

PulseIR User Manual for Linux OS

Quick Start User Manual for Linux OS



Installation

PulseIR Touch System Utility Installation

PulseIR system is a plug and play HID-USB Device which automatically manages device drivers, eliminating any manual installation or upgrading of the drivers.



Upon connection to a USB port, PulseIR system initializes. DO NOT touch the screen while the "new device found" message box displays – for approximately 3 seconds.

Following versions of Linux systems have been tested for compatibility:

Kernel 2.6.35 or later version/ GNOME 2.28 or later version

Redhat 6.0 or later version

Ubuntu 8.10 or later version

Debian 5.04 or later version

Fedora 12 or later version

JAVA 1.6 or higher version must be installed.

In addition, most Linux kernel that supports HID device will work properly.

Installation of PulseIR utility program

Default Operation

PulseIR system is a plug and play HID-USB Device which automatically manages device drivers, eliminating any manual installation or upgrading of the drivers.

Connect the PulseIR touch unit to a USB connector in Linux computer and type it in the terminal command mode as follows :

```
$ cat /proc/bus/input/device
```

If you can see the device information as shown in the red box on the following figure, the touch device is ready to use.

```

I : Bus=0003 Vendor=10f0 Product=5003 Version=0110
N: Name="RNDPLUS Co., LTD PULSEIR DT 42inch"
P: Phys=usb- 0000: 02: 00. 0- 1/i nput 0
S: Sysfs=/dev/pci 0000: 00/0000: 00: 11. 0/0000: 02: 00. 0/usb2/2- 1/2- 1: 1. 0/i nput /i n
put 5
U: Uni q=
H: Handl er s=mouse1 event 4
B: EV=1b
B: KEY=403 0 70003 0 0 0 0 0 0 0
B: ABS=7f 00 3f
B: MSC=10

```

Installation of Utility program


Copy a utility program for Linux OS, "pulseirConfig-linux-(version).tgz" from installation CD or download link to a directory. Then Install the program by following the steps below.

Step 1: Decompress PulseIR utility.

Decompress the compressed utility program by executing the Linux terminal command as follows :

\$ tar -xvzf pulseirConfig-linux-version.tgz (in the directory copied the utility program)

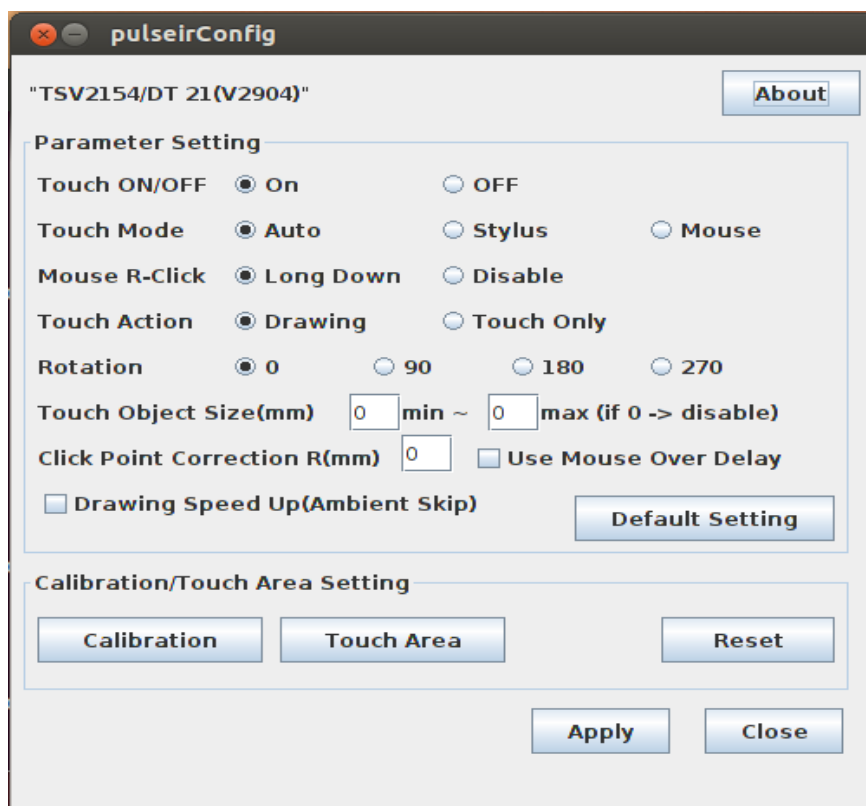
Step 2: Run PulseIR utility program

 Admin privilege is required to execute the terminal command to install PulseIR utility program.

Connect the touch device to a USB connector in Linux computer
Execute Linux terminal command to run PulseIR utility program

\$ pulseirConfig

Then, PulseIR utility program is displayed as shown in the below figure.



Using PulseIR Utility Program

Selecting "Apply" button will save new settings to the controller.

Selecting "Default" button will return controller settings to factory default values.

Touch On/Off

This function enables and disables the touch detection for special testing and set-up needs.

Touch Mode

Mode	Purpose
Auto	Automatic OS Detection for OS running(Windows, Linux, Mac)
Stylus	Supports <i>stylus</i> operation in Android OS/Multi-touch operation in Linux
Mouse	Single-Point Mouse mode

Mouse R-Click (Apply only in Mouse Mode)

Setting	Effect
Long Down	extended touch triggers the Mouse R-Click event
Disable	do not support Mouse R-Click event

Touch Action (Apply only in Mouse Mode)

Setting	Effect
Drawing	Touch and Drawing support
Touch Only	For simple touch detection only – No continuous tracing for drawing and scripting

Touch Rotation

For special mounting configuration relative to display orientation. If the touch screen is attached to the display in normal orientation, the rotation of the display is controlled by Windows "Display Setting" dialog box. Select a desired Orientation for display placement and the touch screen will automatically adjust.

Touch Object Size

This function controls the size of object to have the touch detected. The only object the size is between Min. and Max. is able to be detected. If both of Min. and Max. are set to "0", this feature is disabled.

Click Point Correction R

This function compensates the touch error which may be happened by inaccurate touch. The radius of touch point should be set to activate this feature.

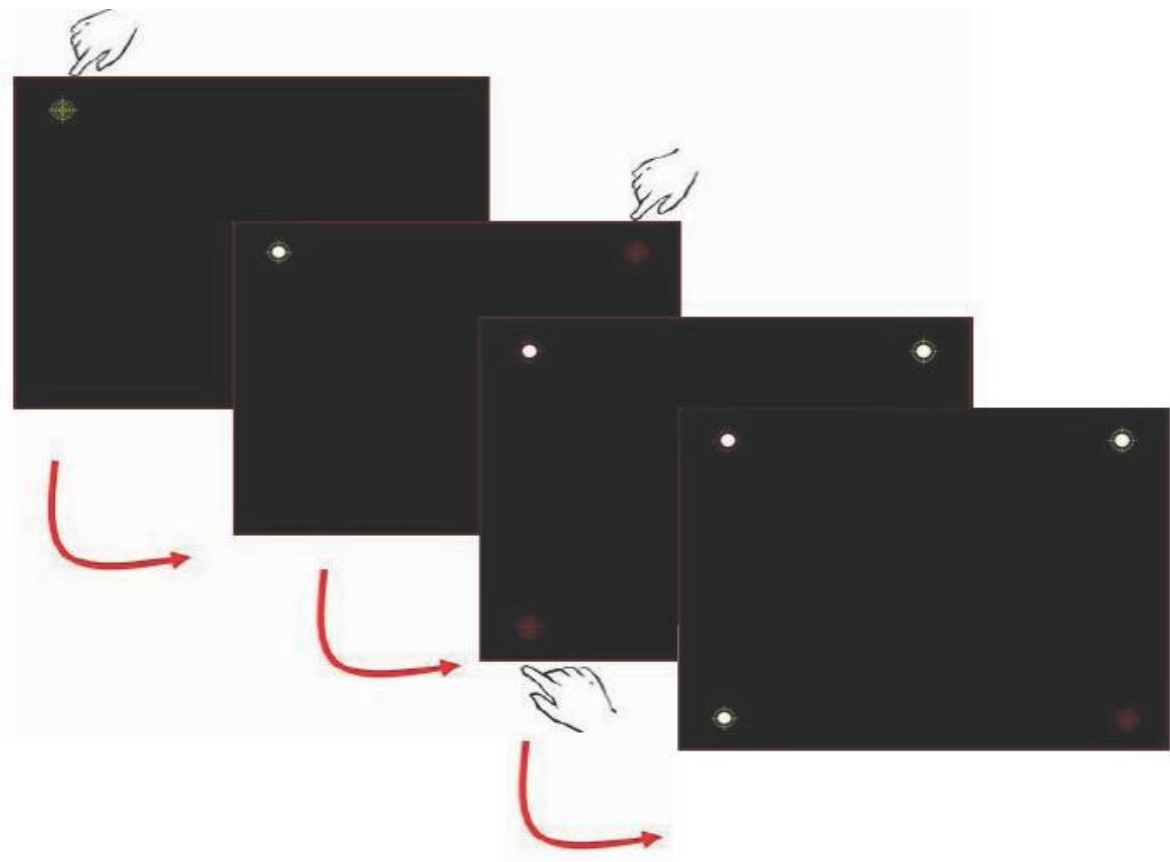
Use Mouse Over Delay

This function is supported in only Mouse touch mode. Check this to apply "Time Delay" when touching down a menu button.

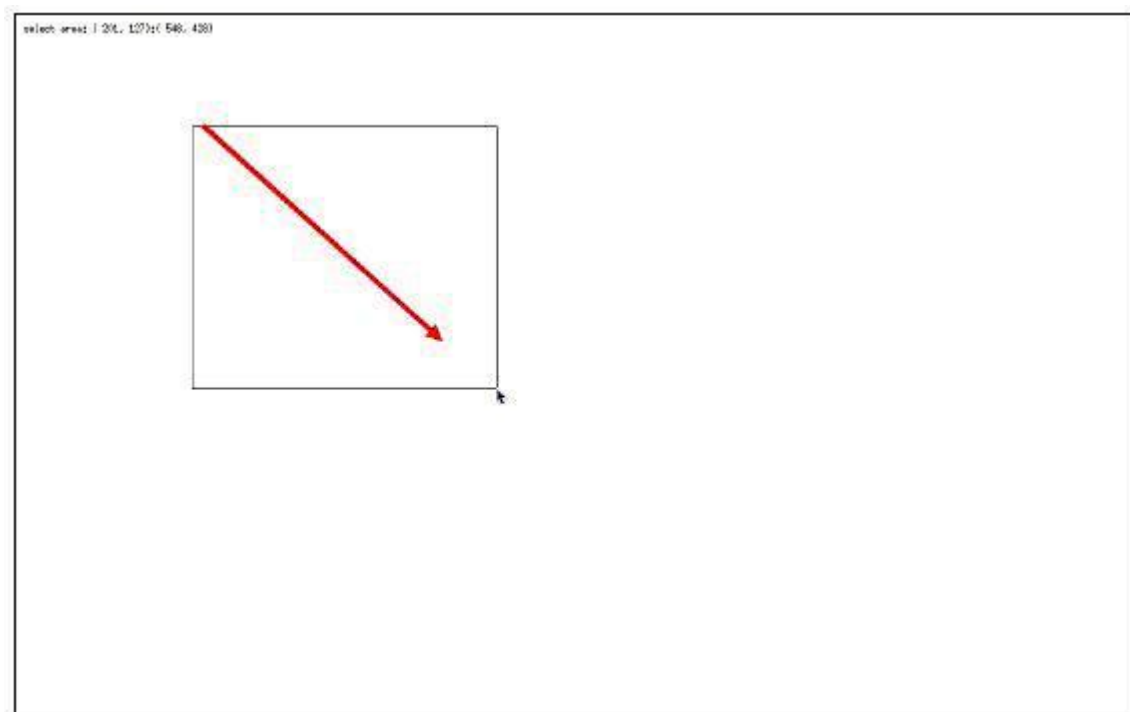
Drawing Speed Up(Ambient Skip)

This function increases the drawing speed by 1-1.5 times more than the normal speed. This function is recommended to use under the environment of no or weak ambient light.

Calibration button launches a program for manual calibration when an offset is required. To compensate for misalignment between the touch screen and the display, launch this program and touch the 4 points as they are presented.



Touch Area button launches a program for selecting touch-sensitive area. To limit touch detection to only a selected area, drag a box from top-left to bottom-right of the area on the touch screen. Touch will not be detected outside of this area.



Multi-Touch Operation

Run TUIO Interface Utility Program for Linux OS

Run TUIO multi-touch interface utility program to use the touch device for the multi-touch operation.
If you do not have PulseIR TUIO Interface utility for Linux OS, please download this program and Extract the “pulseirTuioServer-linux-(version #).tgz” tar file by using terminal command,



Admin privilege is required to execute the terminal command to run “pulseirTuioServer” program for the multi-touch operation.

```
$ tar -xvzf PulseIRTuioServer-linux-x.x.x.tgz
```

, and locate and execute \$ [PulseIRTuioServer](#) by using the terminal command.
(Warning: Connect the touch screen to the PC before launching this application.)

Usage: pulseirTuioServer [option] [host] [port]

[host] hostname or ip address. (default: 127.0.0.1)

[port] port number. (default: 3333)

[option]

-d : mouse report disable.

-h : print this message.