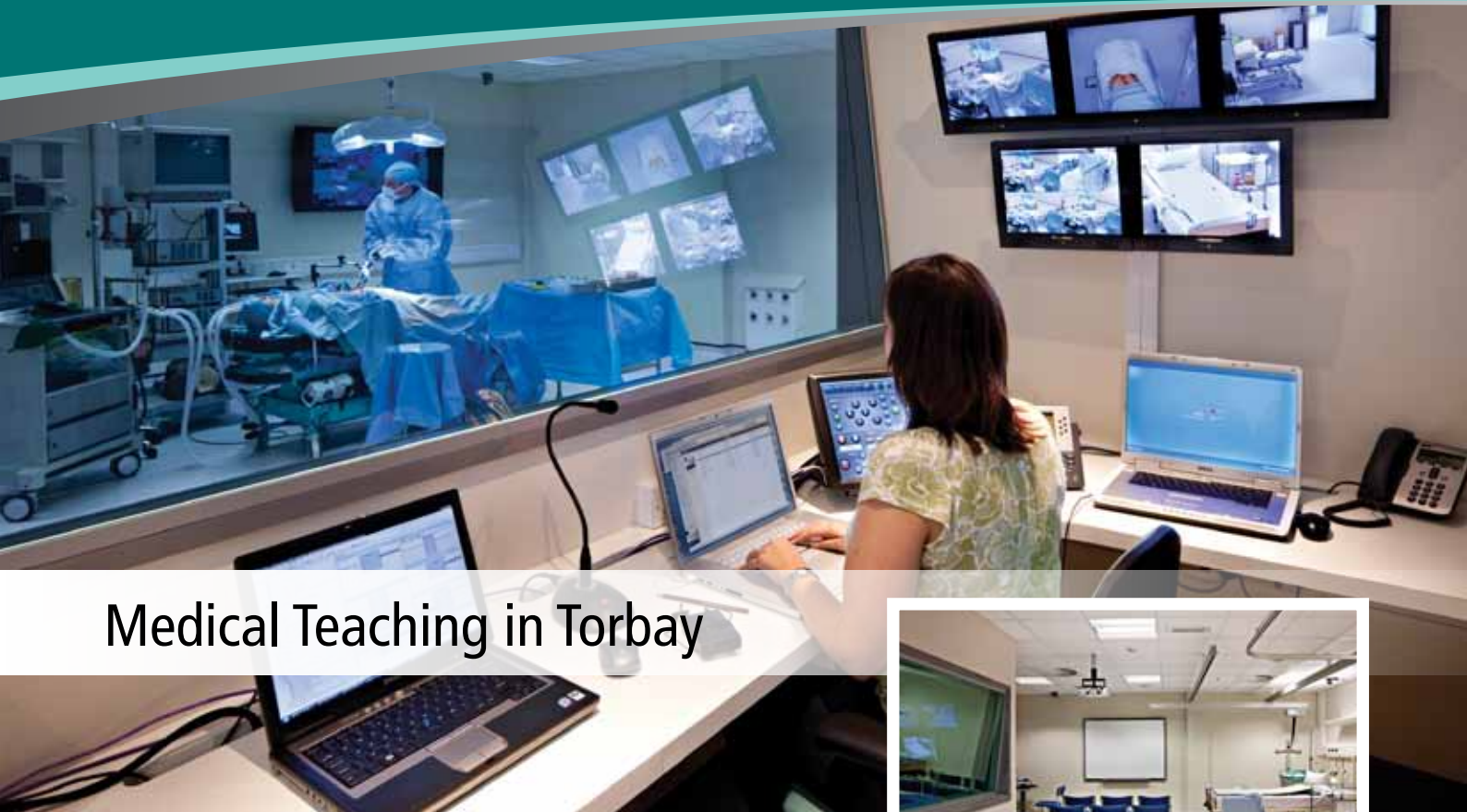


PROJECT PROFILE



Medical Teaching in Torbay



A Tailor Made System for the Special Needs of Medical Training

The Torbay Hospital facilities provide a completely integrated system consisting of eighteen linked interactive teaching spaces, centred around a simulated operating theatre and simulated ward.

DRV (now Electrosonic) has a long relationship with Torbay Hospital, having installed and maintained teaching facilities at the site for over ten years. DRV was involved from the early stages of planning for the new centre, working with medical teaching consultants MedicVision to develop a design for the leading edge audio-visual systems within the centre.

The scope of work included digital signage, a room booking system, and fully integrated multimedia systems for teaching and presentation within a central technician-operated AV Control Room, a Simulated Operating Theatre, a Simulated Ward, a Lecture Theatre, a Briefing Room, Procedural Skills Rooms, and Tutorial and Meeting Rooms.

The system allows fully interactive anaesthetist training scenarios to be run and recorded, and then

played back for debriefing. Users have the ability to monitor, interact with, record and replay training sessions throughout the building, to link to outside sites via video conferencing, and to master recordings of these events to Windows Media for webcasting and video-on-demand.

The systems installed at the Horizon Centre are tailored to the special needs of medical training. The main task of the system is to record the simulation activities in a digital format from multiple camera locations as well as any biometric information derived from high fidelity mannequins. Recordings are synchronized to allow common event stamping of the recording media by the operator.

The recordings can be played back in the debriefing room and other rooms as selected by touch screen operation, and displayed via a video projector or LCD monitor.

The system is capable of displaying multiple simultaneous images (up to four) from each of the



recorded camera locations. The instructor can replay the activities using either conventional video control (start, stop, play, rewind, fast forward, cue and review) or by selecting an event stamp.

Wireless headsets provide intercom between the control room and the instructors in the training rooms. Ceiling loudspeakers are provided in the rooms for operator's announcements and audio accompanying video.

On the ground floor there are training rooms that are more conventional. These all have audio-visual connectivity to the main system. The seminar rooms and lecture room are fitted with cameras and video conferencing capabilities. All video conferencing is IP based.



External view of The Horizon Centre.