

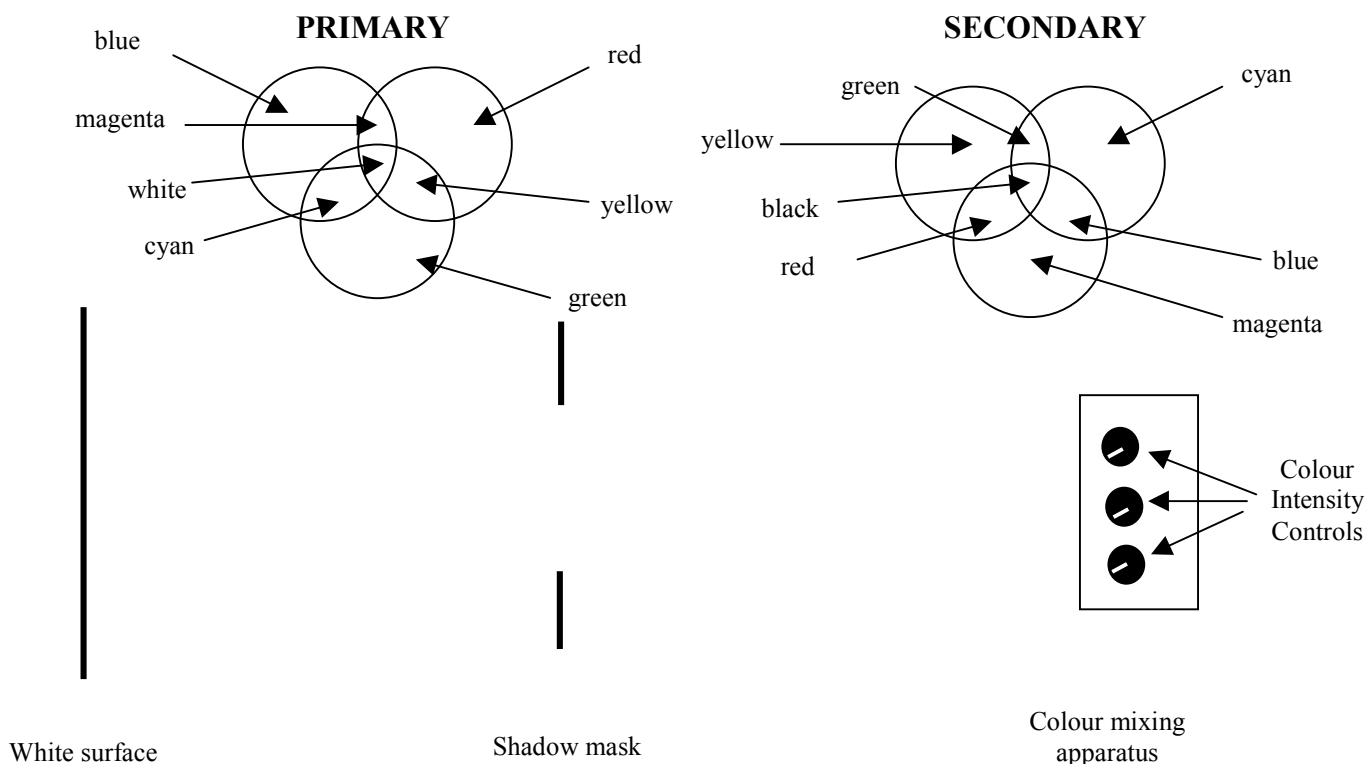
# Demonstration Colour Mixing Apparatus

**The apparatus is best used in a darkened or blacked out room.**

The apparatus is supplied with a primary mixing shadow mask. This is an A4 sized perspex stand with a large circular hole in it.

- Set the power supply output to 12 volts and plug it into the unit.
- The red, blue and green leds should illuminate, if not, ensure that the control knobs are turned fully clockwise.
- Aim the unit at a vertical white surface from a distance of about 100cm and set the shadow mask about halfway between the unit and the white surface.
- The primary colour mixing circles should be displayed – you may need to scan the mask backwards and forwards to achieve a satisfactory image.

The secondary colour mixing mask looks like a large lollipop. Hold the mask about halfway between the unit and the white surface and then scan backwards and forwards until a satisfactory image is obtained. In order to explain the image, it is helpful to start with one colour and then add the others one at a time.



## Notes.

- Using Ishihara colour blindness cards, try shining light of different colours onto them to investigate colour reflection. (Download the cards from our website [www.electrosound.co.uk](http://www.electrosound.co.uk) Instruction Sheets)
- It should be noticed that the coloured discs are reversed from the positions of the leds on the unit. This is because of the inversion effect caused by shining light through a hole. e.g. the pupil of the eye.