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Original video after analog-digital conversion will generally take two paths compressed or uncompressed. A large amount of data in the original video analog to digital conversion, it must be compressed to the IP network transport, so in the ip video surveillance systems such as video and audio signals are compressed, the current video compression algorithms regardless of the merits of belong to lossy compression. The video quality loss is difficult to promote the importance of IP standard-definition video system, as long as the face of the decoded analog video and encoded video to do a comparison, will see the difference between the two. Of course, if the compression algorithm is not too bad, even after the high-definition video compression and decompression are usually better than standard definition analog video, thin dead camel end than the horse.

Mainstream h 264 ip camera algorithm require a higher performance of the hardware encoding and decoding equipment, encoding and decoding equipment can not meet the requirements for encoding and decoding time will increase, which will further delay of video. Delay manipulation first will bring great inconvenience to the user experience, minimal bandwidth control signaling compression, relative to the video, that the control command is a real-time video delay in the IP system is a second , front dome, PTZ control command is issued when the user has to respond to PTZ command to start the rotation, but one seconds later, turn the mini ip camera to get video to the user to see at this very moment, the user will think that the ball machine did not turn and continue to send PTZ yards, results or will result in front-end PTZ out of control, it is difficult to accurately locate. If the network environment is very poor, then the point of the PTZ command is likely to be lost, so that the front of the fast ball really can not receive commands. In short, the monitoring of the delay is an important factor to restrict IP video surveillance system development, in some applications need to monitor high-speed moving objects or higher on the real-time requirements, such a delay is unacceptable. IP delay defects in a long time in the future are difficult to be resolved.

The open nature of the ip control system is a double-edged sword, great risks bring great convenience for the user at the same time as the monitoring system. IP monitoring system, the video encoder or ip camera is often on the installation of outside the field of front-end, the video stream via Optical and other equipment to transmit to the monitoring center network, the signal transmission path of the IP system is open to anyone in theory may enter into a monitoring system of transmission network, and through this way to upload the virus file, namely, will monitor the network to cause great harm, leading to the collapse of the system.

With the gradual promotion of the Web IP Camerasystem, more and more professionals noted that the security of the IP system. IP is more mature and is also very common technology, the development of anti-virus technology often lags behind the development of viruses, so high security requirements for municipal or public security project, the security of the IP surveillance system in the foreseeable the future would be a serious hazard.

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