

Linux Driver for Visual Presenter

User Manual

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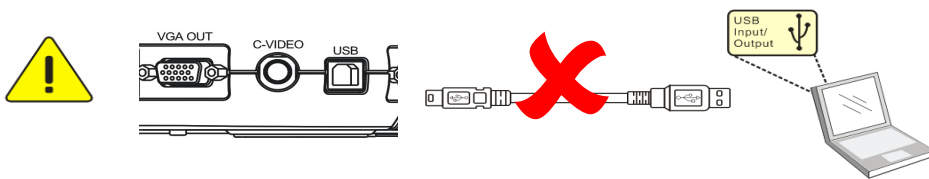
Date: 2009 July

1. System Requirements

- 1.1. CPU : 1GHz or better processor
- 1.2. RAM: 512 MB
- 1.3. Available Disk Space: 100 MB
- 1.4. USB 2.0 Host

2. Installation

- 2.1. Connect the power cord of the Visual Presenter and press the power button on the Visual Presenter.
- 2.2. Remove the USB cable from Computer and Visual Presenter.



- 2.3. Launch the Linux Terminal application.
- 2.4. Key in the following command:

```
sudo dpkg -i visualpresenterlv1_ubuntu8.10-1.0.0_i386.deb or  
sudo dpkg -i visualpresenterlv1_ubuntu9.04-1.0.0_i386.deb
```

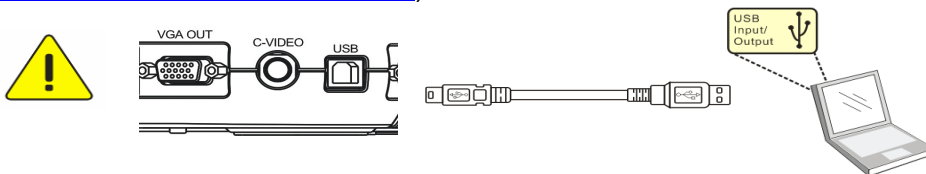
<Note> Please remove the current driver version before upgrading to a new driver. For more information, refer to [4.Troubleshooting 4.2 How do I remove the driver in this manual.](#)

- 2.5. Add user to video, audio group, key in the following command:

```
sudo gpasswd -a username video  
sudo gpasswd -a username audio
```

<Note> The username depends on which user you logged in

- 2.6. Once the USB driver installation was completed, please connect one end of the USB cable to the Visual Presenter and the other to the USB port on your computer ([refer to Visual Presenter Quick Start Guide 3. I/O Connection](#)).



- 2.7. Reboot the system now.

3. Camera Setting


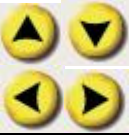
- 3.1. Launch the Linux Terminal application.
- 3.2. Key in the following command: vpcamerasetting



3.3. Basic :

Name	Function
AF	Automatically adjust focal length on an object.
Auto Tune	Automatically adjust the image to have the best brightness and focusing performance.
Brightness+/-	Manually adjust the brightness of the image.
Focus +/-	Manually adjust focal length on an object.
Lamp	Turn on / off the lamp.
Pan	switch a part of the live image
Rotate	Rotate the image by 0°/90°/180°/270°.
Zoom +/-	Increase or decrease the image size.

3.4. Advanced

Name	Function
	Enter/Activate functions.
	Move up, down, left or right to select the needed function.
Capture	Capture the image to the SD card (priority) or internal memory.
Freeze	Freeze the current image to temporarily stay on the screen. Press again to defreeze.
Menu	Activate the setting menu function/exit menu.
PBP	PBP (Picture by picture): Compare live images with captured image files.

Record	Record motion images. Press [Record] to record images to SD card (priority) or internal memory; press[Record]again to stop recording.
Slide Show	Show the photos or videos stored in the SD card (priority) or internal memory in slide mode.
Source	Switch between different sources of signals: 1. Live images (default) 2. SD card (priority) or internal memory 3. Computer

4. Basic Operation

4.1. Use in Gstreamer

4.1.1. Launch the Linux Terminal application.

4.1.2. Key in the following command: ***gstreamer-properties***

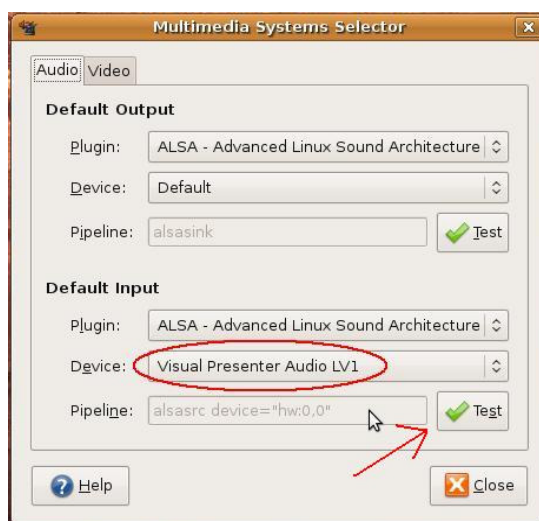
4.1.3. Playing Audio

1. Select the plugin [ALSA - Advanced Linux Sound Architecture]

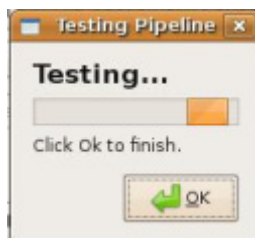
2. Select the desired device [Visual Presenter Audio LV1].

3. Press [Test] to allow the computer to play audio recorded in the Visual Presenter.

<Note> This function only works in product models that can record audio.



4. Press [OK] to close the dialog box.



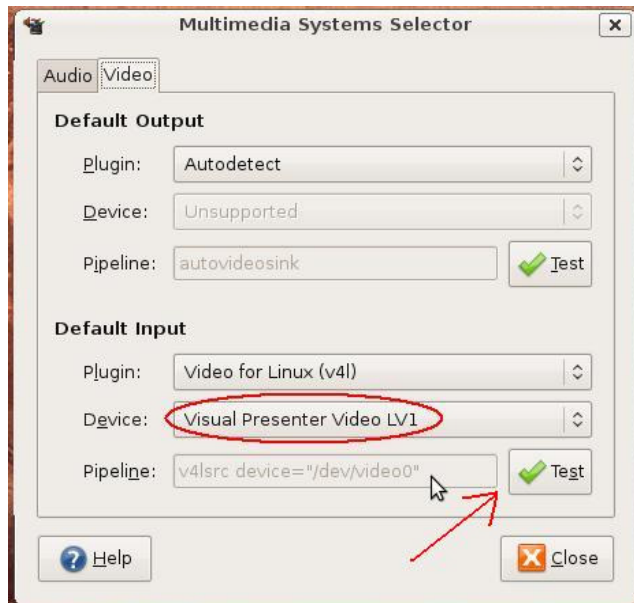
4.1.4. Playing Video

1. Select the plugin [Video for Linux (V4l)]

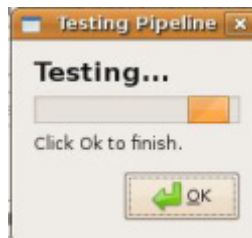
2. Select the desired device [Visual Presenter Video LV1].

3. Press [Test] to play video recorded in the Visual Presenter.

<Note> This function only works in product models that can record video.



4. Press [OK] to close the dialog box.



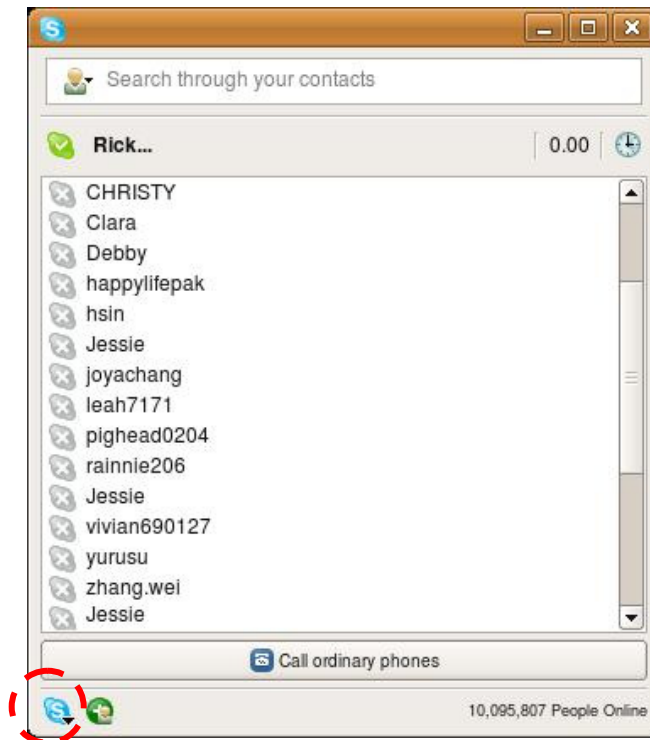
4.2. Use in Sound Recorder

- 4.2.1. Click Application → Sound&Video → Sound Recorder
- 4.2.2. For the "Record as:" option, select [Voice, Lossless(.wav type)].
- 4.2.3. Click [Record] to start recording.
- 4.2.4. Click [Stop] to stop recording.
- 4.2.5. Click [Play] to play recorded sounds.



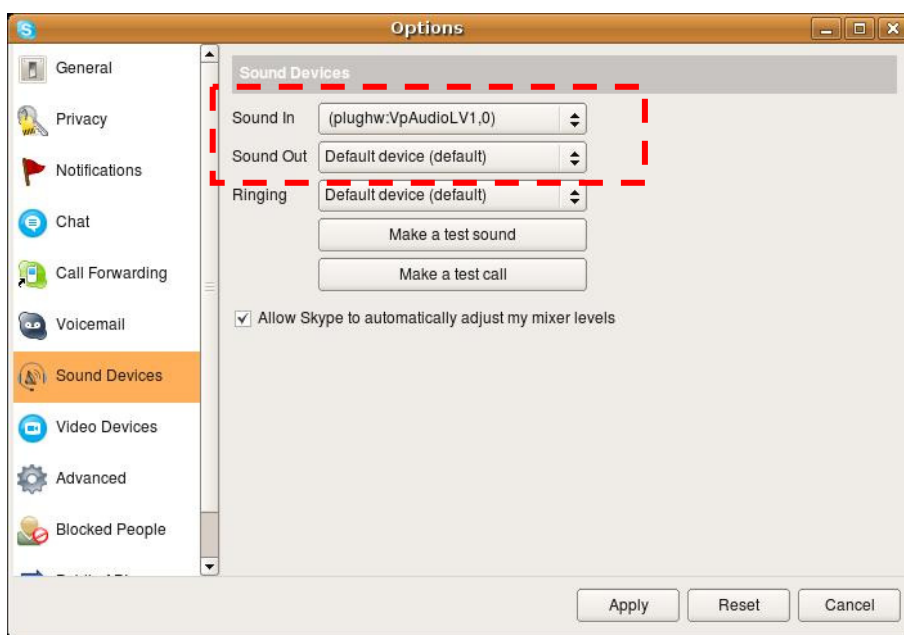
4.3. Use in Skype

- 4.3.1. Launch the Linux Terminal application.
- 4.3.2. Key in the following command: **skype**
- 4.3.3. **Setting the sound device**
 - 4.3.3.1. Click on the "S" symbol to launch the [Options] windows



4.3.3.2. For “Sound In,” select [(plughw:VpAudioLV1,0]

4.3.3.3. For “Sound Out,” select [Default device(default)] or pulse



4.3.4. Video device setting

4.3.4.1. Add XML code in the file ~/Skype/skype username/config.xml as follows: To open the file, key in the following command:

gedit ~/Skype/skype username/config.xml

<Video>

<AdvertPolicy>contacts</AdvertPolicy>

<AutoSend>1</AutoSend>

<CaptureHeight>1024</CaptureHeight>

<CaptureWidth>1280</CaptureWidth>

```

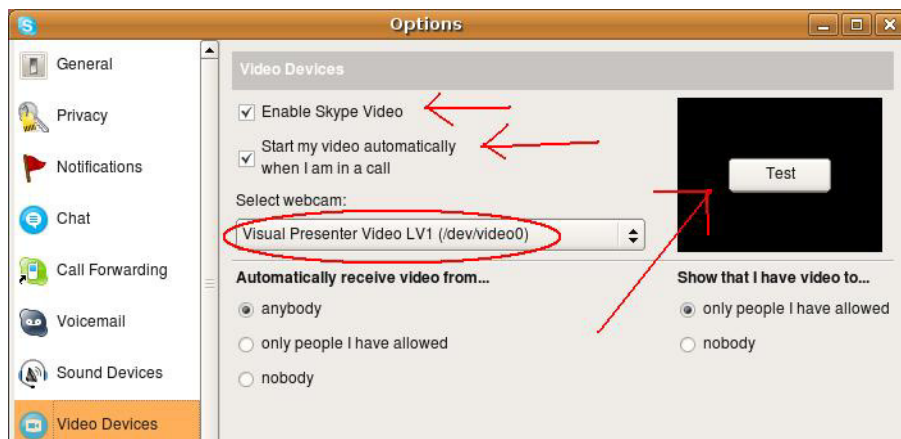
<Device>/dev/video0</Device>
<Fps>15</Fps>
<RecvPolicy>callpolicy</RecvPolicy>
</Video>

```

<Note > The values of <CaptureHeight> and <CaptureWidth> will automatically change to reflect the resolution setting of visual present. (Refer to the section about setting the DIP switch in the Visual Presenter User Manual for more detailed information).

4.3.4.2. Setting the video device

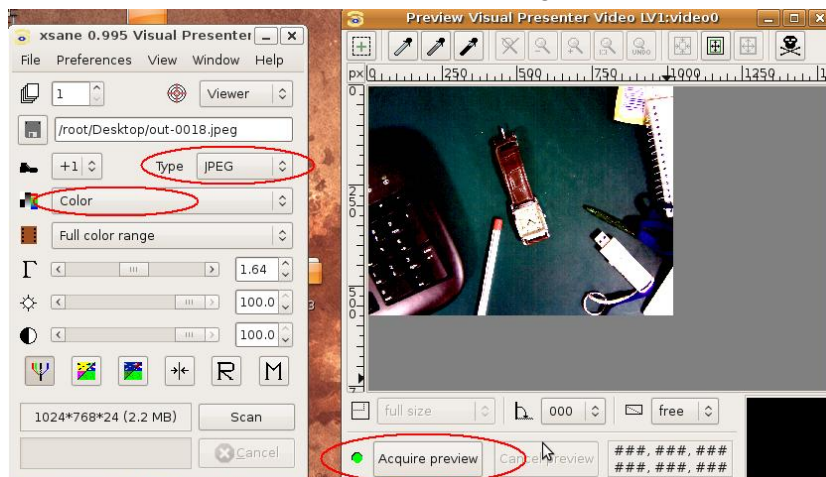
1. Under “Select webcam,” choose [Visual Presenter Video LV1]
2. Check the boxes labeled [Enable Skype Video] and [Start my video automatically when I am in a call.]
3. Press the [Test] button to show a live image from the visual presenter.



4.3.5. Once the settings are complete, the visual presenter is ready to be used to make a conference call.

4.4. Use in Xsane

- 4.4.1. Launch the Linux Terminal application.
- 4.4.2. Key in the following command: **Xsane**
- 4.4.3. Press [Continue at your own risk] to continue.
- 4.4.4. Select type [JPEG] and Gray [Color]
- 4.4.5. Press [Acquire preview] to capture a live image



5. Troubleshooting

5.1. Checking that driver installation is complete

5.1.1. Launch the Linux Terminal application

5.1.2. Key in the following: ***lsmod | grep visualpresenteraudio***. The following information will be displayed:

```
visualpresenteraudio    14080  0
snd_pcm                 83204  3 visualpresenteraudio,snd_hda_intel,snd_pcm_oss
snd                    63268  16 visualpresenteraudio,snd_hda_intel,snd_pcm_oss,
snd_mixer_oss,snd_pcm,snd_seq_oss,snd_rawmidi,snd_seq,snd_timer,snd_seq_device
usbcore                 148848  7 visualpresentervideo,visualpresenteraudio,usb_st
orage,libusual,ehci_hcd,uhci_hcd
```

5.1.3. Key in the following command: ***lsmod | grep visualpresentervideo***. The following information will be displayed:

```
visualpresentervideo    17036  0
videodev                41344  1 visualpresentervideo
usbcore                 148848  7 visualpresentervideo,visualpresenteraudio,usb_st
orage,libusual,ehci_hcd,uhci_hcd
```

5.2. Removing the driver

5.2.1. Launch the Linux Terminal application

5.2.2. Key in the following command:

```
sudo dpkg -r visualpresenterlv1
```

5.2.3. Key in the following command: ***sudo rmmod visualpresenteraudio***

5.2.4. Key in the following command: ***sudo rmmod visualpresentervideo***

5.2.5. Key in the following command: ***rm `find /lib/modules/ -name visualpresentervideo.ko`***

5.2.6. Key in the following command: ***rm `find /lib/modules/ -name visualpresenteraudio.ko`***

5.2.7. Key in the following command: ***rm /usr/local/bin/vpcamerasetting***