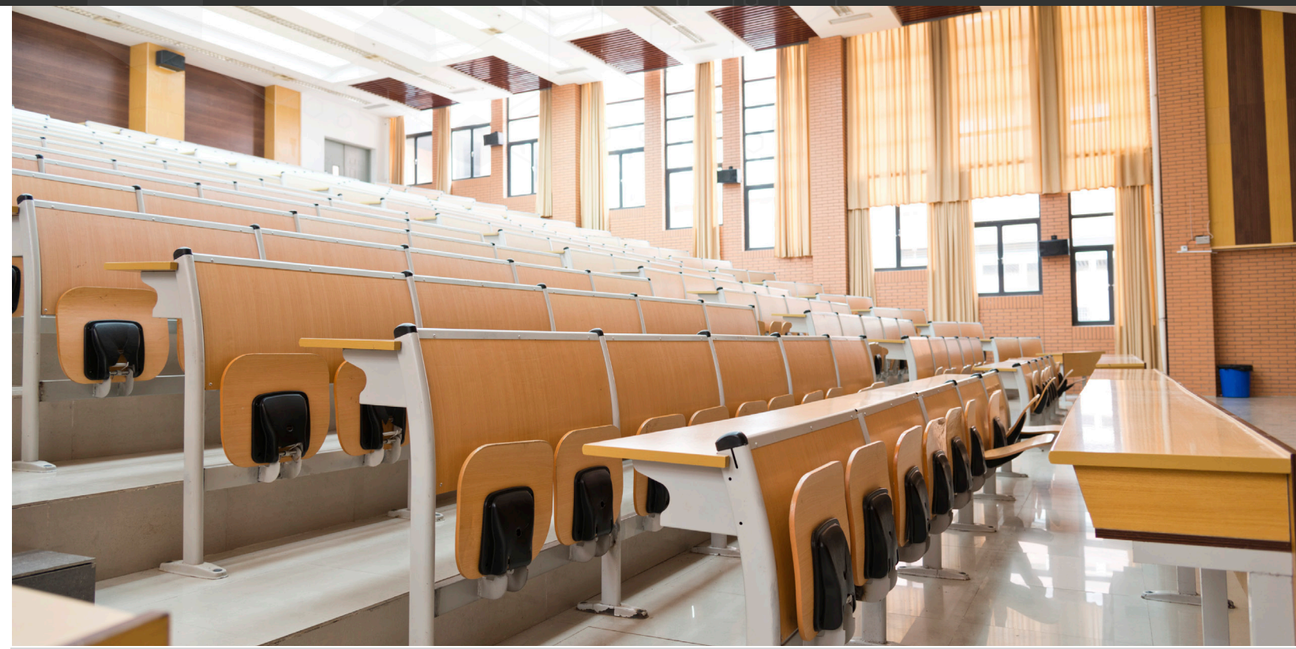
Product	Function
TesiraFORTÉ AVB CI	Provides dedicated DSP to the lecture hall and overflow room.
TesiraLUX IDH-1	Acts as an AVB talker. Processes video signals from cameras, laptops, and media players.
TesiraLUX OH-1	Acts as an AVB listener. Outputs networked video to displays.
TesiraXEL 1200.2	Provides amplification to pendant loudspeakers in the lecture hall.
TesiraXEL 1200.1	Provides amplification to ceiling loudspeakers in the overflow room.
Community DP6	Provides high performance sound reinforcement in the lecture hall.
Community D5	Provides high performance sound reinforcement in the overflow room.

TESLDG-346-2008-EN-R1



SYSTEM DESIGN GUIDE

LECTURE CAPTURE

Tesira®

Lecture capture is becoming increasingly important for higher education. With brick-and-mortar institutions facing growing competition from online-only alternatives, faculty need ways to provide value-add for students attending class in person. While not intended as a replacement for in-class instruction, lecture capture systems offer three important benefits: an alternative when students miss class; an opportunity for content review, particularly when complex topics are introduced; and content for online course development.

Simply by capturing new content each year, faculty can develop an archive of material that's available to students as reference. As a result, students can watch past as well as current lectures, which helps provide the extra information needed to grasp a difficult concept. With so much information to absorb and so little time in class to assimilate it, many students benefit from the ability to download the recorded lectures and review the sections that require additional clarification and understanding.

SYSTEM DESIGN GUIDE

LECTURE CAPTURE

There are often a multitude of video sources to account for in effective lecture capture. From document cameras, to spreadsheets and presentations, to live or streaming video, the lecture capture system must be able to accommodate a broad swath of bandwidth and resolution requirements. In this scenario, Tesira provides the audio and video processing for both the lecture hall and overflow room. TesiraLUX facilitates streaming the video sources to the monitors in the lecture hall, overflow rooms, and lecture capture server. TesiraFORTÉ provides the sound reinforcement for the lecture hall and advanced audio processing for the video streams as needed.

Low latency lip sync is crucial for the monitors in the rear of the lecture hall. By controlling the entire signal path, Tesira is able to provide integrated lip sync management without the need to add audio delays to the loudspeaker runs.

TESIRA FEATURES

- Audio and video processing and routing throughout the lecture hall and overflow room
- Automatic gain control for dynamically adjusting the gain/volume on all microphones
- Integrated lip sync management for displaying instructor camera feed in the rear of the lecture hall
- Interfaces with lecture capture server