



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





# Bright Pi – Bright White and IR Camera Light for Raspberry Pi

SKU: PIS-0027

The Bright Pi is a breakout/add on board for the Raspberry Pi which adds both visible bright white light & infrared illumination to the Raspberry Pi, for use with the Raspberry Pi camera module, the Pi NoIR camera module or for any other project which requires bright LEDs!

This is a self-assembly kit of parts which will require soldering.

When you purchased your Bright Pi v1.0 kit, you should have received an anti-static bag with some components in it which will require soldering together in order to get the Bright Pi up and running and connected to your Raspberry Pi (or other single board computer or I2C enabled microcontroller). Below we have put together some simple assembly instructions to get you up and running with the Bright Pi v1.0.

## Description

The Bright Pi is a breakout/add on board for the Raspberry Pi (can be used with other I2C devices too – Arduino etc.) which adds both visible bright white light and infrared illumination to the Raspberry Pi, for use with the **Raspberry Pi camera module**, the **Pi NoIR camera module** or for any other project which requires bright LEDs!

Bright Pi plugs directly into the I2C interface on the Raspberry Pi, and is completely controllable via the command line, using Python and lots of other programming languages as well. The brightness of the LEDs is fully controllable using the onboard LED driver chip.

Want to use colourful LEDs instead? Well there is certainly nothing stopping you. The Bright Pi will allow you to control any ~5v LEDs using the I2C interface on the Raspberry Pi, so you could substitute the provided LEDs with the colourful LEDs of your choice!

The Bright Pi has M2 mounting holes, just like on the camera module and Pi NoIR and can therefore be mounted directly to the camera module using the screws and spacers provided. It also has been verified to work great with the **camera mount kit from Pimoroni**, as seen in some of the pictures on this page.

The Bright Pi is the perfect accessory for any project which utilises either the **Raspberry Pi camera module** or the **Pi NoIR** but just needs a bit more light, in a small and lightweight package!

## Bright Pi Kit Contents

- 1 x Bright Pi PCB (with LED driver chip pre-assembled)
- 4 x bright white LEDs (high quality Cree C513A-WSN-CV0Y0151 LEDs)
- 8 x bright IR LEDs (high quality LITEON HSDL-4261 LEDs)
- 1 x right angle header
- 1 x 4 way header cable, 20cm length
- 3 x M2 12mm nylon bolts
- 12 x M2 nylon nuts (to use as spacers as well)
- 3 x stickers
- 1 x info card

Please note that this is a self assembly kit of parts which will require soldering. The **Pimoroni camera mount** shown in some of the photos is not included with the kit, but can be purchased separately **here**.

**Please note! The Raspberry Pi Camera and Pimoroni Camera mount kit are not included with the Bright Pi.**