



Automating AV Provisioning in a large Canadian University

Success Story

with AV over IP Technology



The HEC AV department awarded the tender to an impressive group of AV professionals consisting of an integrator and various AV equipment manufacturers, including MuxLab, in order to offer a complete state of the art system to HEC.

“MuxLab is proud and honored to have been selected as the provider of AV over IP connectivity equipment responsible to extend, interconnect and switch AV source and display devices in a simple and efficient manner”, said Daniel Assaraf, President of MuxLab. “Our technology is contributing to the improvement of tomorrow’s educational institutions today.”

HEC Montreal is a large Canadian university specializing in business management administration and research. The university has a long standing reputation for educating highly qualified future business managers since 1907.

The HEC is continuously searching for high level educators and latest educational tools in order to enhance the efficiency and depth of the learning experience for its students.

Recently the university put forward a plan to improve lectures in the classroom through the use of enhanced Audio/Video (AV) aids, and turned to the AV community via a tender allowing integrators and manufacturers the opportunity to offer best in class technology solutions to meet the HEC stringent requirements.

MuxLab’s AV over IP product family of connectivity products are being used to extend displays up to 100m from source equipment, and to switch any source to any display within a classroom environment, with the added benefit of being able to switch between classrooms for remote lectures. HEC is planning a multiple phase approach with over 80 classrooms. Phase 1 will support over 30 classrooms.



Complete AV over IP Rackmount Solution

MuxLab's AV over IP Transmitters (part # 500753-TX) connect to each AV source device and to the schools Ethernet LAN, in order to transport the AV signal over the IP network in an efficient and flexible manner. MuxLab's AV over IP Receivers (part # 500753-RX) connect to each AV destination display and to the Ethernet LAN, in order to pick up the transported signal from the IP network and send it to the various displays.

The AV signal on any MuxLab Transmitter sent over the IP Network can be received by any MuxLab Receiver, forming an any-to-any virtual matrix between MuxLab Transmitters and Receivers. AV signals may also be multicast from one Transmitter to many Receivers. In addition HEC can scale up or down the number of MuxLab Transmitters and Receivers at any time, and to practically any virtual matrix size, supporting hundreds of devices

The system solution for each individual classroom consists of a control station located at the teachers desk at the head of the classroom, and allows the professor to easily select at the touch of a finger which of five AV sources is sent to which display. The control station sends commands to the MuxLab AV over IP Transmitters and Receivers to instantly execute the connection change being requested.

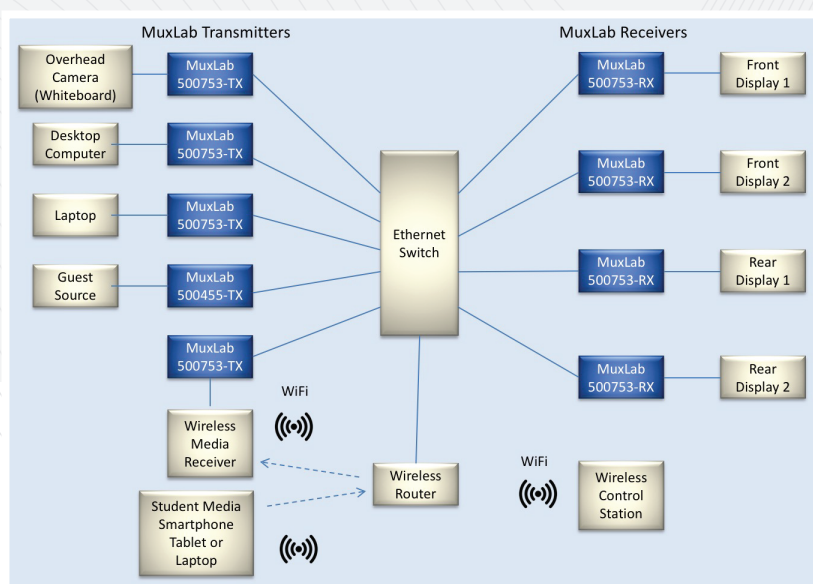


monitors at the rear. The audio is transported to distributed speakers.

The four monitors are independent of each other and may be individually switched to different source material, or to the same material, depending on lecture content and number of lecturers.

The AV source material is presented to the students over two monitors at the front of the classroom and to the instructor via two

HEC Montreal is truly modernizing the classroom with the aid of the latest AV technologies available from MuxLab and the other partners, allowing the classroom to be a flexible and adaptable presentation tool for both professors and students alike.



HEC AV over IP Application Diagram

MuxLab offers a complete line of AV over IP solutions, including:

HDMI over IP Extender Kit with PoE (500752)	HDMI/RS232 over IP Extender Kit with PoE (500753)
Video Wall over IP Extender Kit with PoE (500754)	AUDIO/RS232 over IP PoE Transceiver (500755)
3G-SDI/RS232 over IP Extender Kit with PoE (500756)	HDMI over IP H.264 Extender Kit with PoE (500757)
HDMI 4K over IP PoE Extender Kit (500758)	Video Wall 4K over IP PoE Extender Kit (500759)

Contact MuxLab for further details on these and other AV connectivity solutions.

About MuxLab: MuxLab Inc. is a leading designer of value-added connectivity hardware allowing Digital AV, Broadcast and CCTV equipment to be connected via cost-effective UTP. For over 30 years, the brand has been synonymous with quality, performance and reliability.

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