

Product	Function
TesiraFORTÉ AVB CI	Provides dedicated audio DSP to the broadcast area.
TesiraLUX IDH-1	Acts as an AVB talker. Processes video signals from the editing station.
TesiraLUX OH-1	Acts as an AVB listener. Outputs networked video to displays.
Tesira AMP-8175R	Provides amplification to ceiling loudspeakers in the student center/cafeteria.
Tesira AMP-4175R	Provides amplification to ceiling loudspeakers in the classroom.

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SYSTEM DESIGN GUIDE

HIGH SCHOOL VIDEO PRODUCTION

Tesira®

Teachers at all levels of academia face an ongoing struggle to keep their students engaged in learning. This is especially true at the high school level, where disengaged students show a strong propensity for dropping out. By happy coincidence though, the meteoric rise of online video has given educators a unique opportunity to help keep students interested in their education with the addition of video production courses.

Video production capabilities are expanding rapidly throughout high schools and colleges due to their flexible applications and opportunities for paid sponsorships to help offset equipment costs. Use cases include advertising upcoming events or fundraisers, increasing fan engagement at sporting events, communicating student-oriented news throughout the building or campus, and even live-streaming events like graduation ceremonies. The benefits to students enrolled in these classes are also significant; participants typically show more engagement than in other classes, and gain a strong foundation in skills like critical thinking, collaboration, and decision making.

SYSTEM DESIGN GUIDE

VIDEO PRODUCTION

Platforms like YouTube® mean instantaneous global exposure via the click of a video upload, so it's no surprise that many students are interested in honing their video skills. Video production typically involves all aspects of the filming process; from scriptwriting, to filming in a studio or on location, to editing the content and adding post production effects.

In this scenario, TesiraFORTÉ provides the audio processing for the broadcast area prior to transfer to the editing station. TesiraLUX facilitates live-streaming the video output to the monitors in the various classrooms, as well as to monitors and projector in the student center/cafeteria.

TESIRA FEATURES

- Audio processing for the broadcast area
- Automatic gain control for dynamically adjusting the gain/volume on all microphones
- Network-based video distribution throughout the building
- Sessions can be broadcast to remote students simultaneously via soft codec and USB connectivity
- Impedance monitoring and analog failover available for loudspeakers in the classrooms and cafeteria
- Password protect the system to prevent unauthorized access

LEGEND

Tesira (AVB/TSN)

Analog Audio I/O

Network /Control

Digital Video

