

White Light Apparatus

The unit comprises a white led at one end and a colour mixing led at the other. Each is powered independently via its own power supply socket. The colour mixing led has independent brightness controls to allow the user to mix any colour of light. Although nominally rated at 3V, the PSU may be turned up to 12V to increase the led brightness.

Some suggested experiments

- Using small sheets of coloured paper shine the colour mixing led at various colours and record what you see. If the school possesses Ishihara Colour Blindness Test cards it is interesting to try reading them in the different coloured lights. Alternatively you can download them from www.electrosound.co.uk.
- Using a 45° prism and a slit sitting on white paper, aim red light at the prism and mark on the paper the ray of light as it enters and leaves the prism. Repeat for green and blue, ensuring that the incident light follows the same path. What happens?
- Repeat the above with the white led. Does the colour spectrum make sense now?
- Using a semi - circular glass block, work out the critical angle for the three coloured lights.

Electrosound, 30, Goulds Farm, Rayne, Essex CM77 6DF Tel/Fax 01376 340506

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