

Mini7Plus IR Spotlight Assembly Instructions

Step 1: Check parts list

The Mini7Plus IR Spotlight kit contains the following parts:

- Qty 1 Mini7Plus IR Spotlight printed circuit board (PCB)
- Qty 7 Infrared (IR) LEDs
- Qty 1 100Ω 0.5W ±5% resistor (brown black brown gold stripes)
- Qty 2 power leads (red = positive, black = negative)

Step 2: Collect your tools

Assembly of the Mini7Plus IR Spotlight requires the following tools and supplies:

- Soldering iron
- Solder
- Wire cutters
- Eye protection

Step 3: Install and solder parts

Important Note: LEDs are polarized. Install longer lead in hole with square pad.

- Install a single IR LED in the center position on the top side of the PCB
- Install the current-limiting resistor on the back side of the PCB
- Install remaining LEDs
- Install power leads: red = positive (square pad), black = negative (round pad)

Step 4: Test

Apply 12VDC to power leads. Examine Mini7Plus light output using video camera or your phone. The light will be almost entirely invisible to the human eye.