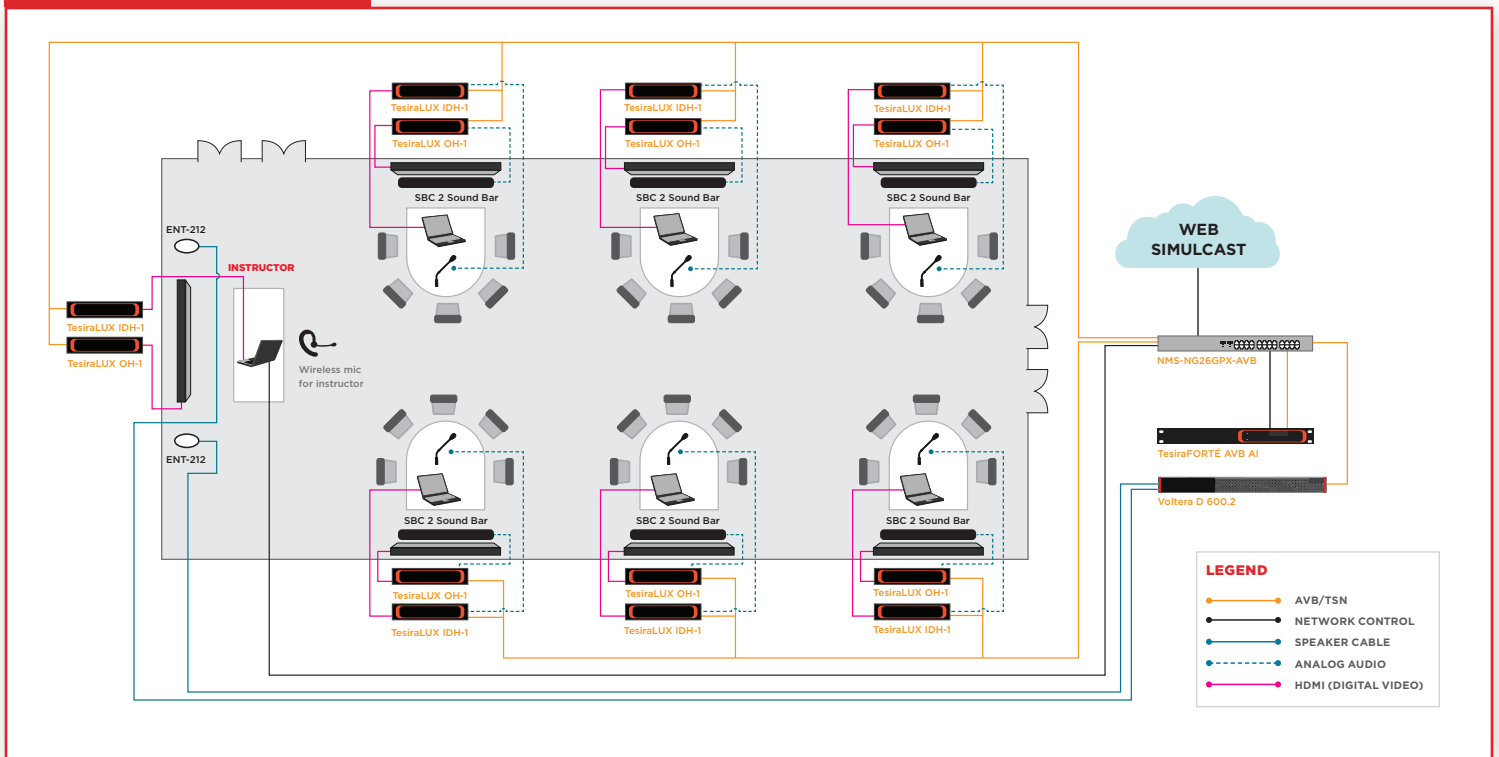**biamp.**

Active Learning Classroom

Active Learning Classrooms (ALC) are designed to foster an interactive, student-centered learning experience. Active learning strategies often involve complex interactions between professors, students, and local and global communities. The flexible classroom design of an ALC promotes whole-class, group, and one-to-one interactions, creating a collaborative, supportive environment that enhances learning.

In this setup, Tesira provides both the audio and video processing for the entire classroom. TesiraLUX enables bi-directional screen sharing between the instructor's station and student pods, while the Parle SBC 2 sound bar delivers high-quality audio directly to each pod. The ENT-212 column loudspeakers, driven by the Voltera D 600.2 amplifier, ensure clear sound reinforcement throughout the room, while TesiraFORTÉ provides sound reinforcement and manages mix-minus for the microphones located in each pod. Instructors can also connect via USB to broadcast lessons to remote students.

WIRING DIAGRAM

Diagram labels: TesiraLUX IDH-1, TesiraLUX OH-1, SBC 2 Sound Bar, ENT-212, INSTRUCTOR, Wireless mic for instructor, WEB SIMULCAST, NMS-NG26GPX-AVB, TesiraFORTÉ AVB AI, Voltera D 600.2

LEGEND
- AVB/TSN
- NETWORK CONTROL
- SPEAKER CABLE
- ANALOG AUDIO
- HDMI (DIGITAL VIDEO)

FEATURES & BENEFITS

- Audio and video processing and routing throughout the classroom
- Mix-minus control for dynamically adjusting the sound distribution to student pods
- DSP support for "collaboration mode" (independent audio and video at each pod) and "presentation mode" (the same audio and video at every pod)
- Sessions can be broadcast to remote students simultaneously via soft codec and USB connectivity

PRODUCT	DESCRIPTION
TesiraFORTÉ AVB AI	Provides dedicated DSP to the classroom, and the ability to use USB Audio via a computer, allowing soft codec integration
TesiraLUX IDH-1	Acts as an AVB talker and processes video signals from cameras, laptops, and media player
TesiraLUX OH-1	Acts as an AVB listener. Outputs network video to displays, as well as providing audio feeds to the soundbar
Voltera D 600.2	Provides amplification to column loudspeakers
NMS-NG26GPX-AVB	Provides AVB support
ENT-212	Sound reinforcement for presenter
Parlé SBC 2 soundbar	Provides quality audio to student pods