ABSTRACT

Nowdays, utilizing surviellence camera was very popular because of market needs and it has many usefull as a monitoring and as a part of security system at home, office, and manufactory. The existing surviellence camera using computer as a control system and as a storage so that need a high cost for implementation..

At this final project using of Raspberry Pi tipe B, PIR sensor, webcam Logitech C 170, External Hardisc, Raspbian operating system, and python programming. Automatic input data is performed by PIR sensor that will detected human around of range area frequently. Output 3.3- 5 volt (High) will be generated when sensor detected the human around of range area. Otherwise 0 volts output (Low) will be generated when sensor not detected the human around of range area. The input will be processing by Raspberry Pi using python programming that has made to a command to capture or not.

Implemetation outcome of this final project is a surveillance camera that will capture image in (.jpg) format when the input system detected human around of range. Capture result will save into external hardisc that integrated with system.

Key Word : **Surviellence Camera, USB Webcam, Raspbian, PIR sensor.**