

Research of Intelligent Video Surveillance System Based on the 3G Technology

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Abstract. Face to the questions in the traditional video monitoring system, this paper proposed the intelligent video surveillance system based on the 3G technology, developed by the embedded system. The system can realize the information transmitted through the 3G network. And the system has the function of remote real-time audio monitoring, remote viewing and download the video data acquisition, and message security alarm.

Introduction

As the people's security consciousness gradually improved, more and more places start using video monitoring system, video surveillance as the most effective means in security system, is used in all areas of our life. Video surveillance system is from the first generation analog control system, to develop part of digital system of the second generation, now it evolves to the present fully digital system of third generation. In the course of evolution, while greatly improving the system structure and system equipment, some factors cannot change due to being restricted. For example, it is more dependents on the manual to interpret the content of video in the traditional video surveillance system. This leads a lot of manpower used, material resource is wasted. At the same time, many limitations in the traditional wired real-time video monitoring system of cable transmission, such as wiring maintenance difficult, tedious, complicated and other shortcomings, makes cable real time monitoring system has been greatly restricted^[1]. As the large-scale construction and commercially available of 3G networks in our country, the video monitoring gradually get rid of the limit of time and space, realize long distance and real-time video transmission. Video signal transmission quality has greatly improved since supporting the 2Mbps high bandwidth, makes it is possible at any time, anywhere, on-demand video monitoring.

3G Technology Overview

The 3G technology has the following characteristics: ① high speed data transmission rate. The most obvious difference is that 3G can provide a faster data transfer rate compared with 2G, so that the "broadband" movement, which makes mobile information business based on the wireless broadband come into reality. ② it supports the seamless link of network. The third generation mobile communication system will be a system of global coverage and used, a global standard, so that any time, any place, any communication between people become possible, and can be used with a mobile phone to realize global roaming. ③ The high spectrum efficiency, high quality, low cost, high security features.

Overview of intelligent video surveillance

Intelligent video surveillance is a new application direction in the field of computer vision in recent years. It is based on the digital, networked and intelligent, detects, locates, tracks and recognizes the moving target by video analysis algorithms for dynamic scenes in the moving target, then analyzes the behavior and interaction relationship. Field situation is evaluated according to set rules to, and alarm is made to abnormal events, monitor scene artificial analysis is changed to automatic analysis, a lot of

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