

PROAV DESIGN GUIDE

## Divisible Spaces

Divisible video conference rooms with partition-sensor-driven AV routing.



Reference layout: mirrored Rooms A & B separated by a movable wall, partition sensor controls audio/video routing.

## One room, two rooms - on demand.

Q-SYS brings the Microsoft Teams Rooms experience to high-impact spaces with a portfolio of certified for Teams devices tailored to your room's design—whether in-ceiling, open ceiling, or directional audio is required. The Q-SYS Core Processor integrates audio processing, multi-camera switching, automation, and room control, enabling scalable, consistent deployments that meet both technical and user experience goals.

The environment is a bidirectional video conference setup for presenter and audience experiences. Both Rooms A and B have an identical experience on either side of the divisible wall - audience-facing cameras above the primary displays, presenter-facing cameras under the confidence monitors, wireless mics for voice lift, and ceiling array microphones for audience questions.

Once the wall opens, an infrared partition sensor activates and the combined room receives input from all four ceiling and presenter microphones, output to twelve speakers, with the secondary room mirroring the primary system. The possibilities are limitless - overflow coverage, multi-room environments, and beyond.

FOOTPRINT	TECHNOLOGY	FURNITURE
40' x 40'	\$65K-\$95K	By design
Per room Combined: 60+	Mirrored A/B systems, DSP, NVX & control	Salamander, Heckler, Steelcase partners

### KEY FEATURES

- Partition Sensor Auto-Routing
- Bidirectional VC
- Mirrored Rooms A & B
- 4K Video Distribution
- Q-SYS Audio DSP
- Teams / Zoom Certified

### PRICING NOTE

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

## SPECIFICATION SHEET

### Recommended Equipment Schedule

Curated AV stack used in this lecture hall reference design.



**Per-room AV system**  
*identical equipment list applies to Room B – mirror of Room A.*



**Wall opens, AV merges**  
*twelve speakers and all mics combine into one system.*

## TECHNOLOGY PRODUCTS

### PRIMARY DISPLAYS:

- LG 86UL3J-B 86" UHD Commercial TV (2x)
- Chief XTMIU X-Large Micro-Adjustable Tilt Wall Mount (2x)

### CONFIDENCE DISPLAYS (CEILING):

- LG 55" UHD Slim Commercial Display, 700-nit, webOS (2x)
- Chief Fusion LCM2xIU large flat-panel ceiling mount
- Chief CMS0608 6-8' adjustable extension column
- Chief CMA330 8" offset ceiling plate
- Chief FCA520 Universal Clamp Kit

### VIDEO CAMERAS:

- Q-SYS NC-12x80 network camera
- Q-SYS NC-20x60 network camera
- Chief FCA500 ceiling-mount camera shelf 18"

### MICROPHONES:

- Shure MXA920 ceiling-array microphone (1x) –or Sennheiser TeamConnect 2

### SPEAKERS (SHARED):

- QSC AD-C6T-LP 6.5" low-profile ceiling speaker (closed ceiling)
- QSC AD-P6T 6.5" pendant speaker (open ceiling)

### AUDIO DSP (SHARED):

- QSC Core 8 nano unified core processor
- QSC SPA2-60 amplifier (1x)

### ROOM B = MIRROR OF ROOM A

Room B uses the identical equipment list as Room A. See Page 3 for shared infrastructure: partition sensor, video distribution, network, controllers, scheduling, computer, cables and furniture.



## TIMELINE

DESIGN	2 weeks	PROCUREMENT	2 weeks	PRODUCTION	1 week	INSTALLATION	2 weeks
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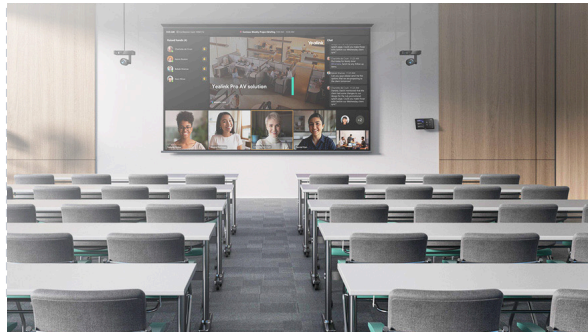
## SPECIFICATION SHEET

### Recommended Equipment Schedule

Curated AV stack used in this lecture hall reference design.



**Centralized core**  
shared by both rooms  
– DSP, NVX, network,  
controller.



**Tech-integrated furniture**  
Salamander, Heckler  
Design, Steelcase  
partners.

#### VIDEO & NETWORK

**VIDEO DISTRIBUTION:**

Q-SYS NV-32-H network video endpoint (10x)

**NETWORK SWITCH OPTIONS:**

Netgear M4250 GSM4210PD 8-port AV-line switch

Netgear M4250 GSM4230PX 24-port AV-line PoE+ switch

**PARTITION SENSOR:**

Legrand Wattstopper partition sensor

Crestron GLS-PART-CN partition sensor

**COMPUTER (WINDOWS IoT):**

Microsoft Teams Rooms PC or Appliance



#### CONTROL & FURNITURE

**DIVISIBLE SPACE CONTROLLER:**

Q-SYS TSC-101-G3 10" high resolution touch controller (2x)

**SCHEDULING PANELS:**

Neat Pad 8" (wall / side mount)

Logitech Tap Scheduler 10" (wall / glass / side mount)

Yealink RoomPanel 8" (wall / glass / side / tilt mount)

Crestron TSS-1070 10" (wall or glass mount)

#### FURNITURE PARTNERS

**PRIMARY PARTNERS:**

Salamander Design – commercial integration furniture

Heckler Design – device & tablet enclosures

Steelcase – Zoom Rooms furniture systems



#### TIMELINE

