

# Blicket Box

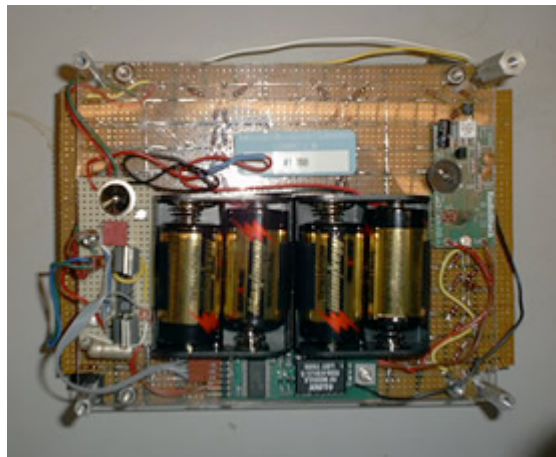
The blicket box is made from readily available parts and is powered by 4 C batteries.

## List of materials

- 8"x6"x3" ABS project enclosure (Radio Shack 270-1809)
- 4 C battery holders
- 156 redish orange LEDs (Newark HLMP-EH25-TW000)
- 72 33Ohm resistors
- 6 roller lever switch (Radio Shack 275-017A)
- 1 Mini song player (Radio Shack 276-720)
- 1 Parralax wireless receiver module (Parralax 280004)
- 1 Parralax wireless transmitter (Parralax 280005)
- 1 National Semiconductor 5V low dropout voltage regulator (National Semiconductor LM2940)
- 1 National Semiconductor adjustable voltage regulator (National Semiconductor LM317)
- 1 50KOhm potentiometer
- 1 Hex Inverter (Harris CD74HCT04)
- 2 Power mosfets (International Rectifier IRF 533)
- 1 Mercury switch
- 1 silent wall switch
- 1 push button

## Schematics

The LEDs and resistors are all soldered onto a perfboard which is mounted to a clear acrylic sheet. All other electronics and batteries are mounted beneath.





The LED array and the electronics fit inside the box and rests on standoffs. Roller switches mounted on a bracket on the side of the box detect when an object is place on the blicket box. A paper diffuser (not shown) is placed in between the LEDs and the top of the box to provide a more uniform lighting.

The top of the box is cutout and a orange sheet of lexan is cut to fit. The orange lexan rests on top of the rocker switches and is guided by the top of the black enclosure.



A cutout is made in the bottom of the enclosure for easy access to the batteries. The battery compartment is covered with black lexan sheet (not shown).

The remote consist of a silent wall switch and a push button. The remote is powered by a 3V wall transformer.

