Elevate the Hybrid Learning Experience
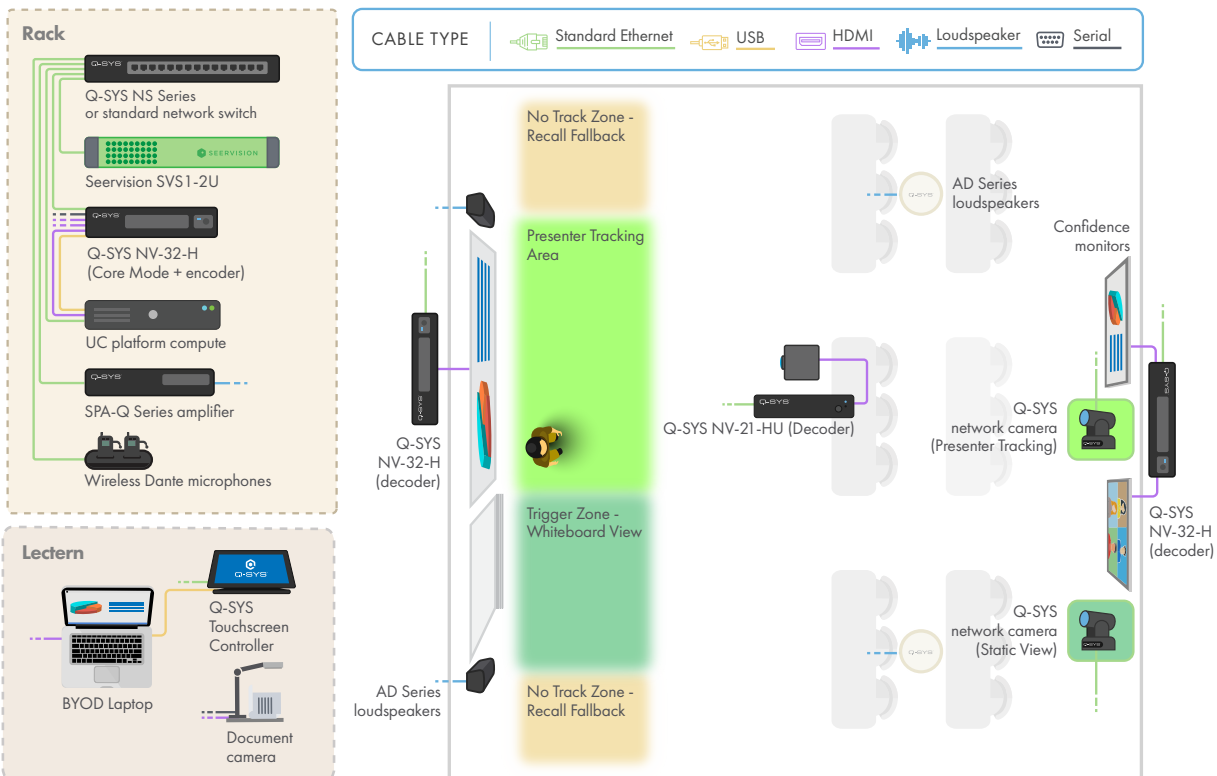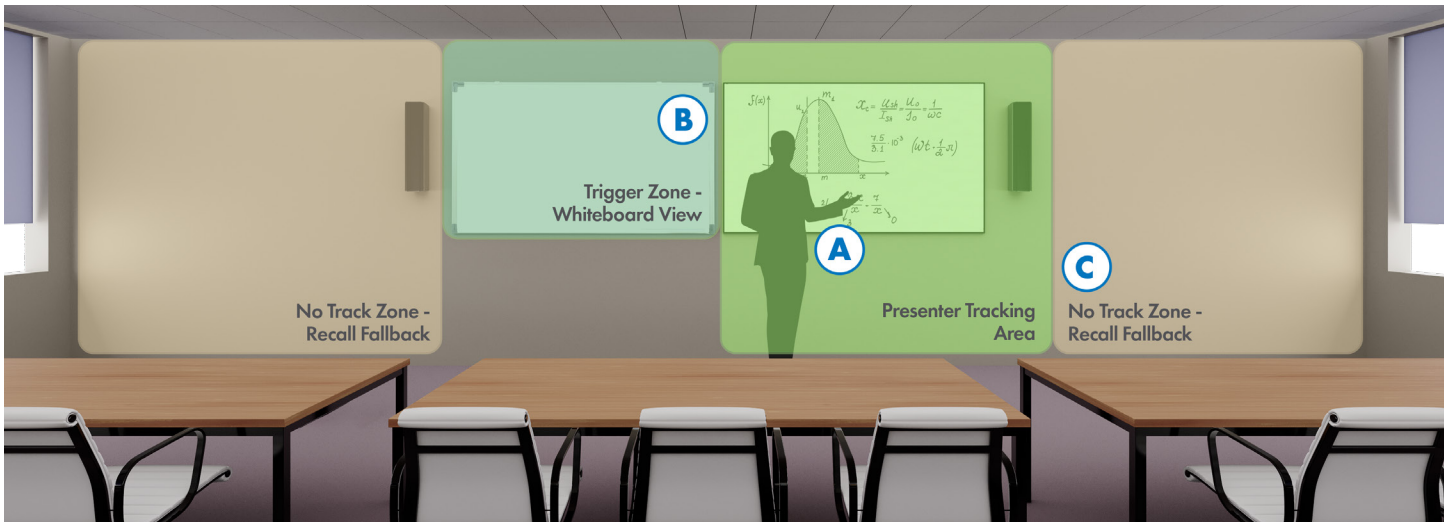
Use Cases for Higher Education

Q-SYS VisionSuite is a solution set that improves the visibility of in-room participants to promote a natural viewing experience for the far-end, empowering students to feel united and stay engaged no matter where they are.

Ensure remote students can always see who is speaking with **audio-based participant camera switching**. Utilizing data from in-room microphones, Q-SYS will automatically trigger different user-defined camera presets while framing the best shot, resulting in a more natural collaborative learning experience for in-room and remote students.

For dedicated presentation spaces in classrooms or lecture halls, you can further elevate lectures with **intelligent presenter tracking**. Q-SYS Seervision AI-driven, adaptive full-body presenter tracking technology frames and follows the instructor for a better viewing experience for remote students.

VisionSuite leverages Q-SYS robust control engine to enable **vision-based control and automation** for a uniquely tailored experience in any space.

Use Case: Classroom
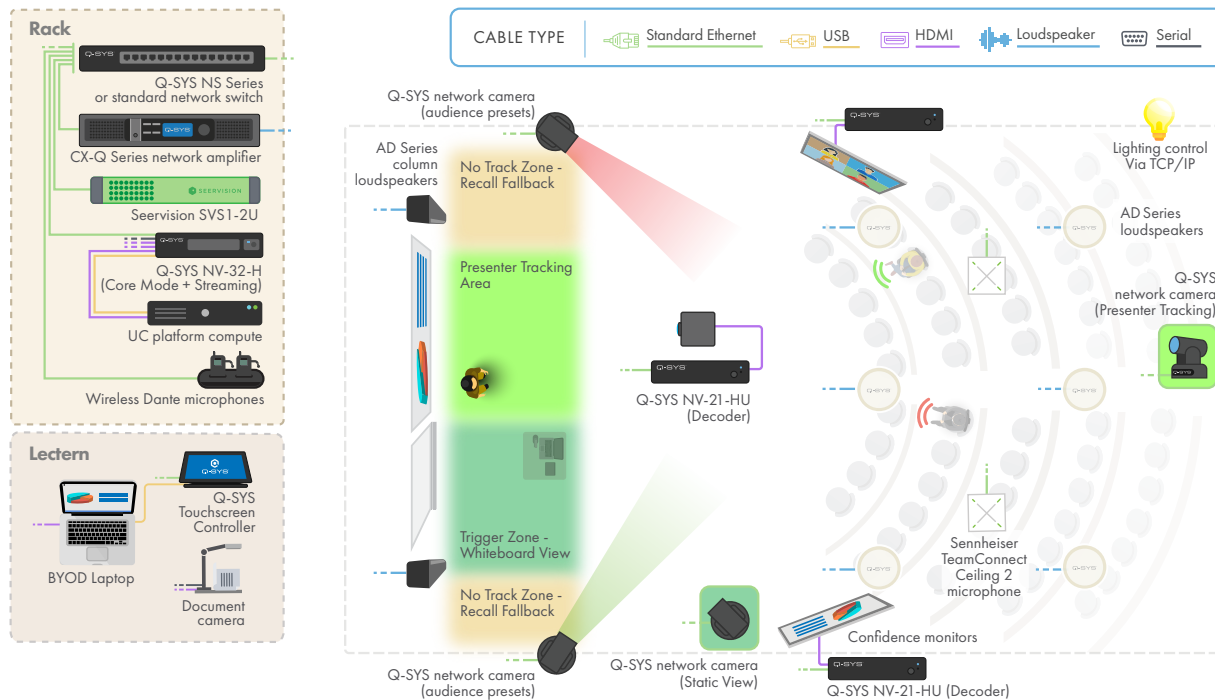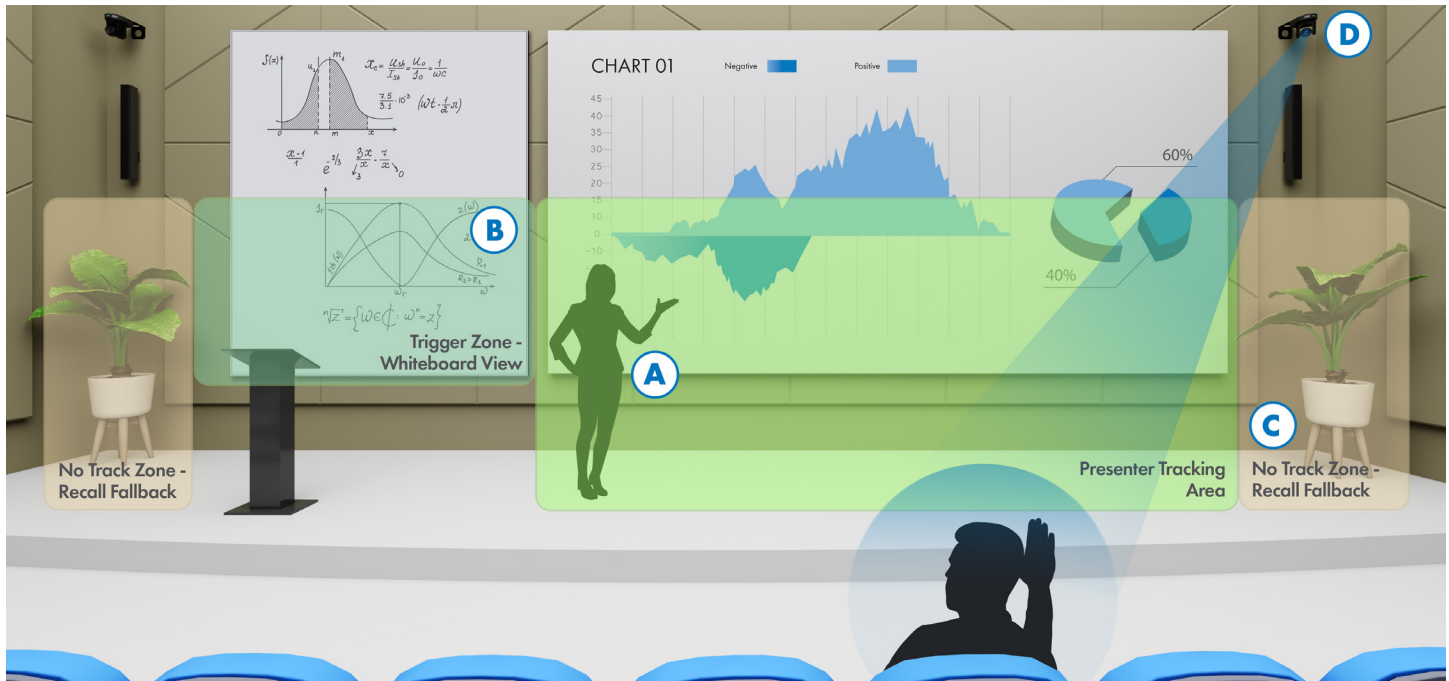# (Intelligent presenter tracking only)

The classroom image showing zones:
- **B** Trigger Zone - Whiteboard View
- **A** Presenter Tracking Area
- No Track Zone - Recall Fallback
- **C** No Track Zone - Recall Fallback

System diagram showing:

Rack
- Q-SYS NS Series or standard network switch
- Seervision SVS1-2U
- Q-SYS NV-32-H (Core Mode + encoder)
- UC platform compute
- SPA-Q Series amplifier
- Wireless Dante microphones

Lectern
- Q-SYS Touchscreen Controller
- BYOD Laptop
- Document camera

CABLE TYPE: Standard Ethernet, USB, HDMI, Loudspeaker, Serial

Diagram elements: No Track Zone - Recall Fallback, Presenter Tracking Area, Trigger Zone - Whiteboard View, Q-SYS NV-32-H (decoder), AD Series loudspeakers, Q-SYS NV-21-HU (Decoder), AD Series loudspeakers, Q-SYS network camera (Presenter Tracking), Q-SYS network camera (Static View), Confidence monitors, Q-SYS NV-32-H (decoder)

User Experience

A. Presenter camera starts in a user-defined default position and automatically tracks presenter in "Presenter Tracking Area"

B. Static View camera provides a cropped, stationary view of whiteboard when presenter enters "Trigger Zone – Whiteboard View"

C. If there is no presenter in "Presenter Tracking Area" or "Trigger Zone – Whiteboard View", Presenter camera returns to user-defined fallback position (such as wide view of room)
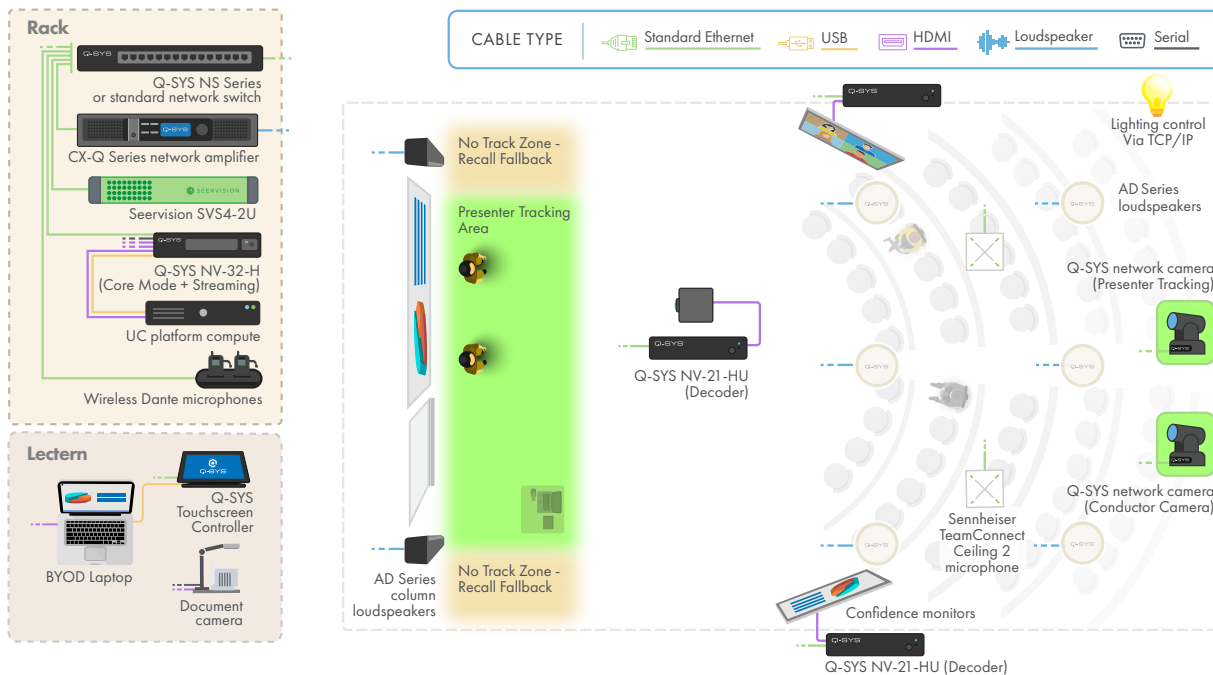
Use Case: Lecture Hall
(Intelligent presenter tracking + Audio-based Participant Camera Switching)

User Experience

A. Presenter camera automatically tracks presenter in "Presenter Tracking Area"

B. Static View camera provides a cropped, stationary view of whiteboard when presenter enters "Trigger Zone – Whiteboard View"

C. If there is no presenter in "Presenter Tracking Area" or "Trigger Zone – Whiteboard View" Presenter camera returns to user-defined fallback position (such as wide view of room)

D. When a meeting participant speaks, Q-SYS uses in-room microphone data to recall user-defined camera presets and switch the live feed to show who is speaking

Use Case: Lecture Hall
(Intelligent Multi-Presenter Tracking)

Rack
- Q-SYS NS Series or standard network switch
- CX-Q Series network amplifier
- Seervision SVS4-2U
- Q-SYS NV-32-H (Core Mode + Streaming)
- UC platform compute
- Wireless Dante microphones

Lectern
- Q-SYS Touchscreen Controller
- BYOD Laptop
- Document camera

CABLE TYPE
- Standard Ethernet
- USB
- HDMI
- Loudspeaker
- Serial

- No Track Zone - Recall Fallback
- Presenter Tracking Area
- Q-SYS NV-21-HU (Decoder)
- AD Series column loudspeakers
- No Track Zone - Recall Fallback
- Q-SYS NV-21-HU (Decoder)
- Lighting control Via TCP/IP
- AD Series loudspeakers
- Q-SYS network camera (Presenter Tracking)
- Q-SYS network camera (Conductor Camera)
- Sennheiser TeamConnect Ceiling 2 microphone
- Confidence monitors

User Experience

A. Presenter camera starts in a user-defined default position and automatically tracks presenter in "Presenter Tracking Area"

B. When a second presenter is detected in "Presenter Tracking Area", live feed switches to Conductor camera for a wider field-of-view of both people

C. Live feed remains on Conductor camera until one presenter leaves the "Presenter Tracking Area"