

How to use the light-controlled remote control module



Overview

Control an LED with the Remote Control | Arduino Project Hub
Receive the signal and control an LED. First of all you need to know the control codes of your.

Key Takeaways

A light-controlled remote control module allows you to wirelessly turn lights or devices on and off by pairing it with a remote and connecting it to your power source and load.

Components Needed

Remote control module (IR or RF type, e.g., VS1838B for IR or QA-R-011 for RF)
Light or LED to control
Power supply (Arduino 5V for IR modules or 12V for RF modules)
Microcontroller (optional for IR modules, e.g., Arduino Uno)
Relay module (for switching higher voltage devices)
Connecting wires and breadboard
Wiring the Module
For an IR-controlled module with Arduino: Connect the GND pin of the IR receiver to Arduino GND.

Connect VC

C to Arduino 5V. Connect the signal pin to a digital input pin on Arduino (e.g., pin 11). Connect the light to a relay module, which is then connected to Arduino digital output pins to switch the light on/off.



For an RF-controlled 12V module: Connect the input terminals to a 12V power supply (positive and negative). Connect the output terminals to your 12V light or device, ensuring correct polarity. Use the learn button on the module to pair it with the remote (press multiple times depending on the mode: toggle, momentary, or delay),.

Programming and OperationIR Module with Arduino: Install the IRremote library in Arduino IDE. Use a sketch to read the remote codes by pointing the remote at the receiver and opening the Serial Monitor. Each button press will display a unique code.

Assign specific codes to actions: one button to turn the light on/off, another to blink or dim the LED. Upload the sketch to Arduino and test the remote control functionality.

R

F Module: After pairing, pressing the remote button will directly switch the connected device according to the selected mode: Toggle Mode: Single press turns the device on/off. Momentary Mode: Hold the button to activate, release to deactivate. Delay Mode: Activates the device for a preset time (e.g., 5 seconds) before turning off.

Tips and Troubleshooting

Ensure the receiver is within the remote's range and has a clear line of sight for IR modules. Check power supply voltage matches the module's requirements. If the device does not respond, re-pair the remote or verify wiring connections.

For Arduino projects, make sure the Serial Monitor baud rate matches the code (usually 9600). Use a relay module for high-voltage lights to prevent damage to the microcontroller. By following these steps, you can successfully use a light-controlled remote control module to wirelessly operate lights or other devices, either through direct RF switching or via an Arduino-controlled IR system.

Article Content

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Receive the signal and control an LED. First of all you need to know the control codes of your remote control. Connect only the IR sensor and run his code. Open the Serial Monitor and point

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Remote Control Light Bulb using a Relay

Controlling a high voltage light bulb using a relay module with an Arduino. Find this and other hardware projects on Hackster.io.

Remote Control Light Switch (ARDUINO)

If you plug the Arduino into your computer, you can use the Serial Monitor tool to view the value of the IR signals for the various buttons on your remote. This gives you the option of manually inserting these

Remote Control Light Bulb using a Relay | Arduino Project Hub

If any other button on the remote control is pressed, it will go to default case and nothing would happen. Watch the video below for the complete tutorial and demo.

Remote Controlled On-Off Switch Project

This tutorial will guide you through building a simple remote-controlled on-off switch that will work with most IR remote controls. And you only need four components to build it.

Voltaat Learn

Thanks to Arduino, you can control turning on and off lamps using an ir remote. You can also control the color of the lamp's lighting. In this tutorial, we will learn how to control an RGB LED to light up

How to Control LEDs With an Arduino, IR Sensor, and Remote

Use an Arduino, infrared sensor, and remote to control LEDs. In this project, we are going to control LEDs using an IR sensor and a remote. The IR sensor is a 1838B IR receiver.

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