Infrared Transmitter Module

The Infrared Transmitter Module consists of just a 5mm IR LED. It works together with any 38 kHz receiver and almost any device using regular IR remote control. It's compatible with popular electronics platforms like Arduino, Teensy, Raspberry Pi and ESP8266.

Operating Voltage	5V
Forward Current	30 ~ 60 mA
Power Consumption	90mW
Operating Temperature	-25°C to 80°C [-13°F to 176°F]
Dimensions	18.5mm x 15mm [0.728in x 0.591in]



Pinout and Connection to Arduino

Connect the Power line (middle) and ground (-) to +5 and GND respectively. Connect signal (S) to pin 3 on the Arduino UNO or pin 9 on the Arduino Mega. The pin number for the infrared transmitter is determined by the IRremote library, check the download section below for more info



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Arduino Example Sketch

The following Arduino sketch uses the <u>IRremote</u> library to serially send infra-red signals. The output pin is determined by the library and it depends on the board you are using, check the <u>IRremote</u> library documentation for supported boards. You'll need an IR receiver like to process the signal.

```
#include <IRremote.h>
IRsend irsend;
void setup()
{
   Serial.begin(9600);
}
void loop()
{
   for (int i = 0; i < 50; i++) {
      irsend.sendSony(0xa90, 12); // Sony TV power code
      delay(40);
   }
}</pre>
```