TELE SPY

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ABSTRACT

 This project aspires at home surveillance system based on telephone. The system operates in two modes recording mode and security mode. In security mode if the motion sensor associated with the system in the home detects any intrusion, it will call a preloaded number using a mobile phone. If answered, it allows the user to listen the sounds in the home through the microphone of mobile phone kept in particular place, So that the user can decide its friend or foe. Then the system goes automatically to recording mode. In recording mode all telephone calls are recorded in a tape recorder when the telephone handset is lifted.

The system has three main circuits intrusion detecting circuit, calling circuit and walkman turn on & off circuit. When the PIR sensor associated with the intrusion detecting circuit detects any intrusion it sends an active low signal to the microcontroller PIC (16F877A). The PIC which is programmed using Micro C then responds by sending AT calling command along with the preloaded number to the mobile phone which has data communication input/output connected through the RS232 communication. In recording mode, Reed switch is attached below the handset near hook switch of the telephone. When the handset is lifted the reed switch will close completing the circuit because of the absence of magnetic field by the handset hence microcontroller send active low/high signal to relay circuit to switch on/off the walkman.

The project proposed has been brought out thriving to meet the objectives and furthermore the system was carried out various test runs to verify its validity and its results. The project was successfully implemented on the board with some additional user interface device. Moreover this design can be enhanced by recording all calls in CD or DVD player instead of tape cassette. Fire sensor can be put in to this system if the sensor is activated text alert message will be sent to the user number.

Key words: PIR sensor, PIC, AT commands, RS232, Reed switch, Hook switch