Elphel 353 QuickStart Guide

1. Notes

- The following guide was written for (K)Ubuntu OS

- The camera has a web-based interface and it should work in any OS (Firefox browser is recommended)

2. Connection

When the camera is properly connected to a PC the leds on the back will go solid yellow and blinking green.

a) Standard PoE Injector

Fig.1 Camera connection using a standard PoE Injector

b) Router/switch with PoE ports

Fig.2 Camera connection using a PoE Switch (just plug the camera directly to the switch)

c) 12V Power Module (ONLY FOR 12V CAMERAS)

Fig.3 Camera connection using a PoE Switch

3. Network

The default camera IP address is **192.168.0.9***

Login: root

Password: pass

     * Ensure that your PC or router/switch, the camera is connected to, has an IP address from the same subnetwork – that is **192.168.0.xxx** .

4. Camera Index Page Menu

http://192.168.0.9*

* It is recommended to use the **Firefox** browser.

Main Applications menu items:

- Camera Control Interface
- Disk Recorder
- Parameter Editor
- Terminal
- System Preferences
- File Browser / Text Editor

5. Help Tips

Open the Camera Control Interface (camvc).

Fig.4 Help

6. Getting the first images

1. In the Camera Control Interface (camvc): *"Shift+Click" on the button to save.*

Fig.5 Acquire an image from the Camera Control Interface

2. http://192.168.0.9:8081/bimg

7. Watch/record video stream over the network

There are several ways to watch/record video streams from the camera:

1. To watch the video stream from the Firefox browser (gecko-mediaplayer is required):

First click on an icon with a "screen" (the 3rd one from the left) and then change the display mode to "a guy on a bicycle":

Fig. 6 Turn on Live Video Stream

2. To watch the video stream with MPlayer or VLC open the **rtsp://192.168.0.9:554**. You can use either a player GUI or a command line. Here is an example command from Linux terminal window:

mplayer rtsp://192.168.0.9:554 -vo x11 -zoom

3. To record a stream use Mencoder, terminal window command:

mencoder rtsp://192.168.0.9:554 -ovc copy -fps <fps> -o filename.avi

where

    <fps>   - approximate value of the frame frequency (this parameter is mandatory);

    filename.avi - the name of an output file

8. FTP access

ftp://192.168.0.9

9. Command line access

a) **SSH**

In the terminal window: *ssh root@192.168.0.9*

b) **Telnet**

In the terminal window: *telnet 192.168.0.9*

c) **Phpshell**

Firefox address line: *http://192.168.0.9/phpshell.php*

10. Serial port (10369 board required)

Speed: 115200 8N1

RTS/CTS: None

XON/XOFF : None