

# SEN-14678 Pixy2 CMUcam5

## Product Overview

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For the most up-to-date information, visit [www.mouser.com](http://www.mouser.com) or the supplier's website.

## Description

SparkFun SEN-14678 Pixy2 CMUcam5 is a camera that detects objects with the press of a button and is smaller, faster, and more capable than the original Pixy. The Pixy2 additionally has new algorithms that detect and track lines in the application for use with line-following robots, to detect intersections, and 'road signs' as well. This pixy2 has a 60 frames-per-second functioning hence making the robot fast. The module also comes with a special cable to plug directly into an Arduino, a USB cable into a Raspberry Pi, and features interfaces such as SPI, I<sup>2</sup>C, UART, and USB with simple communications.



The SEN-14678 camera includes an NXP LPC4330 processor and the ON Semiconductor MT9M114 image sensor with 1296 x 976 resolution with an integrated image flow processor. This Pixy2 camera offers 264KB RAM, 2MB Flash, 20lumens integrated light source, and consumes 140mA typical power. The Pixy2 functions on a color-based filtering algorithm to detect objects as it is fast, efficient, and relatively robust.

## Features

- 204MHz dual-core NXP LPC4330 processor
- MT9M114 image sensor with 1296 x 976 resolution and integrated image flow processor
- 60° horizontal and 40° vertical lens field-of-view
- 140mA (typical) power consumption
- Power input:
  - 5V USB input
  - 60V to 10V unregulated input
- 264KB RAM
- 2MB flash memory
- Available data outputs:
  - UART serial, SPI, I2C, USB, digital, and analog
- Approximately 20lumens integrated light source
- 1.5" x 1.65" x 0.6" dimensions
- 10g weight

## Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/sparkfun/sparkfun-sen-14678-pixy2-cmucam5/>