

# CASE STUDY

## Education

### CUMBERLAND COUNTY TEC



#### Project Scope

Services Offered - Consulting, System Design, Set Design, Broadcast Installation, AV Installation, LED Wall, Schoolwide Paging, Communication, and Safety

CCTEC is a Complete Solution Education Case Study which includes a state of the art Broadcast TV studio along with multi-display classroom collaboration technology. Horizon AVL integrated CCTEC's auditorium video projection and sound system, as well as the cafeteria video projection and sound system. Horizon AVL designed two independent LGI (large group instruction) areas that include custom podiums and projection screens with a projector. Horizon AVL integrated additional classroom technology, including a camera system, which all connects to Crosspoint for distributed audio/ video throughout the space.



## Project Highlights

### Schoolwide Audio/Video Distribution

At CCTEC, Horizon AVL deployed an Extron XTP II system with classroom audio and video functionality that includes the ability to send, receive, and control audio and video from any equipped space on campus to any other campus location. Equipped with a single under-table video switcher and a desk-top control panel, each learning space can send video to either display in the room (projector or LED display). An Extron Sharelink is installed in each room to give wireless connection for student collaboration. The control consists of system on/off, video muting, and input selection with internal classroom volume control. Classroom transmitters and receivers connect to the nearest network closet and a Crosspoint matrix switcher handles audio and video routing. Crosspoints connect to each other via a fiber connection which ensures enough bandwidth if large volume video signals need to be transmitted from one Crosspoint to another. Button panel classroom controllers are networked to the main central processor in the school's MDF.

The secondary function of the system, although equally important, is the campus-wide alert and messaging system. When the fire alarm is triggered, or a lockdown signal is activated, then all displays on campus turn on with an auto-switch to the alert channel, which then provides information and instruction.

### Broadcast

Broadcast can extend to all rooms and displays throughout the building. Several Extron Crosspoint audio/visual digital matrixes located throughout the building will distribute content and emergency alerts, as needed. The administrative wing of the building connects to this system which provides multiple advantages, such as sharing announcements or content throughout all classrooms and campus wide. This feature allows for collaboration and "overflow" arrangements. CCTEC's TV studio provides the opportunity to override content or distribute campus wide broadcast for general purposes or in an emergency, if needed. The XTP system is self contained, and functions outside of a network. IT network is only needed for internet access and minimal control aspects. All other audio and video routing, and control processing function internally to the XTP ecosystem.

All of the equipment is designed and integrated to work perfectly together. Horizon AVL developed for CCTEC a rock solid comprehensive solution.

## Brand Highlights

**ALLEN&HEATH**



**Extron**

