

MU Vision Sensor

SEN0314

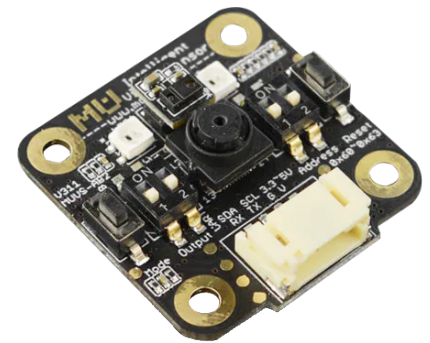
Product Overview

07-26-2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

DFRobot SEN0314 MU Vision Sensor is an image recognition sensor with a built-in deep learning engine. The sensor adopts a 30W wide-angle lens and various vision algorithms that make robots more intelligent and independent. This MU vision sensor helps to build a smart robot that can trigger suitable behaviors to deal with random events in the environment. The sensor can be used to recognize and locate a variety of objects such as colors, balls, humans, and cards.



The MU vision sensor supports UART, I²C, and WIFI communication modes. This sensor is suitable for Arduino, Mixly, and micro:bit embedded platforms. This helps in exploring the powerful capabilities of the MU Vision sensor regardless of the development platforms. The MU vision sensor is used to complete intelligent applications such as smart printing and scanning car robot, and basketball shooting robot.

Features

- Low power consumption and small in size
- Easy to use
- Supports UART, I²C, and WIFI communication modes
- Suitable for Arduino and micro: bit embedded development
- Reliable and secure

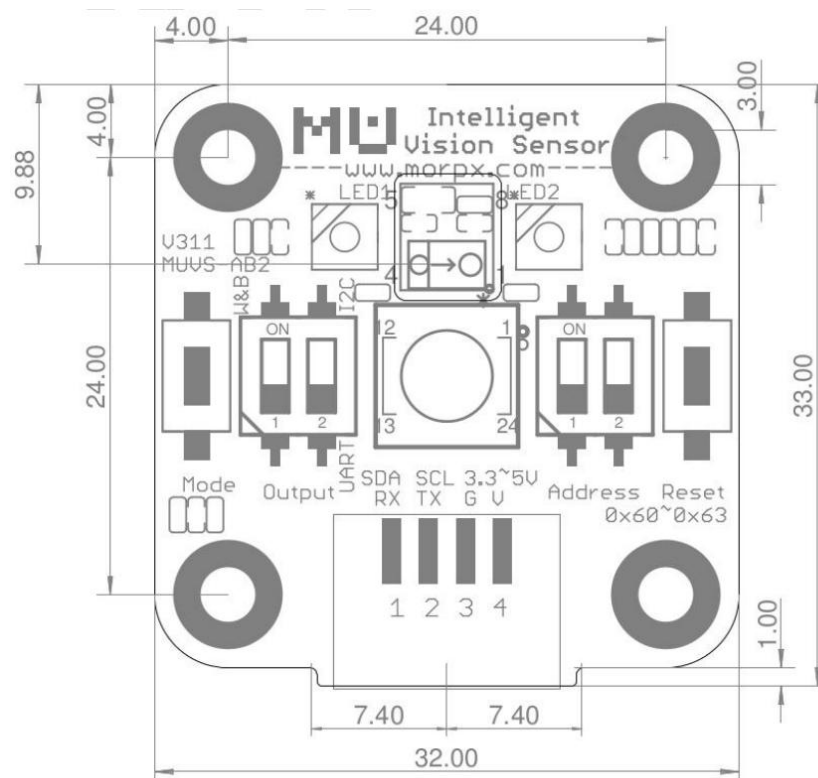
Applications

- Smart print and scan robot car
- Intelligent unmanned vehicle
- Basketball shooting robot

Specifications

- Dual-core, 240MHz processor
- Omnivision ov7725 camera
- 640 x 480 camera resolution
- 2 LED lights
- 3.2cm x 3.2cm x 1.2cm dimensions
- 5V power supply
- WiFi image transmission functions in development
- Motion routine detection (detection of hand movement from top to bottom, left to right, etc., non-gesture sensing)
- Face recognition
- QR code recognition

Board Dimensions



Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-mu-vision-sensor/>