

ABSTRACT

The current CCTV security system does not have a notification to the homeowners if someone approaches the yard, mostly after a new theft incident the homeowner checks the CCTV. This research makes a home security system using a PIR Sensor which if the PIR sensor reads a movement then the ESP32-CAM will capture an image, and can send a message via the Telegram application on the homeowner's Smart Phone, this research also uses a Buzzer to find out if the PIR reads a movement. The use of Light Emitting Diode (LED) is also needed if the PIR sensor does not detect movement eating LED flashes every one second. the advantage of this project is that the owner can immediately know if there is someone approaching a distance of 1 meter to 3 meters then this tool can send messages quickly if using Wi-Fi with an average delivery time of 3 seconds. With the test results of the theft detection system, it is hoped that it can contribute to the development of technology for more efficient theft detection.

Keywords: ESP32-CAM, Sensor PIR, Telegram Bot