ABSTRACT

A room monitoring device based on PC (*Personal Computer*) for a security system is a device planned work automatically to monitoring change of situation of room by using a censor. The censor is arranged in electronic series which work if there is an object blocking up light witch is sent out by the censor, afterward the series process output of the censor, so that it produces output $\pm$ 5 Volt. The output is then sent to computer throught parallel port. The computer must have had software which is programmed to detect bit sent to the computer. The change of bit later will make camera record the object blocking up the censor as well as make alarm sound.

This room monitoring device is also designed to econimizing a database used to record by camera, because the camera will only record as necessary as we need. Namely if there is an object blocking up the censor and not to record constantly.

The final result of this project is indeed arranged as a room monitoring device for a security system application that is efficient from the aspect of cost and time. It is because this device works automatically without we necessarily sit continually in front of a monitor to control the changes happening and this device can save the use of database in the computer as a medium to saving of the camera record.

Keyword : Security System, Monitoring Device, Personal Computer, Censor, Software, Alarm, Database.