

DANCING LIGHT

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ABSTRACT

The first disco lights that flashed on the beat of the music were invented in about 1968. It is a set of lamps that flash to 3 different frequency ranges: one set in sync with the bass signal, one with the treble, and the last set in sync with the highs. Anyhow, dancing light has been decided to build because it is quite interesting.

The circuit involved the electronic part and fully hardware part only. This dancing light will use one microphone to capture the music. The music also can transfer into the circuit directly by using stereo cable and CD player. The input signal can choose either from microphone or stereo cable. The speaker also connects to the circuit so the music or input voices can hear clearly.

By referring to the music or input voice, this circuit has the data to create changes in the light. The dancing light will flash differently by playing different music or input voice. By building the dancing light, it makes the environment of music more attracting. It also can act as a broadcast by using the microphone preamplifier circuit and speaker. In any case, this system can improve by adding other features and functions. It will be very useful in the future because music is part of our life nowadays.

In this report, it consists of construction and definition of the dancing light. The function of each component had been mentioned in this report. The method and process of construction can be gained in this report.