Automatic Monitoring System Based on Arduino

Liu, Ziqian (School: Yongzhou No.4 Senior High School)

In today's society, surveillance video is widely used with the enhancement of security awareness. As the capacity of the monitoring device is limited, the previous monitoring content will be overwritten at intervals. When the owner notices the goods are stolen, he may not be able to access the surveillance video of the incident. To solve this problem, it is necessary to improve the existing monitoring system. The automatic monitoring system based on Arduino is a video system with Arduino Mega 2560 as the core, combined with display screen, sensor and Internet of Things (IoT) module. The system can better cope with the needs of daily life, using photoelectric sensors, automatically adjust the working state of the camera to form efficient monitoring. In other words, the camera will be turned on to shoot video evidence only when someone enters the room abnormally. When no one is in the scene, the camera will be turned off and the whole system is in a low-power state. At the same time, the IoT module is used to transfer the state of the room to the mobile phone, and the user can adjust the system mode on the mobile phone, which makes the system have the function of human-computer interaction. Through the energy consumption calculation in the actual scene, the automatic monitoring system based on Arduino has the advantages of low-power consumption, high efficiency and intelligence compared with the traditional monitoring system, which can help the existing monitoring system to get better development.

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