

## **What is IP Video and Network Video Recording?**

Most computer networks today are based on IP, or Internet Protocol, communication. IP Video applications make use of the same information technology as do most other network-based applications. Digital IP Video is captured by network connected cameras and is transmitted over wired or wireless LAN, WAN or Internet networks. IP Video Corporation solutions enable comprehensive video management, including monitoring, recording, playback, and analysis. Use of the standard IP protocol enables video integration with access control, facility management system, or other database applications.

## **Does an IP Video system completely replace my existing CCTV system?**

It certainly can, however, it doesn't have to. There are a number of ways in which a DynaView IP Video system can preserve much of your existing investment. The output from analog video cameras can be converted to a digital IP transmission by connecting a small video server device in the transmission line. This can result in a system utilizing a mix of analog and IP cameras and devices. You should, however, keep in mind that IP video cameras, in general, can provide a far superior image quality. The quality of the captured images becomes critically important once a security event occurs and evidence is required.

## **Where is an IP Video System best suited?**

In actuality, it might very well be easier to discuss where a DynaView IP Video system doesn't fit. Since there are so many compelling advantages of the IP Video technology, including its scalability, remote monitoring capability, redundancy, and flexibility of installation, it will fit the requirements of many video applications.

## **What are good applications for IP Video?**

Educational Institutions: Remote monitoring of playgrounds, recreational areas, hallways, and classrooms, can discourage behavioral problems while providing security.

Railroads: Remote monitoring of passenger railway facilities, freight yards, tracks, and crossings.

Highways: Monitor major, or problem, intersections.

Airports: Monitor and provide security for terminals and passenger areas, monitor activity in restricted areas, monitor and record aircraft and vehicle movement, record ticket counter areas.

Banking: Provide centralized monitoring and security of main and branch offices, ATMs, and drive-through tellers.

Government Facilities: Remote monitoring and recording of secure facilities. Integrate video with access control and facilities management systems.

Retail: Provide security and remote monitoring for the safety of employees and customers. Monitor and record as part of a loss reduction program.

Industry: Monitoring and record manufacturing processes for quality assurance and product liability concerns. Record stock movement integrated with logistic, warehouse and stock control systems.

## **What is the growth of the IP Video Market?**

It is certainly fair to say that the current IP Video market share is only a small portion of the total video security market. Network cameras are the fastest growing product category today and a number of market analysts are predicting that IP Video will be over half of the video surveillance market by 2007. There are several factors regarding the adoption rate of IP Video technology.

## **Why the confusion between IP-Video and DVRs?**

While IP Video technology is not significantly complex, it will move the administration and support of the systems from facility management personnel to IT organizations. IP Video technology is confused, by many, with Digital Video Recorders. Remember that analog cameras are connected through individual coax cables to DVRs which record and playback analog images. IP Video technology stores motion JPEG image files that can be integrated with other applications and software systems. Also, don't discount the realization that there are hundreds of manufacturers, installers, integrators, and end-user organizations who have a vested interest in maintaining the DVR as the prevailing technology.

## **What is the reality of DVRs?**

-- DVRs are not an all-digital networked technology.

-- Analog cables are very expensive to run and can distort image quality.

-- The DVR is not the next step in the development of CCTV technology, it is outdated and is truly only an attempt to stretch the live cycle of analog CCTV.

## **What are the true strengths of DynaView IP Video?**

- IP-Video is based on the strong and mature IT technology, which most companies already have the internal organization and skills required to administer and maintain.
- The numbers of IP-Video installations is growing quickly, and as the number of IP-Video integrators and dealers increases we will witness an even more rapid transition to IP-Video.
- IP-Surveillance scales from one to thousands of cameras in single camera increments.
- The parameters of each and every camera are controlled independently of other cameras.
- A single type of network (IP) connects, controls, and manages your entire enterprise for data, video, voice, and others, thereby reducing the total cost of ownership.
- Remote accessibility to any camera's video stream, or recorded images, can be securely viewed from any location around the world.
- DynaView SmartAlarm capabilities provide for automated motion detection, event triggers, sensor input, and control outputs, that can change frame rates, forward messages, and send video, to a designated individual, device, or system.
- The use of industry standard network, servers, and storage devices enable DynaView users to apply the best in breed while designing their surveillance and monitoring system rather than being locked into a single vendor.

### **Temporary Cameras**

DynaView's IP Video technology permits easy temporary installation of cameras anywhere the network is accessible. If a special event requires extra security or a theft requires temporary cameras to catch a thief, DynaView makes it very simple.

### **Use Existing Network**

DynaView can utilize any existing IP network or a separate dedicated network or both. DVR's require dedicated coaxial cable (and perhaps control cable) runs for every single camera.

### **Easy Scalability**

A DynaView system can be scaled by adding licenses for more cameras or adding extra processing power for added performance on existing cameras. DVR's cannot be scaled at all.

### **Multiple Viewing**

Video from a DVR can be viewed only through the unit itself. DynaView allows the flexibility of multiple remote viewers through the system as well as remote network viewing direct from each IP camera or video server.

### **Integration**

DynaView provides an open control and video architecture which allow integration with various types of access control systems and industrial management tools. Video can be provided with the form of standard JPG images that can be displayed on the Internet or within other applications. DVR's are generally closed systems with proprietary video formats.

### **MegaPixel Cameras**

DVR's are limited to the performance of proprietary video capture cards. DynaView IP Video takes advantage for the latest IP enabled cameras with 1, 2 and 3 megapixel resolution as well as special features such as IPIX 360 degree viewing. DVR's are not future proof and cannot provide these features.

### **Power Over Ethernet**

DynaView can take advantage of industry standard power over Ethernet (POE) technology to reduce installation costs and allow a central UPS to power many cameras.

### **Server relocation**

Once a DVR central viewing console is in place it is nearly impossible to relocate even within the same building. Having individual coax wires from every camera location could be cost prohibitive if not totally impractical to reroute. With a digital DynaView system just pick-up the console equipment move it to it's new location and connect it to the network and you are back in operation.

## **Stored Image Quality**

DVR systems generally provide a much lower quality recorded image than what is viewed on the monitor. Since the viewed images are a result of a direct analog connection to the monitor they are of therefore of a reasonable quality. However, the images sent to the DVR's hard drive for archiving, are first converted and compressed resulting in such poor quality that they are often unuseable for evidence. The digital video from an IP camera are send to the monitor and storage server simultaneously and therefore of identical quality. DynaView is truly a "what you see, is what you get" video surveillance and management system.