

Toshiba:

from TV to CCTV

Toshiba's European consumer products manufacturing hub in Ernesettle, Plymouth produces 300,000 conventional, rear projection and flat panel televisions a year for the pan-European market. An internal review of their security provision highlighted some shortcomings and led to the installation of a new digital based CCTV system.

With 570 staff and a public footpath running the length of one site boundary to contend with, security on Toshiba's sprawling 20 acre site is of paramount importance.

In October last year the company undertook an internal review of their existing analogue-based CCTV system. This was proving incapable of providing sufficient coverage of the site with numerous blind spots creating unacceptable risks. There were concerns about image quality, a desire for monitoring points in each Gatehouse and for access to images across the company's local area network (LAN). In addition, Toshiba had plans to extend the site's facilities.

Neil Doe, Toshiba's Senior Manager Personnel and General Affairs, explains that in the light of these conclusions the next step was clear cut:

"Capturing incidents on the old system was more a matter of good fortune than anything and so I took the decision to replace the whole system with a modern solution, one more appropriate to the needs of a high technology company with considerable assets to protect. Obviously we're very familiar with digital technology and so the decision to go digital was itself straightforward."



Having devised a broad outline of Toshiba's requirement, Neil Doe sought a suitable local installer. "We were looking for someone at the cutting edge of CCTV technology," Neil explains. "I wanted to work with a company using the latest technology not one relying only on tried and tested solutions. The investment we're making has got to last and so investing in new products rather than legacy ones makes a great deal of sense. In Perspective CCTV Limited we found, a new, small but very enthusiastic company with which we have developed a very good rapport.."

TOSHIBA



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cameras (a combination of Dennard 2050 fully functional domes, Vista VPCM/H Protos 3 fixed colour/monochrome cameras suitable for effective 24 hour external surveillance, and Vista fixed colour internal mini domes (VFD4V9C).

The system is controlled from the company’s Main Gatehouse via a Vista joystick keyboard, depending on the cameras being viewed, with a duplicate monitoring facility situated in the subsidiary Reception Gatehouse. For security reasons, only the external cameras are monitored from these points.

Within the manufacturing plant the fixed mini domes cover particularly susceptible areas such as the company’s un-staffed reception and the corridors, restaurant and shop. Externally, colour/monochrome cameras effectively cover the whole of the site’s perimeter, off-site car parks and the company’s trailer park through day and night. The most sensitive area of the site, as with any manufacturing or distribution operation, is the company’s loading bay. At Toshiba this is also adjacent to a section of the perimeter that runs alongside a public footpath. As well as installing an extensive network of day/night cameras in this area, seven of which are assisted by additional infra-red lighting, Toshiba has also installed two Optex Redwall passive infrared (PIR) detectors to facilitate an element of event-driven CCTV. These PIR beams each have a range of 40m x 3m and are fixed to cover a long stretch of sensitive site perimeter. The moment one of these is broken by a subject reaching the perimeter fence, the appropriate fully functional dome camera reacts and positions itself to record the incident.



There is also monitoring access over a VDSL Broadband connection from the main Gatehouse to the company’s LAN. This enables remote users, currently the senior managers responsible for site security, to view images on their desktop PCs utilising licence free WaveReader software that is provided with the Vista Columbus Triplex™ DVR.

The new digital system comprises two 16 channel 320GB Vista Triplex™ Columbus (VC16Te-320) Digital Video Recorders (DVRs) working in conjunction with 31

Malcolm Carter, Business Development Manager for Perspective CCTV explains his selection of equipment for the project:

“As a company our philosophy is to recommend what we consider to be the best products available for the project at the time of installation. This is a very fast moving market and so our choice of equipment for a near identical project tomorrow may be subtly different. In particular there have been new developments in the dome marketplace. Also, Vista’s latest joystick keyboard recognises the Dennard dome protocols enabling security operators to have one less piece of kit on their desks.”

“Like many installers, Perspective CCTV majors on particular brands. In recording for instance, we focus on the Vista Columbus and Dallmeier. We see the Triplex™ functionality and the unit’s colour coded search function as particular strengths. In our local market these are strong differentiators for us.”

All the CCTV cameras and recording equipment at Toshiba was supplied by Norbain. “An excellent company from which we source 98% of all our equipment,” explains Malcolm Carter. “