

Arduino 红外 光电传感器 红外追踪器 程控小车 Pololu 原装进口

产品名称	Arduino 红外 光电传感器 红外追踪器 程控小车 Pololu 原装进口
公司名称	哈尔滨奥松机器人科技有限公司
价格	面议
规格参数	品牌:pololu 型号:RB-03T036
公司地址	中国 黑龙江 哈尔滨市 南通大街258号船舶大厦西区412B室
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产品详情

通知：奥松机器人科技有限公司于2013年正式成为美国pololu官方授权中国区域代理商，此款产品为国内首发，火热抢购中，由于数量有限，拍下时请咨询客服是否有库存。

arduino 红外传感器 光电传感器 红外追踪器 程控小车 pololu 原装进口

pololu原装进口的ir beacon transceiver 红外收发模块是一款非常简洁的电路板，成对用于机器人之间相互定位。每块板子在各个方向都有可以四个红外信号发射器和四个红外接收器用于检测其他红外信号。您可以使用它制作一款小游戏，两个机器人互相追逐或是追赶其中一个，再或者是让一个机器人独立搜寻信号回到家中。

生动形象的猫追老鼠小游戏

规格参数：

1、产品名称：ir beacon transceiver 红外收发模块

- 2、产品货号：rb-03t036
- 3、pcb尺寸：1.35英寸
- 4、红外调制频率：56hz
- 5、输出刷新率：20hz
- 6、检测范围：6英寸到20英尺
- 7、电源电压：6-16 v
- 8、数据电压：5 v
- 9、红外探测器数：4

产品清单

工作原理：

该模块通过发射和检测红外光来工作，就像电视遥控器一样。四个红外发射器和四个红外探测器之间交替发送和接收，有效避免检测到自身的反射信号。

发送和检测周期超过1000次/秒，并且由板子上的微型控制器通过处理来自四个接收器的数据来判断信号方向。

板子的使用很简单--它有四个数字输出，可以读出四个方向中哪几个方向检测到了目标信号。把两块板子放在一起，来回旋转其中一块板子，另一块板子的指示灯就能够指明它的位置方向。还有一个使能端可以选择切换到工作模式还是低功耗模式。

ir beacon transceiver 红外收发模块工作中。。。

description：

the pololu ir beacon is a compact board that is used in pairs to allow robots to locate each other. each board has infrared emitters that shine in all directions and four ir receivers for detecting the other beacon. the ir beacons have a range of about fifteen feet indoors. this item is for a pair of beacons in one package.

pololu ' s new ir beacon (infrared beacon) is an updated version of our original ir beacon. like the original unit, the devices are transceivers meant to be used in pairs to give robots a simple means for detecting each other. you can use the beacons to build pairs of robots that interact or chase one another, or to make a robot that can identify and return to a home base. for example, you could build a “ cat robot ” and “ mouse robot ” that each have an ir beacon, where the cat chases the mouse and the mouse runs away from the cat. the beacons are ideal for autonomous robot contests in which robots compete in pairs, such as mit ' s annual 6.270 autonomous robot design competition, where our original beacons were used for several years.

the new ir beacons feature round pcbs with six wide-angle emitters to provide uniform broadcasting in all directions. the operating voltage range has increased to 6 – 16 v, and on-board voltage monitoring enables a more consistent output brightness over the voltage range. most components are pre-assembled, so all you need to solder is the capacitor, connectors, and sensors (make sure you solder them in from the bottom of the pcb!).

note:the pololu ir beacon is a kit; before using it, you need to assemble the beacon by soldering its components onto its circuit board. to use the kit in robotics projects, you need to connect it to your own robot controller. please note that the ir beacons only work in pairs and that certain kinds of artificial lighting (e.g. some fluorescent lights) can interfere with the sensors.

工作电路图

相关下载文件（复制链接到浏览器）：

1.ir beacon user ' sguide(317k pdf)

http://www.pololu.com/file/0j31/irb02a_guide2.pdf

2.beacon locating robot – powered by arduino and ir transceiver

<http://www.robotishappy.com/2009/12/beacon-locating-robot-powered-by-arduino-and-ir-transceiver/>

本产品的加工定制是是，品牌是pololu，型号是RB-03T036，种类是射线辐射，材料是聚合物，制作工艺是集成，输出信号是数字型，红外调制频率是56Hz，输出刷新率是20Hz，货号是RB-03T036