

PROAV DESIGN GUIDE

Auditorium Design Guide

Designed for 100-300 students with presenter tracking cameras for large spaces.



Reference layout: large stage / podium, dual projection plus side displays, presenter tracking camera, tiered seating.

FOOTPRINT

36' x 60'
2,160 sq ft Seats:
100-300

TECHNOLOGY

\$135K-\$155K By design
Camera tracking, video,
audio & control

FURNITURE

By design

Built for big audiences and big moments.

Audio and video products are crucial for enhancing the learning process in educational institutions worldwide. Creation Networks offers AV systems that provide high-quality visuals and sound, easy-to-use controls, and reliable performance tailored for educational purposes.

Large auditoriums or learning spaces for 100-300 students are sometimes used for special presentations or performances - often with a stage or podium at the front. This design sends the same content to all displays or switches one source to a main display with a presenter-tracking camera following the speaker even as they move across the front.

The Automate VX and DigitalMedia NVX solution provides secure 4K signal routing throughout the space, delivering responsive interaction so sharing lecture information is quick and simple - advanced in programming yet simple in user interaction.

KEY FEATURES

- Presenter Tracking
- AI Tracking Cameras
- Automate VX Pro
- DM-NVX 4K Routing
- Teams + Zoom
- Crestron Control

PRICING NOTE

All pricing is conceptual and based on the wide range of product choices available. Each space has unique considerations: acoustics, build-out, labor, and infrastructure.

SPECIFICATION SHEET

Recommended Equipment Schedule

Curated AV stack used in this lecture hall reference design.



Dual projection + side displays

deliver the same content room-wide or one switched source up front.



Automate VX AI camera tracking

follows the presenter across the stage automatically.

TECHNOLOGY PRODUCTS

PROJECTION & DISPLAYS:

Planar 165" LED Video Wall
Sharp 85" side & rear displays

UC INPUT SOURCES:

Crestron UC-CX100-T Flex Advanced kit for Microsoft Teams Rooms
Crestron AM-3200-WF AirMedia Series 3 wireless w/ Wi-Fi

INTELLIGENT MULTI-CAMERA VIDEO:

Crestron 1 Beyond IV-CAM-P12 (2x)
-front-of-room flanking 165" video wall
Crestron 1 Beyond IV-CAM-P12 (2x)
-side-mounted for lateral seating coverage
Crestron 1 Beyond IV-CAM-P20
-ceiling-mounted rear coverage
Crestron 1 Beyond IV-CAM-I20 - presenter tracking + PTZ when idle
Crestron IV-SAM-VX2-P Automate VX Pro Series 2 voice-activated camera switching

VIDEO PROCESSING:

Crestron DM-NVX-363C with Dante audio
Crestron DMF-CI-8 DigitalMedia 8-slot card chassis
Netgear M4250 GSM4230PX 24-port AV-line PoE+ switch (480W)

SOUND SYSTEM:

Shure IntelliMix P300-IMX conferencing DSP
Shure MXA920 ceiling-array microphone (2x)
Shure MXWAPT2 2-channel access point transceiver
Shure MXWNCSS2 2-channel networked charging station
Shure TwinPlex TH53 headset - Black (2x)
Shure MXW1 hybrid bodypack transmitter (2x)
Shure MXW2/SM58 handheld wireless transmitter (2x)
Crown 4-channel power amplifier (2x)
Meyer Sound ULTRA X-82 AND Ashby-8C 8.5" in-ceiling Loudspeakers

CONTROL & MANAGEMENT:

Crestron TSW-1070 10" touch panel
Crestron CP4N 4-Series control system
Eaton EMA113 EPDU Power Distribution
Middle Atlantic Equipment Rack

FURNITURE PRODUCTS

SEATING:

Auditorium seating

TABLES | DESKS:

Large podiums



TIMELINE

