

ABSTRACT

A surveillance camera is a tool that can carry out the monitoring process automatically which aims to monitor items in the room and outside the room. This tool is equipped with a Raspi camera for a PIR sensor as a video recorder and motion detector. In the current surveillance system, usually it can only monitor and view recordings that have been previously recorded, so it is still considered ineffective. The supervision that is carried out is needed, because many criminal acts of theft are now difficult to handle by the local security forces so that a surveillance device is needed that can monitor a place. Therefore this tool can be implemented in places where there are valuables. The goal is to make the room safer by using a camera and PIR sensor, so that it is able to display output in the form of recording and live streaming and make a remote control device using a smartphone and raspberry pi. The method used in this final project is the Waterfall Development Model, which consists of data collection, system development, implementation, testing and evaluation, then reporting. The result of this final project is that surveillance cameras are used to detect movement in the room. As long as the movement does not exceed the range and the resulting video will be saved in the available memory and the date and time has been named.

Keywords: Camera, PIR Sensor, Raspberry Pi, Smartphone, Telegram