

INTRUSION DETECTION AND ALERTING SYSTEM

ABSTRACT

Technology has changed the world. There is a huge growth in technology connected to almost every field. The pace and diversity of advancement are very rapid. Hence, new technology and techniques are coming up and are put to use as per the need. In such an advanced scenario, providing security to the home has also become a major point of concern.

Presently security cameras can be used for the same. But such cameras may be visible to intruders and there is a possibility that cameras may be damaged. And fires in the early detection and early warning are two important ways to extinguish the fire promptly and avoid great casualties and property loss. Therefore, the requirement of placing an intelligent fire alarm system is important within buildings, especially in buildings that contain many people inside or valuable belongings. Hence, in order to serve this purpose, there is a need to find an alternative secure, accurate and quick method. Hence a Home Security System is developed using Ultrasonic/PIR sensors, Flame Sensor and PI Camera. This system will detect the presence of Intruders or possible fire accidents and quickly alert the user by sending him an alert mail. This mail will also contain the Picture of the Intruder, captured by a Pi camera. Raspberry Pi is used to control the whole system.

This system can be installed at the main door of your home or office, and you can monitor it from anywhere in the world using your Email over the internet.

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