# Colour mixer, red, green and blue 309010

2026-19-05 / dts *Product manual* AE309010


1. Colour projectors 2. Red, green and blue knob 3. Power adaptor

**Introduction**

The mixing of the primary colours red, green and blue (RGB) is called additive colour mixing. The colour mixer allows red, green and blue light to be mixed which, in the right proportions, will produce white light.

**Scope of application**

The device is designed to be used in student experiments, when exploring the perception of colour. The effect of mixing three primary colours is demonstrated by the device by changing the angle and the strength of the lights

**Design and structure**

The design of the mixer is user-friendly and easy to operate. The three functional structures of the device is shown in the picture above.

**Experiment**

1. By mixing red, green and blue light in different proportions, different colours can be produced and observed. Therefore, red, green and blue are called the three primary colours of light.

2. RGB colour mixer can display red, green and blue colour separately; it can also display red-green, red-blue and green-blue in two-colour mixtures. Furthermore, it can display red-green-blue in a three-colour mixtures. By using the equipment, the students may explore what happens when mixing light of different wavelengths. A technique used in television screens, I-pads and other screen devices.

3. The device is not only small and exquisite, but also easy to use. The brightness of the three colours are all adjustable.