



Case Study: Education

Hong Kong University Case Study

University of Hong Kong Installs Tesira® in New 750-Seat, Multi-Purpose Grand Hall

Established in 1911, the University of Hong Kong (HKU) is the territory's oldest institute of higher learning. Today, HKU is internationally recognized as a comprehensive, research-focused university, with many scholarly and research achievements to its name. HKU strives to attract and nurture outstanding scholars from around the world through excellence and innovation in teaching, learning, research, and knowledge exchange. Their students strive to contribute to the advancement of society by becoming leaders of regional and global significance.



Biamp is our go-to DSP provider

and Tesira is by far and away the only choice for quality, future-proofed audio.

-Roy Lo
China-Tech Engineering Co., Ltd

THE CHALLENGE

In 2012 Hong Kong officials announced a new education policy, prompting HKU to expand its curriculum and launch a 4-year undergraduate program. In order to accommodate the inevitable population growth of the campus with incoming undergraduates, staff, and faculty, HKU needed to expand its facilities.

The Grand Hall in the Lee Shau Kee Lecture Centre is a 750-seat presentation space that needed to accommodate a wide range of functions: cinema screenings, speeches and lectures, musical performances, professional presentations, and videoconferences.



HKU probably won't need to take advantage of the 420x420 (AVB) channel count, but if they need to, Tesira will get them where they need to go.

*-David King, Senior Consultant
Shen, Milsom & Wilke*

THE SOLUTION

Designer Shen, Milsom & Wilke and integrator China-Tech Engineering Co., Ltd, decided on a system that allowed for a high channel count, guaranteed QoS (quality of service), fast installation time, and easy set-up for the Grand Hall. The only solution that could accommodate the varied audio requirements of the space was an AVB (Audio Video Bridging) DSP. Biamp Tesira® was selected as the system solution.

The Tesira system uses AVB to transport low latency, time-synchronized mixed media data streams (audio, video, email, etc.) over the HKU Ethernet networks. The HKU technical team can control and monitor the Tesira DSP by using a rack-mounted PC in their control room. The HKU Tesira system connects with every piece of third-party equipment in the Hall, including digital consoles, loudspeakers, control software, and microphones. Using easily customizable presets, every aspect of the audio experience can be conveniently and effectively controlled and monitored from a single location or remotely via PC.



SYSTEM SPECIFICS

Components:

(2) SERVER-IO

- (2) AVB-1 Cards
- (1) SCM-1 Card
- (2) SEC-4 Cards
- (10) SIC-4 Cards
- (10) SOC-4 Cards

(1) EX-MOD

- (3) EOC-4 Cards
- (1) EX-IN
- (1) EX-LOGIC
- (2) EX-OUT
- (1) Netgear® GS724T AVB Switch

The I/O cards in the SERVER-IO support up to 420x420 channels of mic/line level inputs and outputs. The SEC-4 cards provide 4 input channels with Sona™ acoustic echo cancellation (AEC), and also features the Biamp SpeechSense™ algorithm, which enhances speech processing by more accurately distinguishing between human speech and noise. The SCM-1 networking card enables HKU to interoperate their Tesira AV system with non-AVB equipment running on CobraNet®.

The EX-MOD is a modular expander that greatly increases the available channels of audio I/O, and can be easily adjusted as HKU continues to grow and add functionality to their AV system. The EX-IN and EX-OUT expanders each provide 4 channels of input and output respectively, while the EX-LOGIC expander provides 16 logic GPIO.

AVB SUPPORTS FUTURE GROWTH

HKU's Grand Hall is a model of unconstrained AVB interoperability at its finest. While the extensive 420x420 AVB channel count is likely more than the Hall needs for its current usage, HKU has invested in its future with this Tesira installation, and won't have to worry about growing pains when they're ready to expand their AV system. The Hall is a good example of how Tesira can be used in a smaller space, knowing that it can also scale up to large stadiums, and everything in between.

ABOUT BIAMP SYSTEMS

Biamp Systems is a leading provider of innovative, networked media systems that power the world's most sophisticated audio/video installations. The company is recognized worldwide for delivering high-quality products and backing each product with a commitment to exceptional customer service.

The award-winning Biamp product suite includes the Tesira® media system for digital audio networking, Audia® Digital Audio Platform, Nexia® digital signal processors, Sona™ AEC technology and Vocia® Networked Public Address and Voice Evacuation System. Each has its own specific feature set that can be customized and integrated in a wide range of applications, including corporate boardrooms, conference centers, performing arts venues, courtrooms, hospitals, transportation hubs, campuses and multi-building facilities.

Founded in 1976, Biamp is headquartered in Beaverton, Oregon, USA, with additional engineering operations in Brisbane, Australia. For more information on Biamp, please visit www.biamp.com.