



KBC Video Units Save Space & Fibre

North Middlesex University Hospital CCTV System

Background

The site that the North Middlesex University Hospital occupies was purchased in 1834 as a workhouse for the poor. The workhouse remained until 1938, and since the formation of the United Kingdom's National Health Service ten years later, a number of development plans have been proposed for the site. In some cases, they were part-implemented, which led to a disparate mix and layout of buildings. Finally, in 2007, part of the site was formally handed over to a multi-million pound re-development project.

The new hospital facilities opened on 1st June 2010. Included, is a new security system and a relocated control room that integrates the old system with the new.

Our Customer: Lee Security

(via Networks Centre)

End Customer: NHS Hospital Development Team

The Challenge

To provide a space and fibre-efficient transmission system that would allow the engineering team to relocate the CCTV control room from one of the old buildings into the new site (approximately 100m away), and integrate the old security system with a new one. The original system consisted of 114 cameras; the new one required an additional 250, locally connected on twisted pair. With plans to extend the system, the fibre transmission needed the capacity to expand. In addition, 'up-the-coax' units that were compatible with a wide range of camera manufacturers' equipment were required.

The Solution

With the old copper system already pushed to its limits, the installers relocated the hub from the existing site, and then connected to the new building via fibre. Our transmission solution for those 114 cameras comprised 29 x 4-channel video units, each over a single, multimode fibre. The design for the integrated system also included 2 x KBC video and bi-directional 3U chassis cards for the PTZ cameras, and 2 x KBC video and 'up-the-coax' chassis cards.

Outcome

The new control room now receives 114 static and 2 PTZ cameras on fibre, 2 video and 'up the coax' channels - also on fibre - plus 250 twisted pair connections for the new cameras. The entire transmission system uses just 33 fibres and each card unit takes up only one slot. With a solid, front panel that includes LED indicators for the installed cards, the KBC chassis keeps the front of the cabinet looking clean and professional. Fibre lock LEDs show fibre continuity at both ends of the link and all the cards and cable connections are made at the back.

The system operates smoothly and as far as the end user is concerned, the two systems are presented as one. With spare capacity for future expansion, Julio Pittelli from Lee Security explained why KBC was chosen,

"When we compared KBC to other transmission, it took up much less space and used less fibre - the dual video and data receiver cards saved us 10 fibres and 10 chassis slots." He added, "The technical and sales support from KBC was excellent."

