Webcams & Devices

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Android

MyBackup - to backup your files like just before an upgrade!

- tethering or how to use your android as an internet modem
- How to enter system recovery on HTC Hero

Philips Webcam

vcnc

Technical specifications		
Optical		
PCVC740K	ToUcam Pro	
Sensor	CCD	
Pixels	640 (H) x 480 (V)	
Still image resolution	1280 (H) x 960 (V)	
Illumination	< 1 lux	
Integrated lens	F2.0	
Resolution/performance		
Output resolution	Pixels (H x V)	Frame rate in frames/sec [fps]
VGA	640 x 480	Up to 30
CIF	352 x 288	Up to 30
SIF	320 x 240	Up to 60
QCIF	176 x 144	Up to 60
QSIF	160 x 120	Up to 60
Data format	I420, IYUV	

Install Dymo Labelwriter in openSUSE

To install the **Dymo Labelwriter 450** (and probably others as well) in **openSUSE 13.2** (and probably others as well) do the following:

```
#zypper in cups-devel
```

Download the drivers from the dymo site from here

Unpack to a directory, in my case dymo-cups-drivers-1.4.0.5/ and open a terminal in that dir. Then:

```
#./configure
#make
```

Then goto http://localhost:631 and you can add the printer and configure it as normal.

Have fun!

Detect webcam properties

```
# for d in /dev/video* ; do echo $d ; v4l2-ctl --device=$d -D --list-formats  ; echo '================'; done
```

```
# v4l-info /dev/video0
```

Logitech quickcam

```
pvdm@amd64:zm > v4l-info /dev/video0

### v4l2 device info [/dev/video0] ###
general info
    VIDIOC_QUERYCAP
        driver                  : "pwc"
        card                    : "Logitech QuickCam Zoom"
        bus_info                : "usb-0000:00:10.1-2.2"
        version                 : 4.4.87
        capabilities            : 0x85200001 [VIDEO_CAPTURE,?,READWRITE,STREAMING,(null)]

standards

inputs
    VIDIOC_ENUMINPUT(0)
        index                   : 0
        name                    : "Camera"
        type                    : CAMERA
        audioset                : 0
        tuner                   : 0
        std                     : 0x0 []
        status                  : 0x0 []

video capture
    VIDIOC_ENUM_FMT(0,VIDEO_CAPTURE)
        index                   : 0
        type                    : VIDEO_CAPTURE
        flags                   : 1
        description             : "Raw Philips Webcam Type (New)"
        pixelformat             : 0x32435750 [PWC2]
    VIDIOC_ENUM_FMT(1,VIDEO_CAPTURE)
        index                   : 1
        type                    : VIDEO_CAPTURE
        flags                   : 0
        description             : "Planar YUV 4:2:0"
```

```
        pixelformat             : 0x32315559 [YU12]
    VIDIOC_G_FMT(VIDEO_CAPTURE)
        type                    : VIDEO_CAPTURE
        fmt.pix.width           : 160
        fmt.pix.height          : 120
        fmt.pix.pixelformat     : 0x32315559 [YU12]
        fmt.pix.field           : NONE
        fmt.pix.bytesperline    : 160
        fmt.pix.sizeimage       : 28800
        fmt.pix.colorspace      : SRGB
        fmt.pix.priv            : 4276996862
```

Zoneminder

PAL M, YUV420, 24bit color, 320x240

Gspca

```
pvdm@amd64:zm > v4l-info /dev/video2

### v4l2 device info [/dev/video2] ###
general info
    VIDIOC_QUERYCAP
        driver                  : "pac207"
        card                    : "CIF Single Chip     "
        bus_info                : "usb-0000:00:10.1-2.4"
        version                 : 4.4.87
        capabilities            : 0x85200001 [VIDEO_CAPTURE,?,READWRITE,STREAMING,(null)]

standards

inputs
    VIDIOC_ENUMINPUT(0)
        index                   : 0
        name                    : "pac207"
        type                    : CAMERA
        audioset                : 0
        tuner                   : 0
        std                     : 0x0 []
        status                  : 0x0 []

video capture
    VIDIOC_ENUM_FMT(0,VIDEO_CAPTURE)
        index                   : 0
        type                    : VIDEO_CAPTURE
        flags                   : 1
        description             : "GSPCA PAC207"
        pixelformat             : 0x37303250 [P207]
    VIDIOC_G_FMT(VIDEO_CAPTURE)
        type                    : VIDEO_CAPTURE
        fmt.pix.width           : 352
        fmt.pix.height          : 288
        fmt.pix.pixelformat     : 0x37303250 [P207]
```

```
        fmt.pix.field           : NONE
        fmt.pix.bytesperline    : 352
        fmt.pix.sizeimage       : 101952
        fmt.pix.colorspace      : SRGB
        fmt.pix.priv            : 4276996862
```

Webcams

- Philips Webcam
- Logitech quickcam
- creative cylinder webcam
- p2pwificam
- HC-608
- gspca

Creative cylinder webcam

```
===============
/dev/video1
Driver Info (not using libv4l2):
        Driver name   : gspca_zc3xx
        Card type     : USB Camera (041e:401f)
        Bus info      : usb-0000:00:10.1-2.1
        Driver version: 4.4.87
        Capabilities  : 0x85200001
                Video Capture
                Read/Write
                Streaming
                Extended Pix Format
                Device Capabilities
        Device Caps   : 0x05200001
                Video Capture
                Read/Write
                Streaming
                Extended Pix Format
ioctl: VIDIOC_ENUM_FMT
        Index       : 0
        Type        : Video Capture
        Pixel Format: 'JPEG' (compressed)
        Name        : JFIF JPEG

===============

Zoneminder:

PAL,auto, 24bit color, 320x240
```

P2pwificam

Dit is de 1e webcam

Oftewel ICAM-608 IHOMECAM

MAC: 00:ED:AC:4F:BF:B9

http://192.168.1.30:8888/index.htm

http://192.168.1.30:8888/jpeg.html

http://192.168.1.30:8888/videostream.cgi

http://192.168.1.30:8888/videostream.cgi?user=admin&pwd=

Zoneminder:

HTTP, simple, IP, port, Remote Host Path:/videostream.cgi?user=admin&pwd= , 640x360

HTTP, Regexp, 192.168.1.30, 8888, /videostream.cgi?user=admin&pwd=admin, 24 bit color, 640x360

camera1.conf

```
cat camera1.conf
#PVDM


camera_id = icam608
lext_left CAMERA1
width 1280
height 720
netcam_url http://192.168.1.30:8888/videostream.cgi?user=admin&pwd=
netcam_keepalive on
target_dir /data/motion/
picture_filename CAM1-%q
```

Usb wifi dongles

Edup: (steekt iets uit)

```
Chipset:RTL8192CU
Wireless Protocol:802.11a/g,802.11n
Transmission rate:300mbps
Interface Type:USB2.0
EDUP EP-N1557 300Mbps mini 2.4GHz wifi adapter support windows and mac iOS 10.6~10.12

Note:

Please install driver successfully before plug wireless adapter into your computer

Please download the driver file here:http://www.szedup.com/support/driver-download/ep-n1557-driver/,if your desktop computer or laptop doesn't have CD rom.

Specifications:

Chipset RTL8192CU

Standard IEEE802.11 a/b/g/n

USB2.0

Built-in 1dBi antennas

Frequency 2.4GHz

Transmission speed 2.4G up to 300Mbps

Support  soft AP

Operation system windows XP / Vista / 7 / 8 / 8.1 / 10 ,MAC OS X 10.12.X /10.11.X / 10.10.X / 10.9.X / 10.8.X /10.7.X/10.6.X/10.5.X/10.4.X

Package content:
```

1*300Mbps wireless adapter

1*Driver CD

Tethering or how to use your android as an internet modem

Did you know that you can use your android mobile phone as an internet modem?

This can be handy when you are in a spot where there is no internet connectivity through wifi, for instance in a hotel.

Just follow these simple steps:

1. Install Proxoid from the marketplace
2. On your android go to Menu - Settings/Instellingen - Applications/Toepassingen - Development/Ontwikkeling and enable USB debugging/USB foutopsporing
3. As root on your pc, connect your phone with USB, type 'lsusb' and note the ID number for your phone. There will be two 4-digit numbers
4. Again as root, create a file called '/etc/udev/rules.d/11-android.rules' and fill it as follows:

```
SUBSYSTEM=='usb',
SYSFS{idVendor}=="0bb4",
SYSFS{idProduct}=="00ff9",
MODE="0666",OWNER="yourname"
```

replacing the 2 numbers and your username

Next:

1. Install the Android SDK. Preferably through your packagemanager, or download from 'developer.android.com/sdk'. Extract the tarball to your homedir
2. Reconnect your phone.
3. Then, goto the 'andriod-sdk-linux_86/tools' directory and run './adb forward tcp:8080 tcp:8080'.
4. Start Proxoid on your android
5. Configure your browser to access the internet through a proxy called 'localhost' on port 8080 and your done!

If you want to stop using your phone, simply turn off the proxy in your browser