

## IR Based Third Eye Implementation for Industrial Safety with Loud 60dB Siren

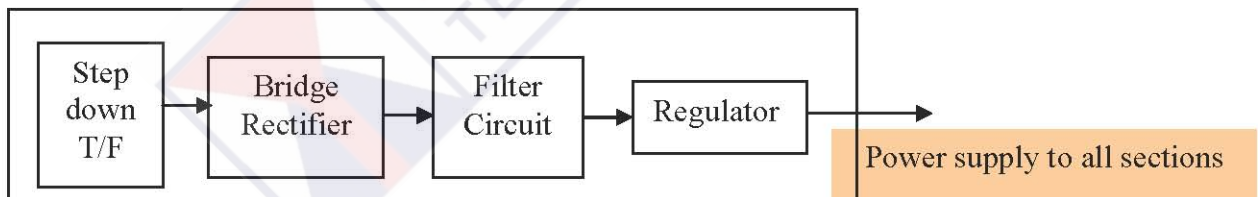
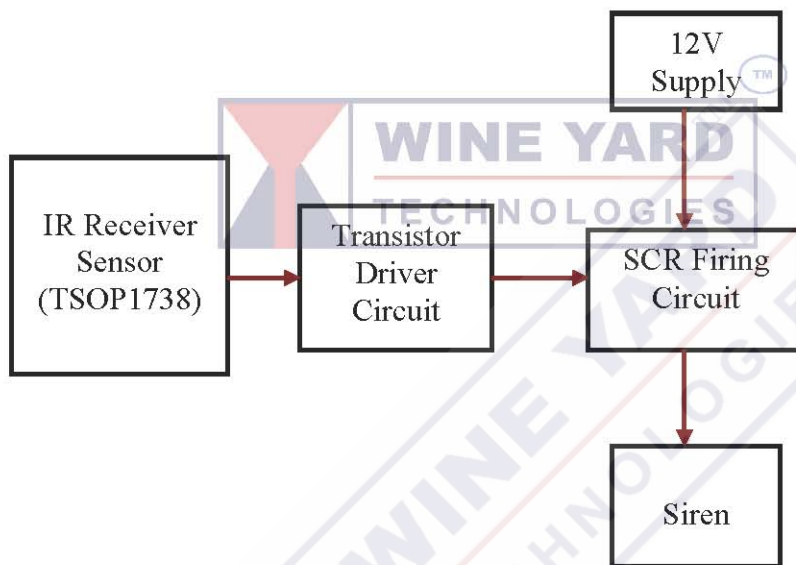
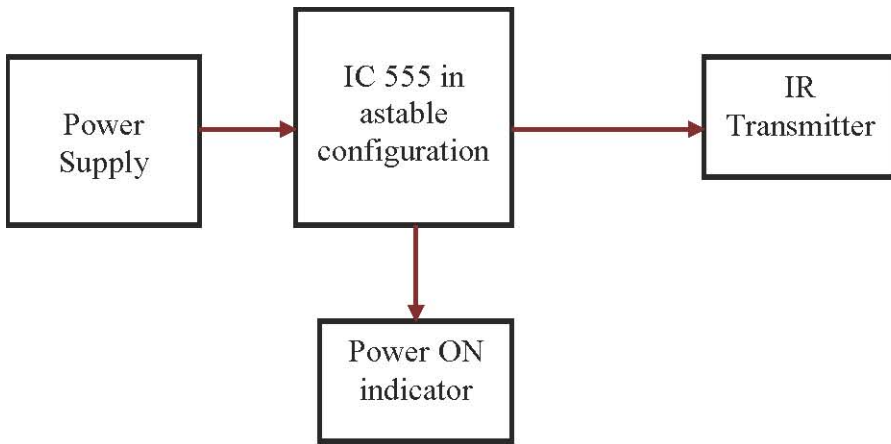
Security is primary concern everywhere and for every one. Every person wants his home, industry etc to be secured. This project describes a security alarm system that can monitor an industry and home. This is a simple and useful security system and easy to install.

There will be an arrangement of IR transmitter and IR receiver to which an LED and buzzer are connected. This IR transmitter and IR receiver are kept at two sides of the door of restricted area. The concept is such that, the IR transmitter transmits a frequency of 38 KHZ and this frequency should be detected or received by IR receiver. If any intruder comes in between this arrangement IR receiver cannot detect the signal and, so led and buzzer connected to IR receiver are activated, which alerts the people surrounding that area.

A 555 timer is operated in astable mode is connected to IR transmitter to generate a frequency of 38 KHz. Astable mode is one of the operating modes of 555timer. In this mode the timer doesn't have any stable state, it goes on changing its state with some particular delay. This feature is used in this project to generate required frequency.

This circuit uses regulated 5V, 500mA power supply. 7805 three terminal voltage regulator is used for voltage regulation. Bridge type full wave rectifier is used to rectify the ac out put of secondary of 230/12V step down transformer.

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**Advantages:**

Highly sensitive Fit and Forget system Low cost and reliable circuit Loud siren sound up to 60dB System can be armed / disarmed by owner only using key operated lock switch

**Applications:**

Museums

