - Error at Tilt Reset: Inappropriate ioctl for device (25)
UVCIOC_CTRL_ADD - Error at Pan/tilt Reset: Inappropriate ioctl for device (25)
UVCIOC_CTRL_ADD - Error at Focus (absolute): Inappropriate ioctl for device (25)
UVCIOC_CTRL_MAP - Error at Pan (relative): Inappropriate ioctl for device (25)
UVCIOC_CTRL_MAP - Error at Tilt (relative): Inappropriate ioctl for device (25)
UVCIOC_CTRL_MAP - Error at Pan Reset: Inappropriate ioctl for device (25)
UVCIOC_CTRL_MAP - Error at Tilt Reset: Inappropriate ioctl for device (25)
UVCIOC_CTRL_MAP - Error at Pan/tilt Reset: Inappropriate ioctl for device (25)
UVCIOC_CTRL_MAP - Error at LED1 Mode: Inappropriate ioctl for device (25)
UVCIOC_CTRL_MAP - Error at LED1 Frequency: Inappropriate ioctl for device (25)
UVCIOC_CTRL_MAP - Error at Disable video processing: Inappropriate ioctl for device (25)
UVCIOC_CTRL_MAP - Error at Raw bits per pixel: Inappropriate ioctl for device (25)
o: www-folder-path.....: ./www/
o: HTTP TCP port.....: 8080
o: HTTP Listen Address.: (null)
o: username:password...: disabled
o: commands.....: enabled
  
```

9. 打开浏览器输入树莓派 IP

例如：192.168.1.63 : 8080

将 192.168.1.63 改成自己树莓派的 IP 地址。既可以看到摄像头拍摄的视频

