

ABSTRACT

Security is an important factor in human life. Here also the privacy of a person at the time of the activity / activities is important. By stringing several tools, can be strung together a system that is able to detect any movement or object that is not recognized as an intruder in the room.

It has designed a system of monitoring motion of the object in the room using a laser beam with a short message service (SMS) using a microcontroller ATmega8535. This system can monitor the object came into the room by a laser beam and sent to the Wavecom modem via SMS Gateway. This system can be used for security systems. The system consists of a transmitter and receiver. On the transmitter consists of a laser, remote control and several other applications. LDR receiver circuit comprises a detector, the microcontroller ATmega8535, PC, Wavecom modems and cellular phones. When the laser beam is not detected by LDR which is connected to the microcontroller ports, so order a microcontroller to send SMS to the user.

The result of this system is a message sent to the user's mobile phone. From the results it can be concluded that this system works in accordance with the designs that have been created by sending a message depends on the network, LDR and lasers can be used as a detector. Here the remote control functions only for mengaktif or disable the device just to make it more effective. With this system, we can know whether there is a person / intruder, in a room.

Keywords: Webcam, Laser, ATmega8535, LDR, SMS (*short message service*), *Transmitter*, *Receiver*.