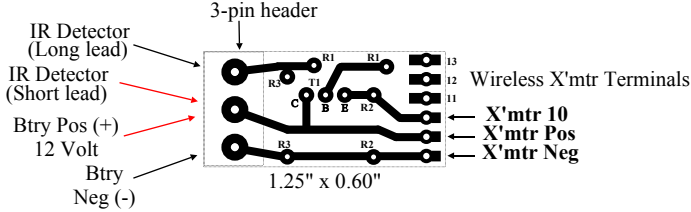


Wireless Infrared floodlight Version 2

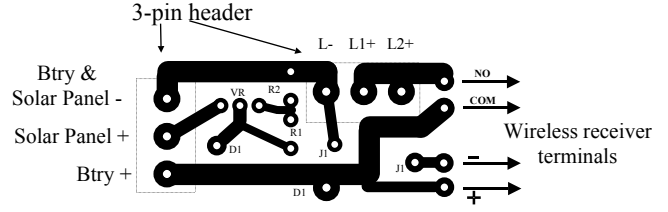
IR Detector / Transmitter



- R1 - 82K Ohm, 1/4 watt
- R2 - 1K Ohm, 1/4 watt
- R3 - 270 Ohm, 1/4 watt
- T1 - BC548 NPN Transistor
- PCB - 1 oz copper clad fiberglass
- IR Detector - LENO0 Infrared Photo transistor Receiver LPT052 900nm

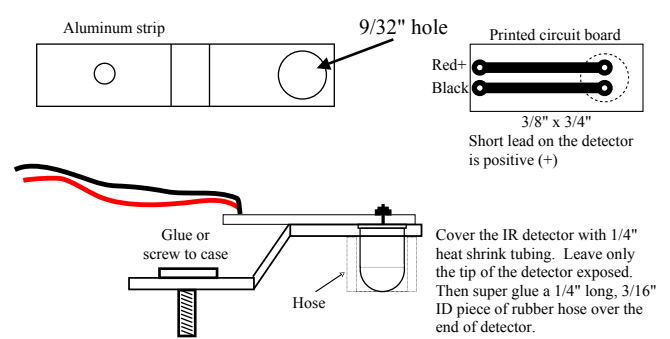
Note - The copper traces will be on the bottom of the circuit boards and the components on top. The above circuits will be reverse printed on the bottom and the above views are as if the viewer is looking through a transparent board from the top.

Power Collector / Wireless Receiver



- R1 - 220 ohms
- R2 - 2200 ohms
- D1 - 3 Amp Schottky diode
- J1 - 22 gauge bare Jumper wire
- VR - LM350 Adjustable positive voltage regulator
- L1, L2 - Infrared LED lamps
- Total current draw by the floodlight should not exceed 2 amps

IR Detector Probe



Detector should be positioned as close as possible above one of the LED's in the camera.

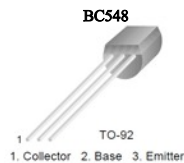


A 9 volt Alkaline battery is sufficient for the IR Detector circuit and should provide more than 30,000 photos assuming each photo activates the IR's for about 1 second. The wireless receiver circuit will require a 12V SLA battery 7Ah or larger in size including a 10W or larger solar panel if frequent site visits are not desired. If taking lots of video then consider a 10Ah or larger battery. If a solar panel is used (optional) with the receiver board then the panel will NOT need a blocking diode and the panel will be voltage regulated to 13.75 volts.

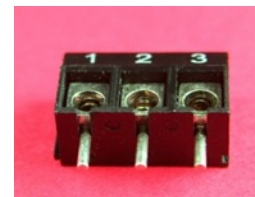
5mm LENO0 Infrared Photo transistor Receiver LPT052 900nm



IR Detector



T1



3 pin header

All items available on Ebay

Version 2 has simpler circuits and uses less current

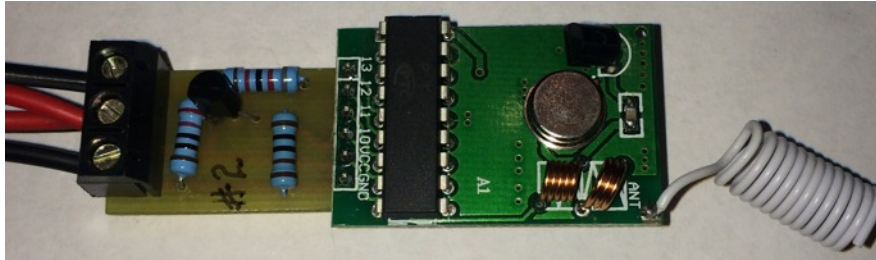
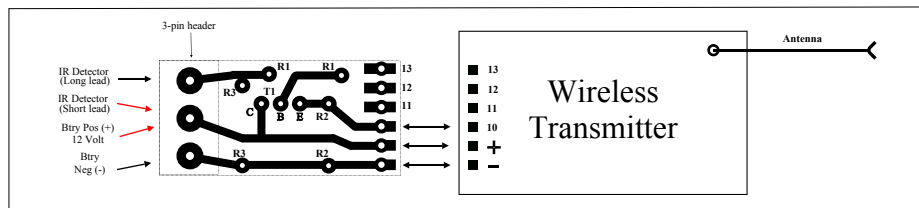
IR Detector Circuit quiescent current = 4.0 micro-amps, operating current ~ 20ma

Power Collector Circuit quiescent current = 7.0ma,

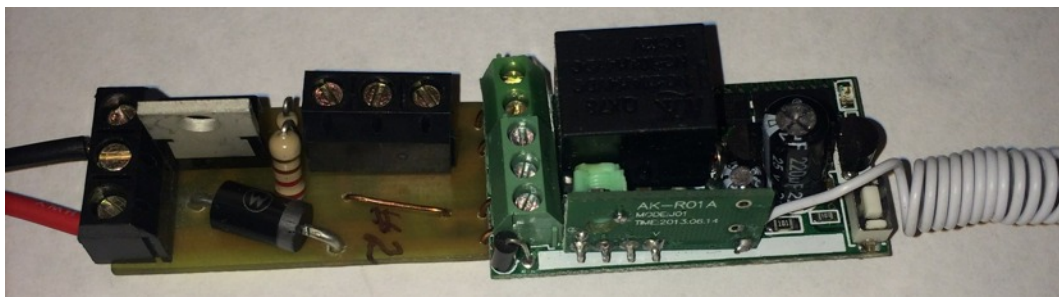
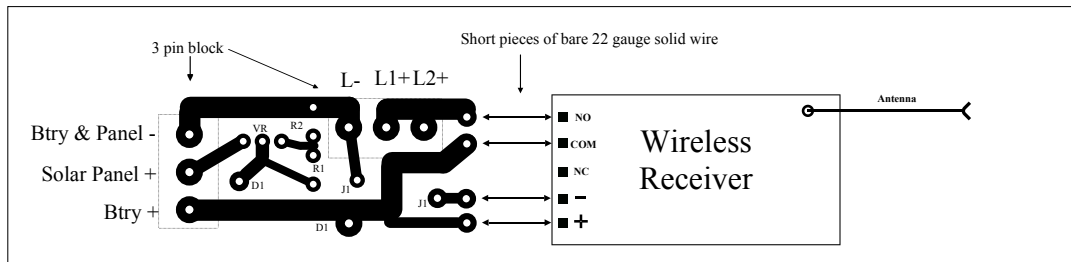
Wireless Infrared floodlight activated by game camera

Or any IR source

IR Detector / Wireless Transmitter



Power Collector / Wireless Receiver



433MHz DC 12V Single Channel Learning
Code Wireless Remote Control Relay



Receiver

SC2262 PT2262 PT2264 433MHZ ASK OOK
Encoders RF Wireless Transmitter Modules



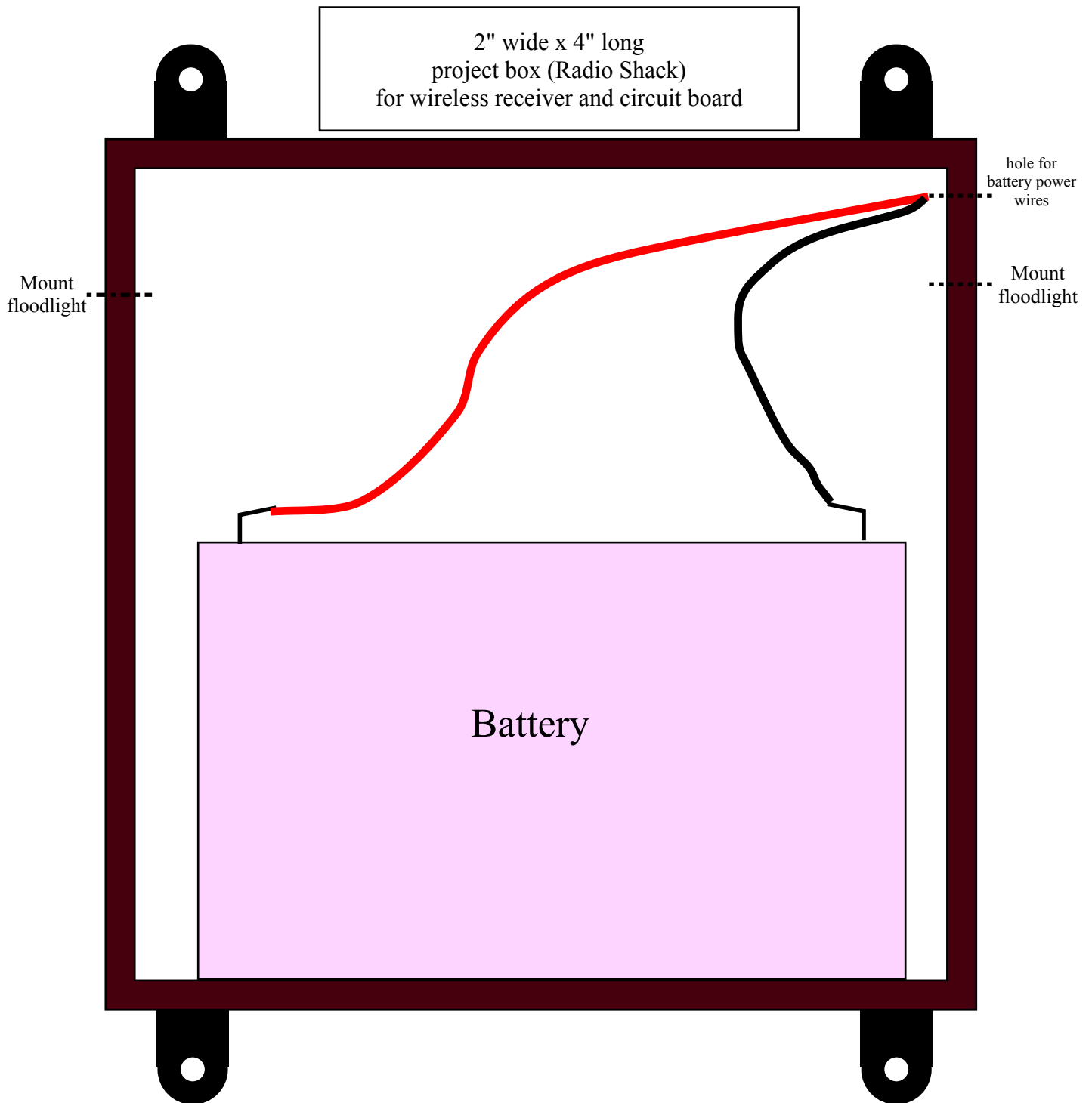
Transmitter



850nm Infrared LED's
Available on Ebay

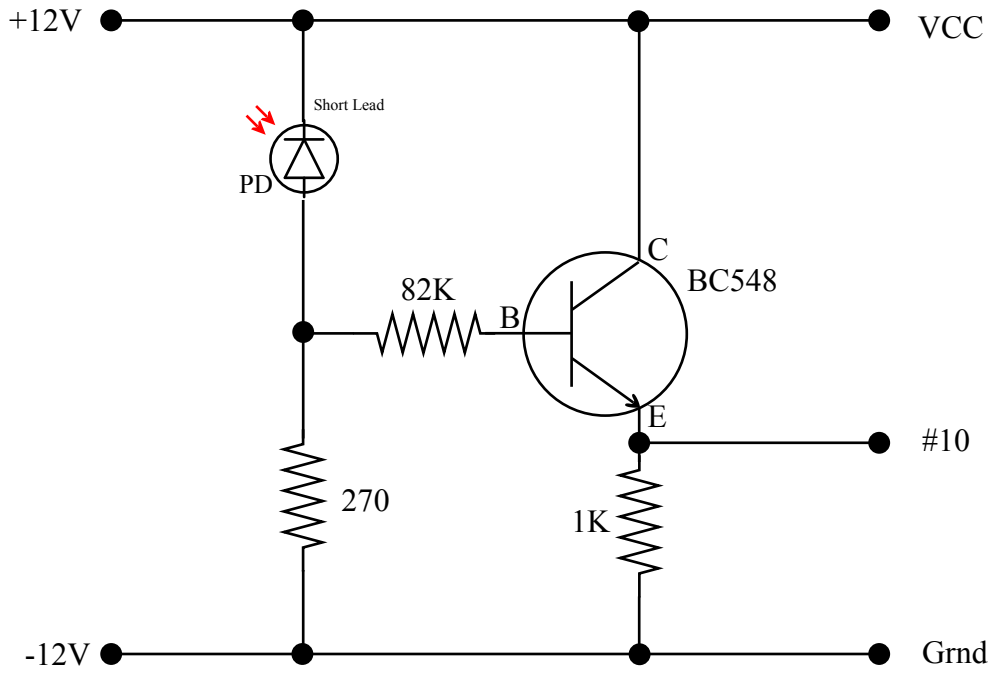
Note - this pair is compatible, with a range of over 300 meters.
Both are available on Ebay.

Waterproof enclosure for battery



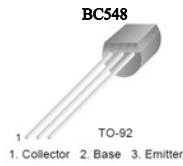
Note - Project box can be kept within the battery compartment but transmission distance will be decreased.

IR Detector circuit diagram



Transmitter

Quiescent current = 0.01ma
Operating current = 35ma (When IR's are firing)



T1

