

# Raymond the Raybox

Raymond the Raybox is designed to be powered from a 6 volt source. This may be a low voltage power supply unit or a battery. If a low voltage power supply is used, it should be capable of supplying 6 volts at a minimum of 500mA (0.5 amps). Suitable batteries are a PJ996 lantern battery or 4 x C or D cells wired in series.

When using the triple slits, parallel light may be obtained by placing a plano-convex or biconvex, cylindrical lens ( $f=75\text{mm}$ ) against the slits.

The colour mixing circles may be obtained by placing Raymond approximately 30cm from a white screen. The single slit should be masked which will project a blue circle of light onto the screen. The two plane mirrors should be mounted, long side vertically, in Plasticine on either side of the raybox and aligned so that the red and green circles overlap the blue (see diagrams below).

