

Reproducing extremely clear and detailed images – Sony intelligent mini-dome cameras provide a high-level of security anytime, anywhere.



Background

The PC ONE Showroom is best known for being the largest supplier of office automation equipment in Doha, Qatar.

Client needs/Challenges

The PC ONE Showroom has a capacity of more than 500 customers, and is essentially aimed at electro-technical equipment providers.

However, the current security system in operation at the PC ONE Showroom didn't meet the company's security requirements, and therefore needed to be replaced with a more contemporary and advanced intelligent Network Video Monitoring (NVM) system. The new NVM system also needed to have the option of being controlled from various off-site locations, so that the manager could view the surveillance from wherever he is based. The PC ONE Main Showroom therefore required the most technically advanced, yet economical solution possible. In addition the system had to cover areas such as the basement, cash counters and other internal areas of the main showroom.

The Sony solution

In response to the PC ONE Showroom requirements, Sony provided a system consisting of 19 Sony SNC-DF40P cameras, to cover all the divisions, and the Sony NSR-50 (Network Surveillance Recorder) Controller. The SNC-DF40P cameras belong to the IPELA™ range of visual communication products, enabling images to be sent and monitored through a standard IP network.

The system was also designed to record IP digital video signals. The composite video is stored on a main NSR-50 Controller, which captures the images from each camera. The IP signal is sent to the control room by means of an Ethernet network.

'In effect, the recording system is redundant, as even if the digital video recorder fails we can still record from any of the cameras back to the control room,' commented Mr. Joman, technical services manager at PC ONE Main Showroom.

Products:

- Sony SNC-DF40P cameras
- Sony NSR-50 Server Controller
- RM-NS 10- Server Keyboard

"It is a flexible and reliable system that thanks to the SNC-DF40P cameras' IP control, enables us to easily store and save the footage, and access each and every camera on an IP platform from remote locations. We are therefore able to carry out operations which are far more sophisticated than any other system on the market."
Mr. Joman, Technical Services Manager,
PC ONE Main Showroom.

The Implementation: Satisfaction guaranteed

The Sony NSR-50 Controller is able to simultaneously control the monitoring, recording and motion detection sensors of all the cameras in the system, which could be expanded up to a maximum of 32 cameras without additional investment.

Transmission over IP means that the management of the NVM system can take place at the central computer in the control room. At the PC ONE Showroom, it is the duty security officers who supervise the system from a main plasma monitor, without the need for additional multiplexers or other dedicated systems.

The SNC-DF40P series consists of Network mini-dome cameras. Its integral dome enclosure means that the cameras are both easy to install and an unobtrusive addition to any environment. MPEG-4 compression with Adaptive Rate Control ensures stable, high quality pictures with network-efficient bandwidth requirements, delivering high frame rates up to 30 fps at QVGA resolution via the 1/4 type IT Super HAD CCD sensor.

The excellent image quality that the cameras produce is due to the high-resolution CCD sensor. JPEG compression can be set to 18 fps with VGA resolution. In addition the SNC-DF40P distinguishes itself from most other cameras on the market by its output connector to analogue composite video.

The cameras also support audio transmission from an external line input, and the in-built vari-focal lens provides optimum coverage of any desired area. Smart vector motion detection provides more efficient activity detection with reduced risk of false triggers.

Advantages for the client: Speed, value for money, quality

'The quality of the image recorded by each camera can be individually configured, according to the requirements of each location. For example we are currently using maximum quality for the basement and the cash counter cameras and medium resolution for the other indoor cameras,' said Mr. Joman.

'In terms of storage capacity, as the NSR-50 Controller records the images from all cameras sequentially, just over one frame per second is taken from each source,' he added.

One of the chief advantages of the NSR-50 Controller is the possibility to integrate with external Network Attached Storage (NAS). According to user requirements, both the number of cameras and the amount of storage can be increased, therefore providing complete flexibility.

The PC ONE NVM system is currently configured so that the NSR-50 Controller and external NAS server is continuously recording and when the disks reach full capacity, an alarm is set off and the system automatically begins to overwrite. The system keeps recordings online for approximately four days.

The system has very advanced control functions, through an RM NS-10 Key Board, so any security officer on duty can access the available functions easily, such as all the live images taken by each camera, by just pressing the programmed one touch function keys. However, authorised users can access these functions remotely through a web browser.

'Only the security officers who are on duty at that time can view the images,' said Mr. Joman, 'I am the only user with authorisation to remotely access these images.'

Several months after the installation, the technical services manager made an assessment of the Sony products and system. He concluded, 'The installation more than meets the requirements. It is a strong, reliable and flexible system that, thanks to the SNC-DF40P cameras' IP control, enables us to easily carry out operations which are far more sophisticated than can be carried out by any other system on the market.'

In addition, the simplicity of the video-surveillance system's management and maintenance is greatly valued as this has cut learning and system up-keep times significantly.

'The security procedures and protocol of the building have not changed. Instead we have simply been able to give the PC ONE management a much more modern and efficient security system than the one it had previously,' Mr. Joman continued.

Sony: market leader

Transmission of images over IP is revolutionising the applications of remote security, surveillance and monitoring. As the parliament of Austria testifies, the Sony IPELA range of products not only means cost savings, easy installation and less maintenance but, furthermore, the IPELA monitoring solutions provide better management possibilities and offer greater versatility for a variety of applications.