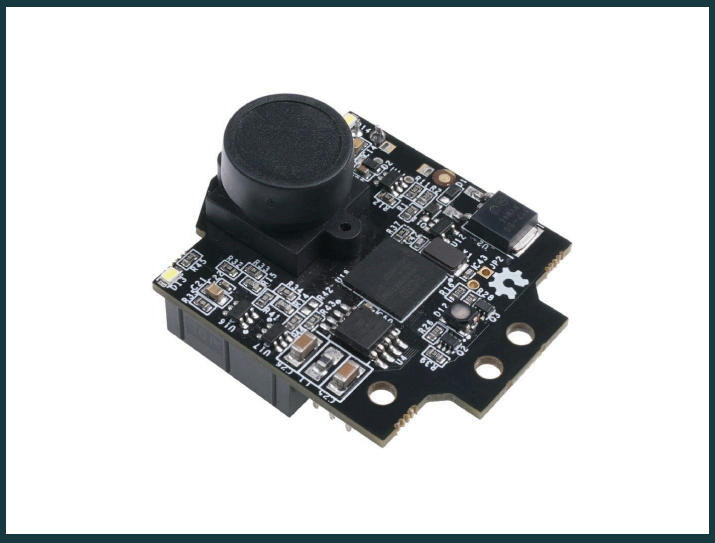
seeed studio

INDUSTRIAL PRODUCT DATASHEET

Pixy2 CMUcam5 - Smart Vision Sensor - Object Tracking Camera for Arduino, Raspberry Pi

Pixy2 CMUCam5 is a complete vision system with a powerful image sensor and microprocessor.

SKU	UPDATED	PRICE
102991074	2026-11-11 08:02:50	$79.00(Excl. VAT)



Overview



Pixy2 CMUCam5 is a complete vision system with a powerful image sensor and microprocessor. The Pixy2 CMUcam5 is smaller, faster, and more capable than the original Pixy. With the help of the new algorithms, it can detect and track lines for use with line-following robots and even intersections and “road signs” as well. With its strong sensitivity, your robot will be more flexible.

Key Features

01 **Strong Performance**

Process at 60 frames per second, find hundreds of objects simultaneously, can remember seven color signatures internally, can support multiple Pixy2 vision sensors to one microcontroller

02 **Easy and simple to operate**

Teach Pixy2 an Object at the Push of a Button and can only receive the objects you are interested in

03 **Smart new algorithms**

detect objects, track lines, even read barcodes without the help of a host computer, and detect intersections and "road signs"

04 **Strong Compatibility**

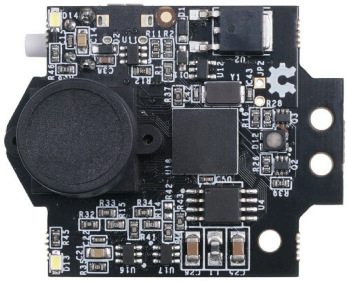
include software libraries for Arduino, Raspberry Pi, support SPI, I2C, UART, USB, or analog/digital output, and Configuration utility runs on Windows, macOS, and Linux

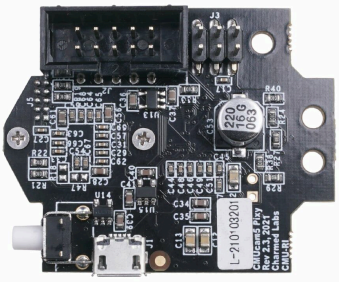
05 **Fully Open source**

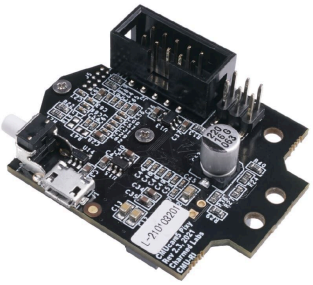
All software/firmware is open-source GNU-licensed and all hardware documentation is provided.

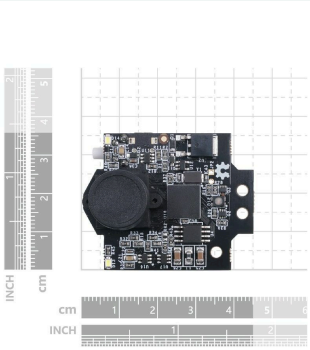
Product Gallery











Applications

- **Small mobile intelligent robot with image recognition**
- **Image Recognition project**
- **Object Tracking project**
- **Barcode Reading**

Resource Links

- https://www.seeedstudio.com/Pixy2-CMUcam5-Smart-Vision-Sensor-p-3091.html
- Pixy2
- Quick-Start Guide
- Pixy2 Recent Software/firmware Releases Downloads
- Connecting Pixy2 to Arduino
- Connecting Pixy2 to Raspberry Pi
- Teach Pixy2 an Object
- Lots of different applications
- What's a "color code"
- Color connected components API
- Line tracking API
- Where to Get Help
- Pixy2 Index

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