



Case Study

Project	Hospital
Installer	Video South
Product	SCX & SLX
Location	Southampton, UK



The Wessex Cardiothoracic Centre at Southampton University Hospital

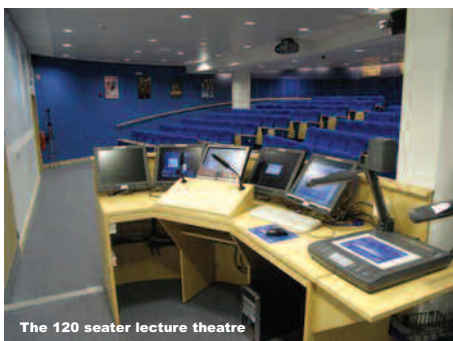
Specialist installer Video South chose Smart-e AV equipment to provide Southampton University Hospital with a unique solution for its new laboratories and education centre.

Telemedicine and medical video conferencing company, Video South chose Smart-e AV distribution equipment for the Wessex Cardiothoracic Centre, a prestigious new education centre within a new wing of the Southampton University Hospital.

The project, completed in early 2007, required an AV solution for five new catheter laboratories and an education centre located on a different floor, comprising four seminar rooms, a videoconference suite and a 120-seat lecture theatre. Video South's brief was to provide facilities in all these areas and a live procedure demonstration facility in the lecture theatre.

The challenge

The catheter labs. proved to be the most interesting challenge. The catheter (a long thin tube) is fed into patients' vessels under x-ray guidance, allowing various physical treatments to be delivered. The images produced have historically been in non-



The 120 seater lecture theatre

standard formats, high-resolution and refresh rate. These fluoro images are then accompanied by high-resolution ultrasound, camera images and SGA-type physiological displays. Remotely located students need access to all these different images to participate effectively in the procedure.

Alistair Holdoway from Video South said

"For each laboratory we were faced with transmitting feeds from several sources including two video cameras, 1125 line images at 110Hz in monochrome from the fluoro imaging, three or four 1600x1200 images from real time 3-D modelling, one or two SGA feeds and one ultrasound. Additionally we needed two way audio, camera control and image selection."



Screens allow students to view the catheter under x-ray guidance.

The solution

Smart-e's solution was chosen to shunt all the video around the various parts of the site. For every source in the laboratory we've got a Smart-e encoder bringing the feed into the Autopatch matrix via CAT 5 cabling - from that point we used standard connections. The signals from the Smart-e matrix are transmitted to an Extron multi-image video and VGA processor, whilst the primary user interface is a sophisticated AMX control.



Smart-e

Part of the attraction of Smart-e's equipment is its ability to transmit various video formats, allowing students to view standard video and high definition images on the same feed, it is even possible to display 3 separate feeds simultaneously. Another important benefit of Smart-e' equipment is that it uses CAT 5 (5e, 6, 7 and 8) structured cabling to transmit audio and visual signals, providing a robust network with superior transmission that is also quick and easy to install.



The hub is located in a control room



Procedures can be relayed to other locations allowing students to view the procedures live

A Solution for You?

Here at Smart-e we are committed to providing functional solutions to broadcasting high quality audio and video. With a product range covering extending, splitting and switching of all types of video, graphics and true stereo audio simply and effectively over Cat5/6/7/8 UTP cabling. To view the Smart-e range of products check out our website at www.smart-e.co.uk. Alternatively just give us a call for all product and pricing information.



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