



Case Study

Project	Education
Installer	AVM
Product	SNX-16x32
Location	UK

Royal College of Pathology



One of the three lecture theatres

Multi-space connection

A specially designed Smart-e SNX-16x32 matrix distributes all the audio, video, TV and PC transmissions at the new state-of-the-art Education Centre at the Royal College of Pathologists, South West London.

The installation, which was undertaken by Audio Visual Machines Limited (AVM), required 3 seminar rooms and 3 lecture theatres, located in different

flexible conference space with the ability to run concurrent meetings, lectures and briefings in multiple rooms, and also the ability to have overflow facility with full 'talk back' between spaces allowing Q&A between rooms for a truly interactive learning environment. The 'talk back' function is particularly advantageous for large scale events, where live question and answer sessions can be shared between the lecture theatres.



parts of the building, to have the ability to share information across all six spaces. The project and design had to be tailored to meet stringent requirements due to the listed status of the building. Flexibility was the key aim in distribution of content so that varying numbers of attendees to lectures and events could be located and seated in suitably sized rooms. Full interaction between rooms was another requirement so that delegates could interact with the lecturer whichever room was being used.

Each room can operate as a stand alone meeting room/lecture theatre with its own source equipment available locally, whilst any combination of rooms can be joined 'virtually' to create up to six linked meeting/lecture rooms. This gives the client a hugely

Bespoke Smart-e matrix

Located in the central hub, the bespoke Smart-e SNX-16x32+ matrix acts as the core, feeding all the PC, TV plus audio and video content, including video conferencing, to other parts of the Education Centre and meeting spaces, via CAT 6 structured cabling. A matrix in each of the theatres feeds incoming and local content from the core hub to a two-channel graphics processor, which is programmed to allow a



video image and a computer image to be displayed side-by-side on the projection screen. The delegate is able to view a presentation, for example PowerPoint, and also see a video picture of the presenter/lecturer from the far end theatre. The combined audio from microphones and presentation content from the lecturer is sent with the picture images.



Smart-e

Each room/theatre is equipped with a video conference camera and microphones, and its own source equipment housed in a credenza unit. Crestron control panels are located in each room for users to control their local environment and room system. Additionally, a Crestron e-control system is available to College technicians so they can manipulate the rooms to allow a chosen room/theatre to act as a master. Presets are loaded ready for the College technician to call up when a change of venue status is required. The content from the master room is sent via the Smart-e matrix and displayed in the other rooms.

The Smart-e matrix feeds video camera, voice and PC presentation content from a pre-selected room to a lecture capture system, allowing lectures to be recorded for future use and distribution.



About the Royal College of Pathology

The Royal College of Pathologists housed in prestigious premises in South West London, is a registered charity with nearly 9,000 members who work in hospital laboratories, universities and industry worldwide, to study the causes of disease and the ways in which disease processes affect the human body.

Established in 1962, the College provides public education to promote research in pathology, disseminates the results, promotes excellence in the practice of pathology and is responsible for maintaining standards through training, assessments, examinations and professional development.

The new Education Centre is part of a plan to become the first Royal Medical College to foster understanding between society and the medical



community by providing an integrated approach to education.

Smart-e equipment used

SNX-16x 32+ matrix

Matrix providing variable input and output configurations, the SNX-16x32 features 16 inputs and 32 outputs with RS232/422 and IR control options. It is HDTV compatible (1080p), distributes content up to 300m and accepts multiple input signals RGBHV, YPrPb, RGBS, Y/C and CVBS.

SLX-RX111 receivers x 32 units

The SLX-RX111 receiver combines the ease of 'plug and play' with discreet industry standard connectors transmitting video signals up to 100m from source device. The SLX-RX111 receives UXGA, HD, YPrPb and RGBS, YC, CVBS and Stereo Audio providing inline power, and IR passthrough.



SLX-TX111 transmitters x 16 units

A short-range transmitter for UXGA, HD, YPrPb and RGBS, YC, CVBS and Stereo Audio providing inline power, and IR passthrough.

SM-LED infra-red emitter x 2 units. Infra-red LED to remote control of source devices. SM-LED infra-red emitter.

SM-EYEN - IR receiver x 6 units

Narrow band infra-red receiver eye for 38Khz modulated signal. Good noise rejection, range 8-10 metres.

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