

網路攝影機透視

摘自紐約時報



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JPEG COMPRESSION CHIP

Receives the digital signal from the imaging sensor system and compresses it into a JPEG-for mat image for faster transmission. The degree of compression determines image quality, file size and frame rate; less compression produces bet – ter image quality but larger file sizes and slower frame rates.

" IRIS CONTROL BOARD

Controls the lens aperture setting. The amount of light that reaches the image sensor must be controlled because too much light can damage it by overloading its processing capacity.

VIDEO DISPLAY CHIP Receives the image data from the CCD (via the amplifier and converter) and sends it on to the JPEG compression chip.

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Circuits

HOW IT WORKS

Fooling security systems always seems

to work in Hollywood. But in real life, it's

not so easy these days. Not only are

surveillance cameras more common in this

era of increased concern about security, but

HERNET CONTROLLER

Detects network settings and

transmits data to the network

ux-based "comp

on a chip" that c

they are also much more sophisticated.

THURSDAY, APRIL 24, 2003

Such systems no longer depend on a

limited number of analog cameras with

dedicated fiber optic wiring and banks of

monitors connected to video recorders.

Today, so-called network cameras use

digital images, which can be easily stored

Accepts direct current power.

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Online, All the Time, an All-Seeing Surveillance System

By JEFFREY SELINGO

N the 2001 remake of the film "Ocean's Eleven," a band of thieves switches surveillance cameras pointed at a Las Vegas casino's safe to a recorded image of a replica safe that they have built in a nearby warehouse. By the time casino officials discover that the safe they are monitoring is not the real one, the thieves are well on their way to making off with \$150 million.

Instantly Before Your Eyes

Tiny digital video cameras can se rectly to the Internet. Such came

A chip called a cl ing the sity of light ccn CIRCUIT BOARD CONNECTOR PIN es the digital signal f gnai from the imaging sen-esses it into a JPEG-for ansmission. The degree of es image quality, file size tem and comp age for faster tr file sizes and s on lens with fe h of 3.5 to 8 n ata from the CCD 1/1,4 to 1 light that reaches the image sensor must be con trolled because too much light can damage it by it on to the JPEG comp et service igh a router and a highspeed m nodem to an in w them on the Opens and closes the iris ac ding to ins

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and manipulated on a computer server and monitored from remote locations by using the Internet. Tiny cameras can be added to a security system, sometimes for temporary use, by simply hooking them up to a computer network. It is even possible to route video from analog cameras through servers that turn their images into digital pictures.

"Two PC servers can now do all the recording that used to take 100 VCR's," said Fredrik Nilsson, director of business development for Axis Communications, a Swedish company that sells network video cameras.

The systems have become popular with school officials and managers of shopping malls and convention centers and with local and state transportation departments, which provide live pictures that motorists can view over the Internet before heading out. "The biggest advantage is that it uses the existing infrastructure." Mr. Nilsson said. "It's as easy as plugging the camera into a computer network."

But the ease with which the high-tech surveillance cameras can be set up and used worries people who are concerned about the invasion of privacy. The Washington Police Department came under fire for a system it purchased from Axis that enables it to monitor activities through a network of cameras mounted at busy intersections, in the subway system and at tourist sites like the National Mall.

The system, which is activated during heightened terror alerts, allows the authorities to manipulate the cameras so they can, for instance, pan and zoom in on activity they consider suspicious. The remote access also means that officers can view images on computer monitors installed in squad cars.

Axis also supplied cameras to the Salt Palace Convention Center in Salt Lake City for the 2002 Winter Olympics. Bart Allen, director of operations at the convention center, which continues to use the system, said the cameras were economical and improved security. With the center's old analog system, he said, security guards could record the images from only 5 of the 80 cameras located around the center at any one time. "So if something happened in an area we weren't recording, we didn't have a record of it," Mr. Allen said. Now, images at all 80 locations can be recorded.

What's more, because cameras can easily be added or moved anywhere a network connection is available, the system can cover much more ground than an analog system. If a vendor brings valuable equipment to a trade show at the convention center, for example, Mr. Allen said, he can set up a camera to watch it. Network cameras can be programmed to record only when there is movement in the field of vision so that no computer memory is wasted on monitoring empty rooms. And it is easier to find a specific moment on a digitized video, as anyone who has tried to locate a specific scene in a movie on a DVD or a videotape knows.

The new system has already foiled burglaries at the convention center, Mr. Allen said. "We put a camera on a bunch of laptops in a room and we ended up catching one of our own security guards helping himself to a few of them," he said. "Big Brother is everywhere,"

Sean Grogan, vice president for operations for Springfield Food Court, a company that operates food courts in shopping malls and airports, said he was attracted to the network cameras because they can store a digital archive at little cost. With his old analog system, he had a videotape for each day of the week. Each Tuesday, for instance, he taped over the previous Tuesday's tape.

When the company was sued recently by an employee who claimed to have fallen at work four months earlier, Mr. Grogan was able to find the digital images from that day on his computer server. It showed that no one had fallen, he said. "If we had the old system," he said, "it would have been my word against theirs."

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