

Product	Function
TesiraFORTÉ X 400	Powerful DSP with USB audio, featuring 4 channels of AEC.
TesiraLUX IDH-1	Acts as an AVB talker. Processes video signals from cameras, laptops, and media players.
TesiraLUX OH-1	Acts as an AVB listener. Outputs networked video to displays.
TesiraXEL 1200.1	Provides amplification to pendant loudspeakers in the lecture hall.
Crowd Mics	Audience engagement platform that manages interactions between local/remote attendees and the instructor.
Desono ENT212	Provides high performance sound reinforcement in the lecture hall.
Desono DP6	Provides high performance sound reinforcement in the lecture hall.

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SYSTEM DESIGN GUIDE

CONTACTLESS AV FOR EDUCATION

Crowd Mics™ and Tesira®

With the need to comply with social distancing guidelines and other public gathering restrictions, educators are faced with the challenge of creating learning environments that engage students while also keeping them physically separated for their own well-being. Many institutions are taking a multi-pronged approach to solving this challenge, continuing to deliver classes in-person whenever feasible and safe to do so, but also implementing additional AV technology in the classroom to support remote learning.

The audiovisual technology needed to minimize or eliminate contact between students in the classroom while simultaneously supporting remote participants can be difficult and time-consuming to identify. The Biamp Classroom creates an extraordinary audiovisual experience for the students and instructors in-room or remote, ensuring all students have a voice no matter where they are located.

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In this scenario, Crowd Mics plays a crucial role in managing interactions between the instructor and students. Whether students are in the lecture hall, their dorm room, or across the globe, Crowd Mics allows class attendees to use their phone as a wireless mic, text questions, and participate in polls, providing everyone with the same great experience regardless of their location. For the instructor, Crowd Mics enables them to easily identify who has requested to speak and open one attendee's microphone at a time, preventing the dissonance of having multiple microphones open simultaneously. Should the conversation get off topic, the instructor can deactivate the attendee's microphone at any time.

Crowd Mics and Tesira both work with many UC clients like Google Meet, Microsoft Teams, and Zoom, allowing schools to use their preferred solution while avoiding the costs and the constraints of having dedicated codecs or room systems in the classroom. TesiraFORTÉ provides the audio processing for the lecture hall and facilitates connectivity with UC clients for remote students, while the TesiraXEL asymmetric amplifier provides sound reinforcement for the loudspeakers.

BENEFITS FOR INSTALLERS

- A simplified network deployment saves install time by automatically configuring VLANs and QoS, and devices auto-connect to streams
- Tesira's patented Dynamic Delay Equalization technology automatically preserves lip sync and eliminates the need for time-consuming manual audio delay adjustments
- Less time and personnel are required on-site, allowing installers to easily maintain social distancing measures

BENEFITS FOR TECH MANAGERS

- Classroom AV can be easily monitored and managed remotely with Biamp SageVue™
- SageVue can send automatic alerts for any system issues and can secure access to the AV system to prevent unauthorized changes
- Fewer on-site support calls are required

