



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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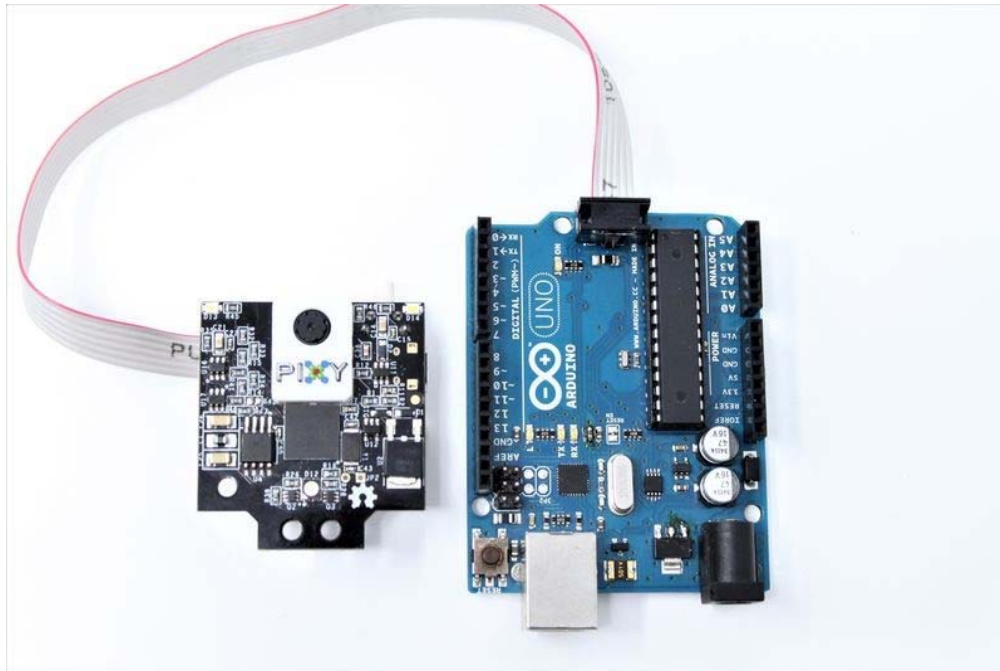
Pixy 2 CMUcam5 Image Sensor (Robot Vision)

SKU:SEN0265

INTRODUCTION

Pixy2 is smaller, faster and more capable than the original Pixy. Like its predecessor, Pixy2 can learn to detect objects that you teach it, just by pressing a button. Additionally, Pixy2 has new algorithms that detect and track lines for use with line-following robots. The new algorithms can detect intersections and “road signs” as well. The road signs can tell your robot what to do, such as turn left, turn right, slow down, etc. And Pixy2 does all of this at 60 frames-per-second, so your robot can be fast, too.

Connect directly to Arduino or Raspberry Pi



No need to futz around with tiny wires — Pixy2 comes with a special cable to plug directly into an Arduino and a USB cable to plug into a Raspberry Pi, so you can get started quickly. No Arduino or Raspberry Pi? No problem! Pixy2 has several interfaces (SPI, I2C, UART, and USB) and simple communications, so you get your chosen controller talking to Pixy2 in short order.

Simplify your programming

A screenshot of the Arduino IDE (version 1.8.5) showing a C++ sketch for Pixy2. The sketch is titled "ccc_hello_world" and is displayed in a text editor window. The code is as follows:

```
ccc_hello_world

void loop()
{
  int i;
  // grab blocks!
  pixy.ccc.getBlocks();

  // If there are detect blocks, print them!
  if (pixy.ccc.numBlocks)
  {
    Serial.print("Detected ");
    Serial.println(pixy.ccc.numBlocks);
  }
}
```

To get you up and running as fast as possible, we offer software libraries for Arduino and Raspberry Pi. Pixy2 makes your programs simpler by only sending the data you're looking for. For example, if you teach Pixy2 a purple object, you will only receive data (X-Y coordinates, size, and unique ID) about the purple objects that Pixy2 detects.

FEATURES

- Pixy2 detects lines, intersections and small barcodes, intended for line-following robots
- Improved framerate – 60 frames-per-second
- Tracking algorithms have been added to color-based object detection
- Improved and simplified libraries for Arduino, Raspberry Pi and other controllers
- Integrated light source

SPECIFICATION

- Lens type: Standard M12
- Processor: NXP LPC4330, 204 MHz, dual core
- Image sensor: Aptina MT9M114, 1296x976 resolution with integrated image flow processor
- Lens field-of-view: 60 degrees horizontal, 40 degrees vertical
- Power consumption: 140 mA typical
- Power input: USB input (5V) or unregulated input (6V to 10V)
- RAM: 264K bytes
- Flash: 2M bytes
- Available data outputs: UART serial, SPI, I2C, USB, digital, analog
- Dimensions: 1.5" x 1.65" x 0.6"
- Weight: 10 grams
- Integrated light source, approximately 20 lumens

SHIPPING LIST

- Pixy 2 CMUcam5 Image Sensor x1
- FC-10P to FC-6P Cable x1
- Screw Package x1



