

# IR

SKU:U002



## Description

IR is a pair of infrared photoelectric sensors from the M5Go Kit family. Contains 1x infrared emitter and 1x receiver.

IR remote control is widely used in consumer electronics, it can be used to operate devices such as a television set, DVD player, or other home appliance, from a short distance. Since this unit comes with emitter and receiver, you can practice not only on IR encode but also on IR decode.

## Product Features

- 1x infrared emitter
- 1x infrared receiver
- Distance range: < 5m
- Software Development Platform: Arduino, UIFlow(Blockly,Python)
- Two Lego-compatible holes

## Include

- 1x IR Unit
- 1x Grove Cable

## Specification

Resources	Parameter
Net weight	4g
Gross weight	17g
Product Size	32*24*8mm
Package Size	67*53*12mm

## EasyLoader



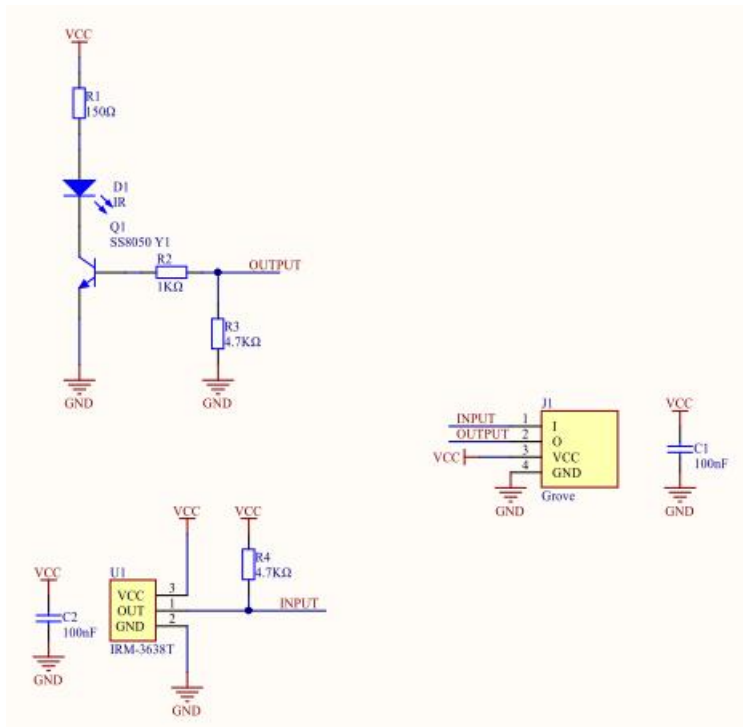
[download EasyLoader](#)

1.EasyLoader is a simple and fast program burner. Every product page in EasyLoader provides a product-related case program. It can be burned to the master through simple steps, and a series of function verification can be performed. .

- After downloading the software, double-click to run the application, connect the M5 device to the computer through the data cable, select the port parameters, click "Burn" to start burning. **For M5StickC burning, please Set the baud rate to 750000 or 115200**

- Currently EasyLoader is only suitable for Windows operating system, compatible with M5 system adopts ESP32 as the control core host. Before installing for M5Core, you need to install CP210X driver (you do not need to install with M5StickC as controller)[Click here to view the driver installation tutorial](#)

## Schematic



## PinMap

M5Core(GROVE B)	GPIO36	GPIO26	5V	GND
IR Unit	Receiver Pin	Transmitter Pin	5V	GND

## | Example

### 1. Arduino

To get the complete code, please click [here](#)

### 2. UIFlow

To get the complete code, please click [here](#)

The image shows the MIT App Inventor interface. On the left is a preview of a mobile app with a dark background. The app has a label that says "IR receiver:" and a larger label below it that says "Not detected". At the bottom of the app are three grey rectangular buttons. Below the app preview is the "Units" section, which includes an icon of an IR receiver and a plus sign. Below that is a configuration box for the "ir0" unit, with a "port" dropdown menu currently set to "B".

In the center is a vertical toolbar with various categories: Event, UI, Hardwares, Units, IR (highlighted in blue), Modules, Variables, Math, Loops, Logic, Graphic, Emoji, Timer, Functions, Text, and Lists.

On the right is the code editor, showing a sequence of three blue blocks:

- The first block is an "ir0" dropdown menu followed by the text "state".
- The second block is a "set ir0" dropdown menu followed by the text "on".
- The third block is a "set ir0" dropdown menu followed by the text "off".

Red arrows point from the "ir0" dropdown in the first block to the "ir0" dropdown in the second block, and from the "ir0" dropdown in the second block to the "ir0" dropdown in the third block. Another red arrow points from the "IR" category in the toolbar to the "ir0" dropdown in the first block.

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