

Grove - Red LED User Manual

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Wiki: http://www.seeedstudio.com/wiki/Grove - LED

Bazaar: http://www.seeedstudio.com/depot/Grove-Red-LED-p-

1142.html



Document Revision History

Revision	Date	Author	Description
1.0	Sep 22, 2015	Jiankai.li	Create file



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Under the supervision of Seeed Technology Inc., this manual has been compiled and published which covered the latest product description and specification. The content of this manual is subject to change without notice.

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1. Introduction

Grove - LED is designed for the beginners of Arduino/Seeeduino to monitor controls from digital ports. It can be mounted to the surface of your box or desk easily and used as pilot lamp for power or signal. Its brightness can be adjust by potentiometer.



There are four products which can light different colors. They have the same work principle.



2. Features

- Grove compatible interface
- 3.3V/5V Compatible
- Adjustable LED orientation
- Adjustable LED brightness



3. Specification

Item	Description
LED Control Mode	Digital Pin of Arduino
Working Voltage	5V
Supply Mode	Grove Interface

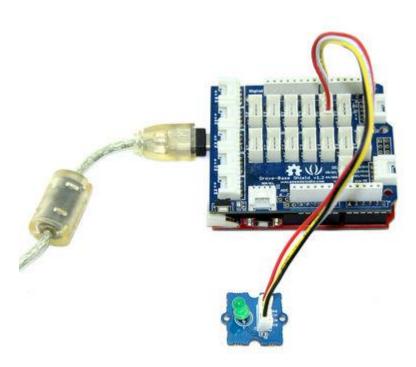


4. Usage

4.1 With Arduino

Here we show how to use Arduino to control the state of the LED.

- 1. Connect the LED to Base Shield's **digital port 2** with 4pin Grove Cable.Of course you can change to other valid digital ports if it's necessary and the definitions of the port should be changed too.
- 2. Plug it onto the Arduino/Seeeduino. Connect the board to PC using USB cable.



3. Copy the demo code to your sketch, then upload to Arduino or Seeeduino board. Please click here if you do not know how to upload.

You will see the LED blink every second.

* File Name : GroveLEDDemoCode.ino

* Author : Seeedteam * Version : V1.1 * Date : 18/2/2012

* Description : Demo code for Grove - LED

#define LED 2 //connect LED to digital pin2



4.2 With Raspberry Pi

Connect the **LED to Port D4** and power on the Raspberry Pi, using the Grove wire connector. This is a test to make led blinking. You can connect to GrovePi+ with it as the picture below.



```
# GrovePi LED Blink example
import time
from grovepi import *

# Connect the Grove LED to digital port D4
led = 4

pinMode(led, "OUTPUT")
time. sleep(1)

while True:
```



```
#Blink the LED
digitalWrite(led,1)  # Send HIGH to switch on LED
time.sleep(1)

digitalWrite(led,0)  # Send LOW to switch off LED
time.sleep(1)

except KeyboardInterrupt:  # Turn LED off before stopping
digitalWrite(led,0)
break
except IOError:  # Print "Error" if communication error encountered
print "Error"
```

Run The Program

• Find the path to the file(According to your own path)

cd GrovePi/Software/Python/

Run Program

sudo python grove_led_blink.py