

Zhiwei Robotics Corp.

Delivery Intelligence

Add: Rm 615, Bldg Y1, No 112, Liangxiu Rd, Shanghai China

Tel: 021-61630503

Fax: 021-61001657



DFROBOT
DRIVE THE FUTURE

DATE: 2017/5/5

Data Sheet of IR Positioning Camera For Arduino (SEN0158)

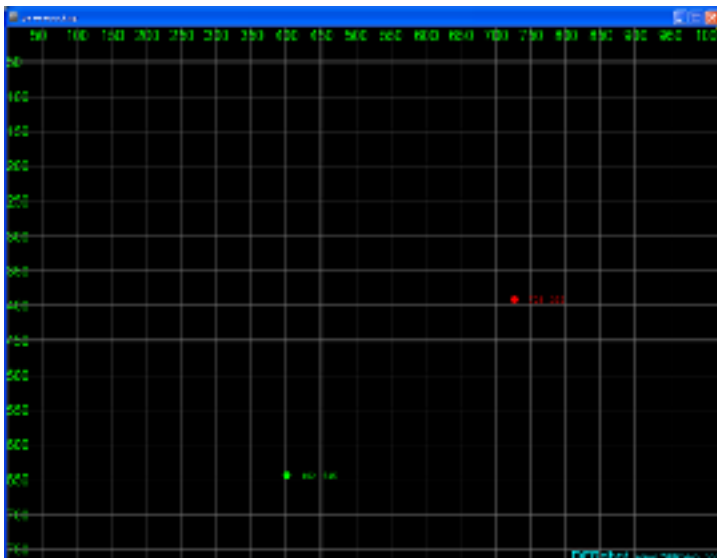
INTRODUCTION

Want a robot to hunt down heat objects or navigated with fire? This is a small form factor IR camera capable of tracking up to four heat/IR sources. The applications are plenty and can go from tracking of robots with IR transmitters for navigation to light barriers, determining the direction where the object is going, and working as a flame sensor or tracking heat sources. It's fully compatible with Arduino with only four wires: two for power supply and two for I2C.

This infrared positioning camera can be controlled with Arduino, AVR via I2C interface. It is able to track mobile infrared points and to transmit the data back to host. The horizontal angle of camera is 33 degrees while the vertical angle is 23 degrees. It returns up to four points at a time when identifies an object. With advantages of high resolution, high sensitivity, high accuracy, small build and light weight, this Positioning IR Camera can be widely used in robot automatic search, robot soccer game, mobile trajectory recognition.

Whats more, this IR Camera can be used in making a low cost electronic whiteboard, touch screen and virtual reality headset, as seen in Johnny Lee's [TED presentation](#) about cheap Wii remote hacks. For more details, you can check his [blog](#).

Warning: Make sure the user knows about the power supply either directly on the sticker on the module or/and in the manual.



real-time position tracking with arduino and processing via I2C interface

Zhiwei Robotics Corp.

APPLICATIONS

Tracking of robots with IR transmitters for navigation.
Light barriers for determine the direction where the object is going to.
Flame sensor, tracking of heat sources.

SPECIFICATION

Operating voltage: 3.3-5v

Interface: I2C

Detecting distance: 0~3m

Horizontal detecting angle: 33 degrees

Vertical detecting angel: 23 degrees

Dimensions: 32mm x 16mm(1.26x0.63")

Resolution is 128x96 pixel, with hardware image processing, which can track four objects (IR emitting or reflecting objects)

DOCUMENTS

[Wiki \(Positioning ir camera\)](#)

[Datasheet](#)

SHIPPING LIST

Positioning IR Camera x1