

## Home Security System



If you've ever been the victim of a burglary, you will undoubtedly appreciate the importance of a home security system, but even for those that didn't go through such a nasty experience, it should be quite clear that having a powerful home security system is essential today, when burglars are becoming more and more clever and witty.

This home security module is designed by using Ultrasonic technique. The device sends out repeating ultrasonic pulses that measure the reflection of any object they find moving.

Ultrasound motion detection sensors are characterized by small power consumption, suitable cost and high sensitivity. That is why this kind of sensor is commonly used in home, office and car security systems. The proposed sensor uses a single PSoC MCU together with few passive components. It is characterized by high sensitivity and resistance to various noise signals.

## Features:

1. LED Indicators
2. Two push buttons
3. Two Modes of Operation
  - a) Normal Mode --- Gives 6 seconds Buzzer
  - b) Special Mode --- Gives 2 minutes continues Buzzer
4. Microcontroller Based
5. Fit on any surface with simple screwing
6. Instant alarming
7. Small power consumption
8. Low cost
9. High sensitivity



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