Introduction

Security stands as a top concern during present times because unauthorized access to properties keeps rising across the globe. The Intruder Detection System features an innovative real-time security approach for intrusion detection and instant property owner alerting. A cost-effective security solution emerges from a union of Laser technology, Arduino Uno, LDR (Light Dependent Resistor) sensor and GSM SIM900A module.

A laser beam performs continuous observation of assigned monitoring locations through this system design. LDR sensor light intensity when any intruder came between the light and sensor the intensity changes due to which LDR sensor detect intruder. When the laser beam interrupts the Arduino Uno receives data from the LDR sensor through which it triggers an alert system. Once the GSM module activates the property owner receives a phone call or SMS notification about possible intrusion in their premises.

This security system has its main purpose in generating fast notifications for property owners about attempted break-ins which occur while they are absent from the location. The GSM SIM900A module integration strengthens system reliability since it enables operations through extensive ranges. Property owners can modify and scale up the system through Arduino Uno and LDR sensors because of their user-friendly nature. The Intruder Detection System achieves security enhancement goals through practicality, effective performance rates and its cost-effective nature. The device provides live tracking capabilities accompanied by warning notifications which allow owners to swiftly handle possible threats. Accessible technology integration enables this system to maintain user-friendliness while remaining effective for total safety enhancement.