

Synchronised Audio Frequency and Light Emitting Device

ABSTRACT

This utility model belongs to the sound and light control technology. It involves audio frequency/signal-control device and audio/light-emitting device.

The device includes an audio frequency equalizer and amplifier circuits, speaker and light-emitting device.

Audio signal is fed to the audio frequency equalizer which will then output the processed signal to the speaker and the light-emitting device.

The light-emitting device consists of RGB LED (light-emitting diodes) with 3 frequency-band amplifiers. Each of the frequency band has a pre-set value, and each frequency band will represent a colour signal based on the primary colours. The light-emitting diodes will then decode the colour signals and emit the appropriate colour accordingly.

The light-emitting device will emit a dynamic change of colours based on the fluctuations of the audio frequencies, which will be synchronised with the audio input.

Figure 2