



Li Ka Shing Center for Learning and Knowledge

Stanford University School of Medicine invests in innovative audio visual technologies to provide advanced learning opportunities for its medical students.



The Li Ka Shing Center for Learning and Knowledge at the Stanford School of Medicine is a new multi-story building that is considered one of the most technologically advanced buildings on the university campus. Health AV provided AV systems for:



- one large three-way divisible conference center,
- two large lecture halls,
- six seminar classrooms,
- one student lounge,
- one executive boardroom,
- the Immersive Learning Center, and
- a building-wide audio and video capture system that incorporates over 100 ceiling-mounted video cameras and microphones.



The Immersive Learning Center, located on the ground floor, is a world-class medical simulation facility. It includes two control rooms which are used to monitor and facilitate simulated surgeries in two large mock operating rooms. The simulated patient care facility includes ten patient exam rooms and two acute care rooms. All rooms are equipped with ceiling-mounted cameras and microphones which feed to a dedicated control room. The control room operators are responsible for creating medical scenarios via simulation mannequins and actors placed in the rooms. During the simulated surgeries or patient care activities, the interactions with the students are recorded and stored for future debriefings. These debriefings take place in one of the four debriefing rooms or two studio classrooms.



A significant investment was made to develop a building-wide video capture and control system that allows for centralized monitoring and control, and the automatic and user-initiated recording from any of the conference rooms or classrooms. On average, over 120 hours of video per month are recorded and distributed. The four control rooms use a custom-developed building-wide AMX control system, and a large fiber-optic distribution and routing system to route, record, or distribute via video conference. Systems operators have the ability to take over control of any of the systems in any room from virtually anywhere via a network connection or from one of the control rooms. The project received first place at the 2011 AMX Innovation Awards for the efficient use of control systems to monitor and manage systems in the building.

