

How to use the tracking light module



AI Overview

Tracking light control modules can be used either with microcontrollers like Arduino for line-following projects or with devices like DJI Osmo Mobile 7 for smart tracking and fill light control.

Using a KY-033 Line Tracking Sensor with Arduino

Overview: The KY-033 module detects reflective surfaces using infrared light. It outputs a digital signal: HIGH when a dark surface is detected and LOW when a light surface is detected.

Connections: VCC → 3.3–5V power supply on Arduino
GND → Ground
OUT (DO) → Digital input pin on Arduino (e.g., pin 7)

Operation: Place the sensor above a line or surface with high contrast. Adjust the onboard potentiometer to fine-tune sensitivity. Use Arduino code to read the digital output and control LEDs, motors, or other actuators.

Example: Turn on an LED when a dark line is detected or adjust motor speed for a line-following robot.

Tips: Avoid direct sunlight or strong infrared sources. Use pull-up resistors if the microcontroller input pin is not internally pulled up. Multiple sensors can be used for more precise line tracking.

Using the DJI OM Multi-Functional Tracking Module

Setup: Attach your phone to the DJI OM gimbal using the magnetic phone clamp. Install the tracking module facing forward or backward depending on shooting needs. Connect the phone via USB-C to Lightning cable if required.

Controls:

- Gestures:** Palm gesture or Trigger button → Start/stop smart tracking
- "V" gesture → Start/stop photo or video countdown
- Figure-eight gesture → Adjust framing during tracking

Fill Light Control (for Osmo Mobile 7P):

- Long press dial → Turn fill light on/off
- Single click → Switch between brightness and color temperature adjustment
- Rotate dial → Adjust brightness (8 levels) or color temperature (8 levels)
- Double-click dial → Switch between manual focus/zoom and fill light control

Pairing and Charging: Use the pairing button to connect with DJI Mic Mini TX. Indicator lights turn solid green when ready. Connect the phone charging/recording cable to charge the phone or record audio.

Tips: Ensure Bluetooth pairing is complete before...

Article Content

Arduino Line Tracking Sensor Module KY-033 (HW-511)

Wire the KY-033 line tracking sensor module with Arduino to follow black lines — pinout, wiring diagram, calibration, example code & Fritzing part

How to Use Line Tracking Sensor: Examples, Pinouts,

Learn how to use the Line Tracking Sensor with detailed documentation, including pinouts, usage guides, and example projects. Perfect for students, hobbyists,

Officetel-watcher/seen.json at main · siufuguv-hub/Officetel ...

Contribute to siufuguv-hub/Officetel-watcher development by creating an account on GitHub.

Line Tracking Sensor Module with Arduino – Step by

The Line Tracking Sensor module is a versatile component used in robotics and automation projects. It is specifically designed to detect lines on the

Using the Tracking Sensor Module KY-033 with Arduino

Learn how to use the Tracking Sensor Module KY-033 with Arduino. Build projects that can detect light absorption and reflection.

How to Use Obstacle Avoidance and IR Tracking Sensors on the

In this article, we will show you how to use obstacle avoidance and tracking sensors on an Arduino. Obstacle avoidance sensors use infrared light to detect when an object is close to the sensor.

Line Tracking Sensor Module with Arduino – Meganano

How the Line Tracking Sensor Module Works The line tracking sensor module employs sensors to emit infrared light onto the surface and

Line Tracking Sensor Module with Arduino – Meganano

In this sensors and modules guide, we explained the functionality of the Line Tracking Sensor, exploring its working principles, and demonstrating how to interface it with an Arduino for

DJI RS 4 Mini Intelligent Tracking Module

#dji #djirs4 #djirs4mini #djiproducts #drone This video will introduce how to use the intelligent tracking module. Need help? Contact us via Facebook Messeng...

DaVinci Resolve – Color | Blackmagic Design

Work with Nodes Nodes are the building blocks of color correction in DaVinci Resolve. The first node is usually used for image balancing, while additional

Adobe After Effects Help

Shadow catchers Enable lights to cast shadows Extract and animate lights and cameras Extract and animate lights and cameras from 3D models Adjust Default Camera Settings Adjust Default Camera

How to use Line Tracking sensor module (KY033) with Arduino

#arduino #project #tutorial #keyes #sensor #KY033 #arduinoide #arduinoproject This video shows how to use the KY-033 Line Tracking sensor module with Arduino.

Line Tracking Sensor Module with Arduino – Step by Step Guide

You've successfully set up and used the Line Tracking Sensor module with Arduino. Whether you're creating a line-following robot or working on line detection projects, this versatile

User Manual

If the status indicator does not light up after installation, check if the magnetic attachment is in place. If the tracking module idle for more than five minutes, it automatically enters sleep mode

KY-033 Line Tracking Sensor Arduino circuit and

This module has integrated onboard a line tracker, on board built-in potentiometer which will be used to adjust the detection range, one microchip,

Lesson 13 How to Use the Tracking Module

Since the Raspberry Pi can only read digital signals, the three-channel infrared tracking module is equipped with a potentiometer. You can use a cross screwdriver to adjust the

Lesson 6 How to Use the Tracking Function

Method 1: Adjust the accuracy of the tracking module by simulating the height after installation. Method 2: If you don't want to remove the Raspberry

SmartSenior : selbstständig, sicher, gesund und mobil im Alter ...

SmartSenior : selbstständig, sicher, gesund und mobil im Alter ; Abschlussbericht ; Laufzeit des Teilvorhabens: 01.04.2009 - 30.09.2012 — Version 1.0 (German)

Oracle APEX

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Buy a Raspberry Pi Camera Module 2 – Raspberry Pi

Specification The Raspberry Pi Camera Module 2 replaced the original Camera Module in April 2016. The v2 Camera Module has a Sony IMX219 8-megapixel

Seat Belt Repair Service | Airbag Module Reset

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How to Use Obstacle Avoidance and IR Tracking

Tracking sensors use infrared light to detect when the sensor is positioned over a dark or light colored object. They are commonly used to guide remote controlled

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