



Everything You Need To Know About

IS, AW & SP Series Speakers



Our Family Is Growing.....

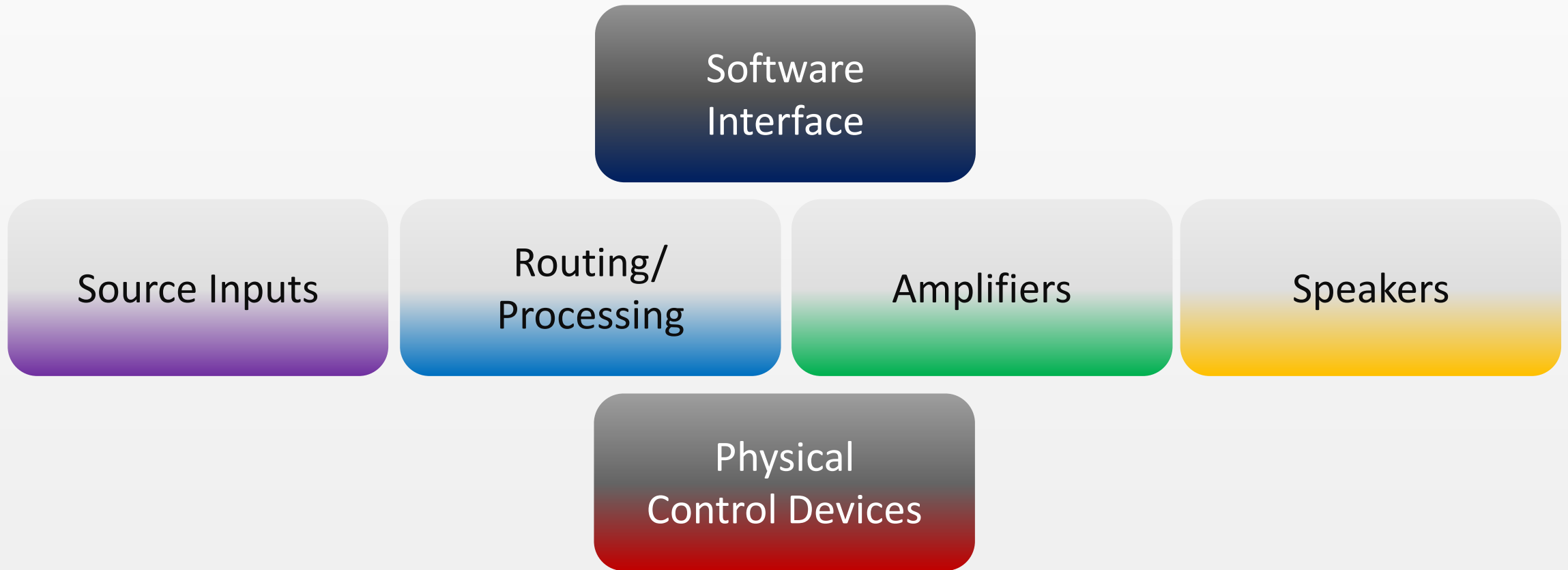
Ashly Speakers - Putting It All Together

- *Expanded ecosystem*
- *Offers system solutions*
- *Covering the bases*
- *Playing well with others (and us)*
- *Unique approach*
- *Vertically focused*



ASHLY®

Complete Solutions – Commercial Installation



Selling The Total Ashly Solution

Ashly processors are equipped for speaker optimization:

- **Level 1:** AquaControl/Protea (mXa, pema, nXp, nep, ne)
 - Advanced EQ, FIRs, X-Over, Delay
- **Level 2:** Protea (ne24.24m processors)- No FIRs
- **Level 3:** SP only - Basic EQ, Delay



IS Series Slim Column Arrays



ASHLY®

IS Series Slim Column Arrays

- Optimized for Speech
- Sleek, low-profile enclosure for architectural requirements
- All Metal Construction for added durability
 - Mounting flexibility for install or portable use
- SP Series Subs for extended Low End
- Available in B/W for easy décor matching



NEW! SP 8.1P

IS Series Target Markets

- Houses of Worship
- Schools
- Conference Rooms
- Hotels
- Atriums/Terminals



Column Array vs Conventional Speaker

Conventional Speaker:

SPL attenuates 6dB for every doubling of distance and has less controlled vertical dispersion



Progressive attenuation over most of projection range

Inverse Square Law applies

0ft 10ft 20ft 40ft 80ft 100ft 150ft

Column Array vs Conventional Speaker

Column Arrays:

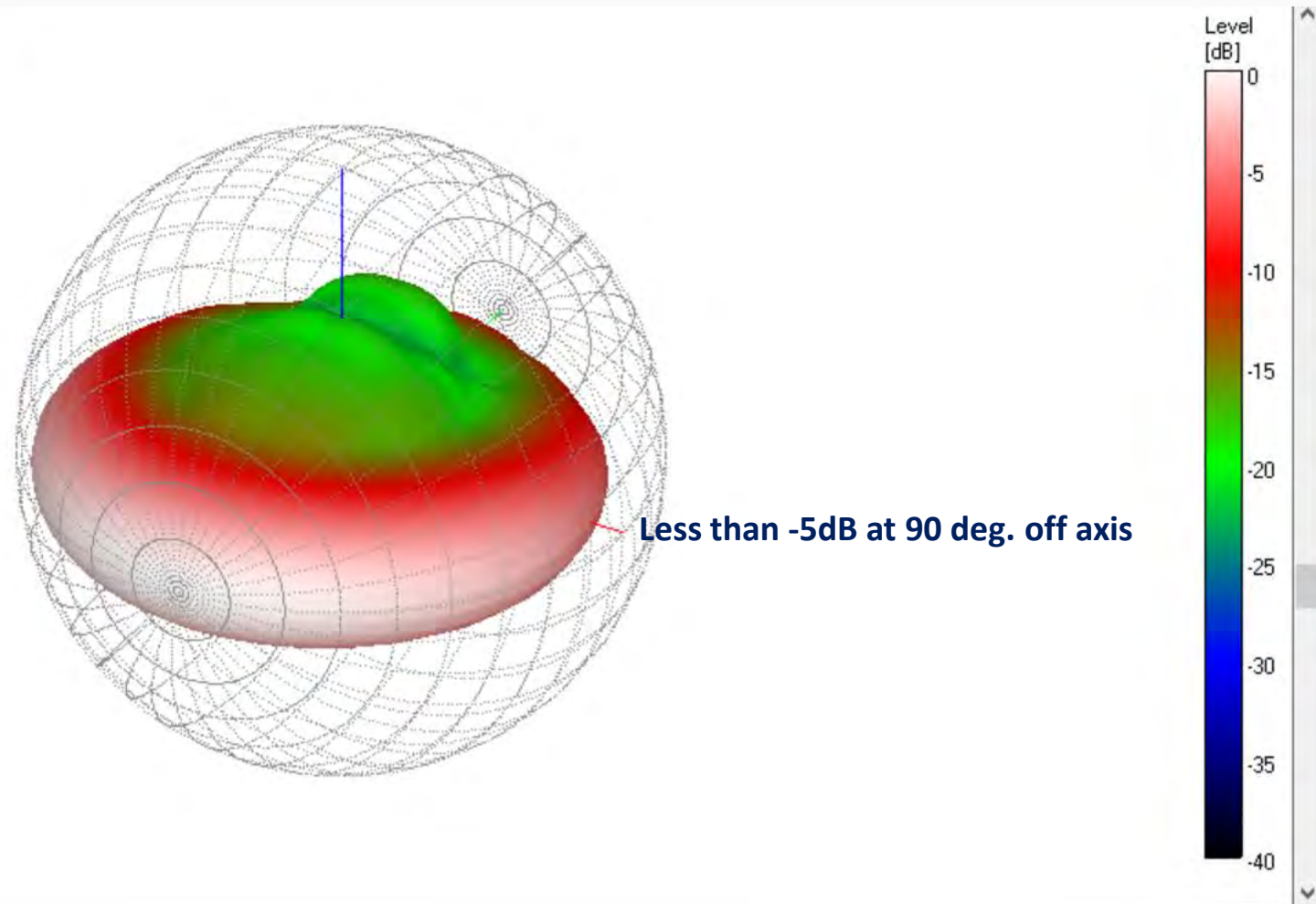
Maintain consistent SPL over greater distance and also provides tighter vertical coverage



IS Series - Coverage

IS 3.8P EASE Plot: Over 170° degrees of horizontal dispersion for even coverage

Data Shown: IS 3.8P (ASHLY Audio)
Display Parameters: Frequency: 1000Hz (1/1 Octave)



IS-2.8P Linear Column Speaker

- Eight - 2" full range drivers
- 120W Rated Power
- 8 or 32 Ohms Impedance
- 2-pole Euroblock & 2 x ¼"
- Integrated pole mount

Suggested Amp Match:

- mXa-1502
- nXp-1502
- FA-125.2/4
- Pema4125/8125

Ideal for: HoW ■ Auditoriums ■ Conference Rooms ■ Hotels



\$650 MAP

IS-3.8P Linear Column Speaker

- Eight - 3" full range drivers
- 240W Rated Power
- 8 or 32 Ohms Impedance
- 4-Pole Euroblock & 2 x NL4
- Integrated pole mount

Suggested Amp Match:

- nXp-4002/4004
- Nep/pema4250/8250
- FA-250.4
- CA-502/4

Ideal for: HoW ■ Auditoriums ■ Conference Rooms ■ Hotels



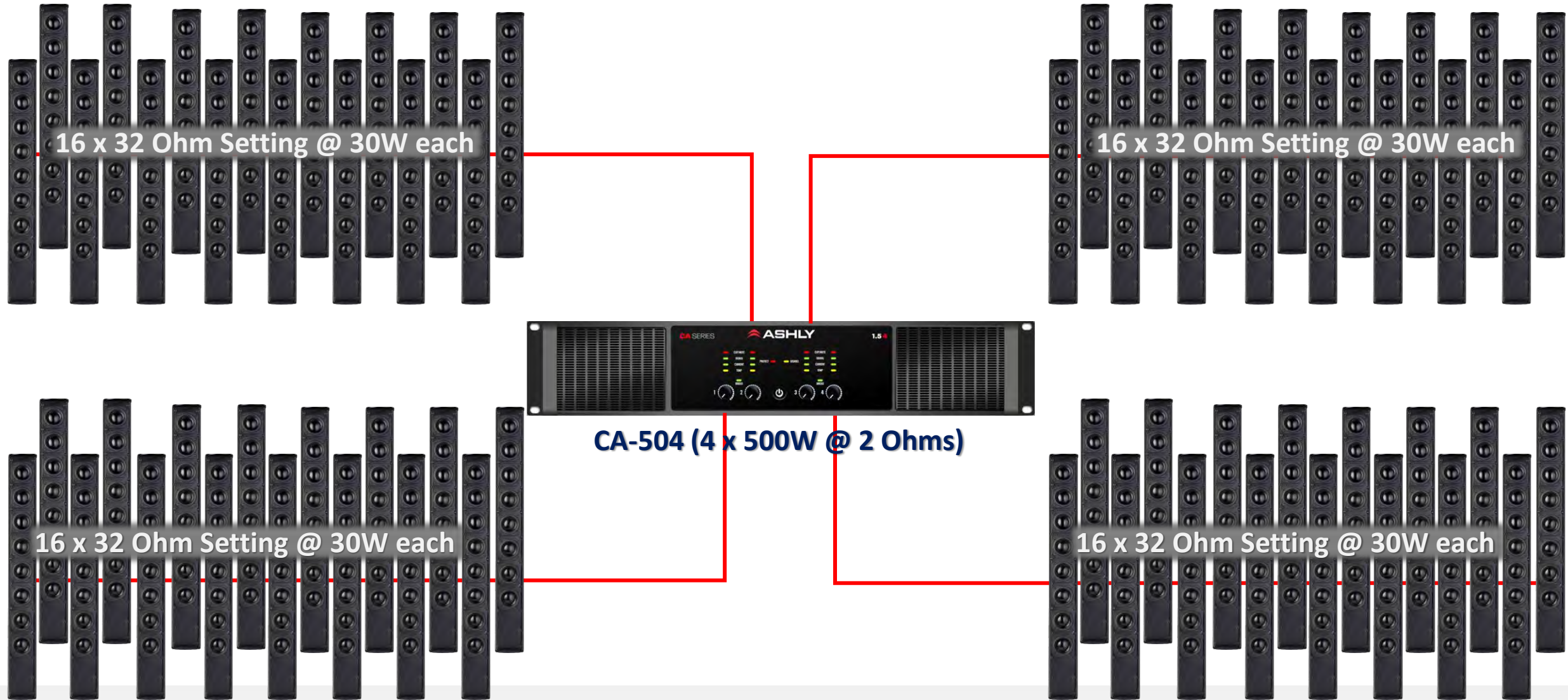
\$1,084 MAP

Why no transformer?

- **Limited Power handling**
- **Unsightly add-on**
- **Reduced performance:**
 - Insertion Loss
 - Further limits LF speaker performance
- **More complicated setup**
- **Added Cost**



IS Series: 32 Ohm Configuration



SP Series Compact Subwoofers



ASHLY®

SP-12.1P Subwoofer

- 12" High-powered Sub-woofer
- 350W RMS Rated Power (at 8 Ohms)
- 4-Pole Euroblock & 2 x NL4 connectors
- Built-in Pole-mount Hole for IS (top & side)
- Available in Black or White
- Perfect low-frequency extension for IS Column or AW Speakers

Suggested Amp Match:

- nXp-4002/4004
- CA-1.0X
- KLR-2000



\$650 MAP

SP-8.1P Subwoofer

- 8" High-powered Sub-woofer
- 150W RMS Rated Power (at 8 Ohms)
- 4-Pole Euroblock & 2 x NL4 connectors
- Built-in Pole-mount hole for IS (top & side)
- Multiple 10mm bolt holes for hanging
- Available in Black or White
- Perfect low-frequency extension for IS Column or AW Speakers

Suggested Amp Match:

- nXp-152/154
- CA-502/504
- Nep4250/8250
- mXa-1502

NEW for '22



\$379 MAP

SP-8.1P Subwoofer

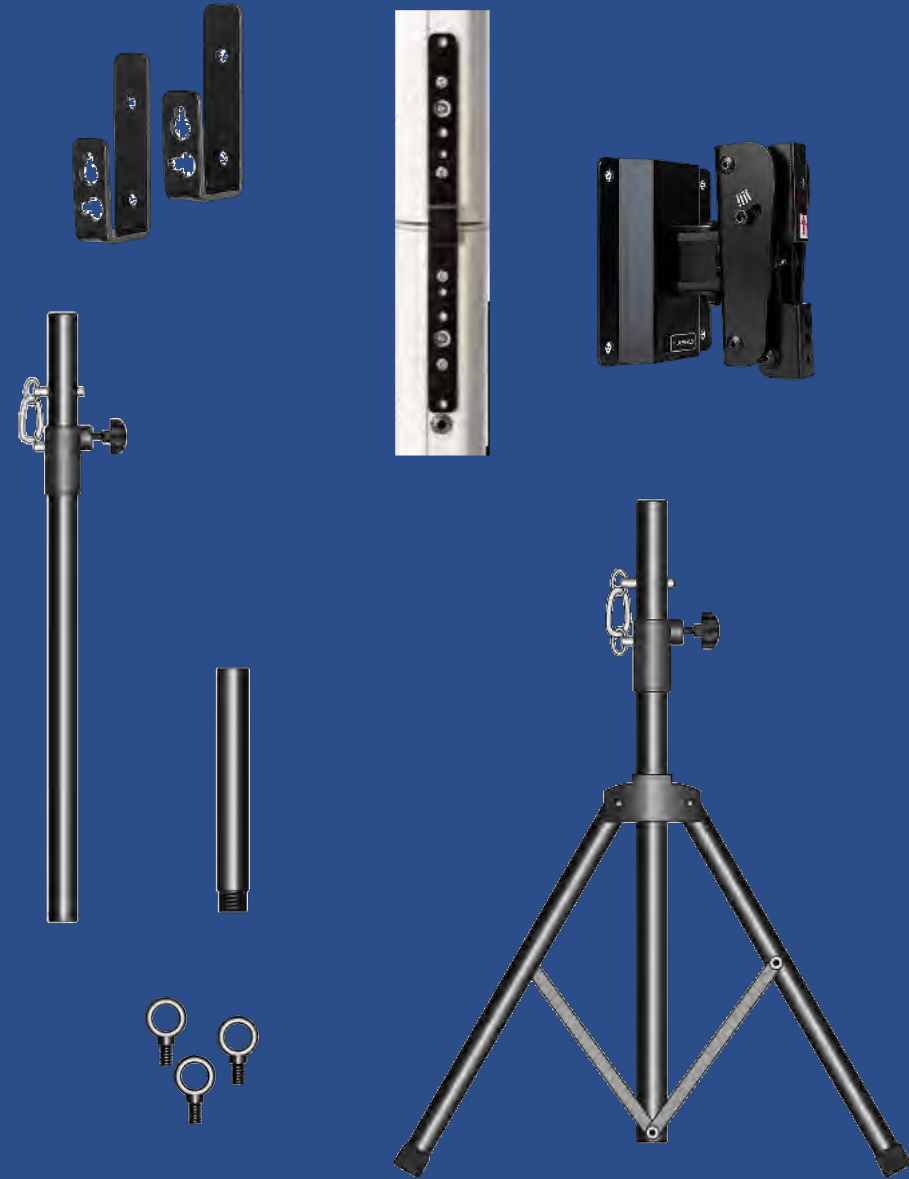
NEW for '22

- Compact sub with short pole-mount for IS Speakers
- Ideal for tabletops & small stages
 - Classrooms
 - Meeting Rooms
 - Trade Shows
 - Retail Displays



IS Series Mounting Options

- **IS-FWB2.8** Flush Wall Bracket (supplied)
- **IS-FWB3.8** Flush Wall Bracket (supplied)
- **IS-JP2B** Joining Plate for stacking 2 - IS speakers
- **IS-TWM** Tilt Wall Mount -15 V +/-90 H tilt
- **IS-PM1B** 1' Pole Mount
- **IS-PM6B** 6' Pole Mount
- **IS-TR7B** 7' Folding Tripod Stand
- **M10-SP** Fly-mounting Eyebolts (3 pack) for SP 8.1P



IS Series – The Competition

- **K-Array KK52i:** Vastly more expensive for similar configuration & performance. 8 x 2"
- **JBL CBT-50LA-1:** Less expensive w/ built-in transformer 8 x 2". Plastic housing not suitable for portable use.
- **TOA SR-H2L:** Less expensive, but not portable (wood encl). Lower SPL, Narrow dispersion. Optional Transfr. (Transformer + \$70) Wht only



\$1,959 MAP



\$455 MAP



\$419 MAP

IS & SP System Examples

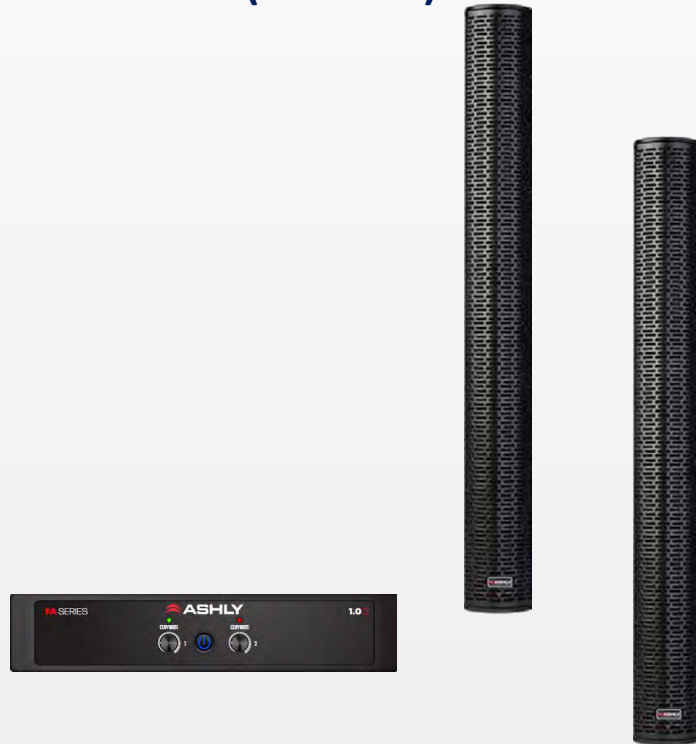


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IS Conference Packages

Package #1 (smaller displays)

- 2 x IS-2.8P Wall-mounted speakers
- FA-125.2 (2x125W)



Package #2 (larger displays)

- 2 x IS-3.8P Wall-mounted speakers
- FA-125.4 (2x250W)

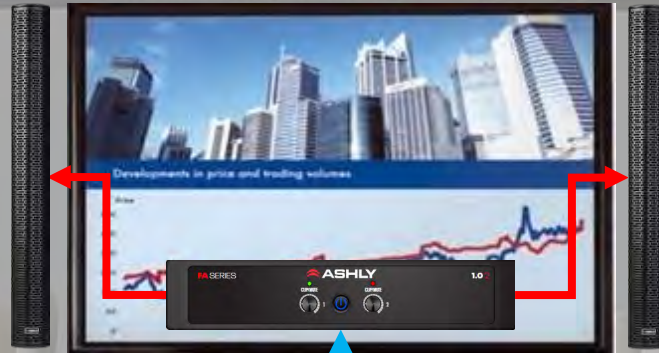


IS- With Flat-panel Displays

Conference Room
(37"-47" display)

2 x IS-2.8P

Wall-mounted speakers



FA-125.2 (behind screen)



PC audio

Hotel Lobby
(50"+ Display)

2 x IS-3.8P

Wall-mounted speakers



TV audio feeding FA-125.4 (behind screen)

IS HoW/Auditorium Packages

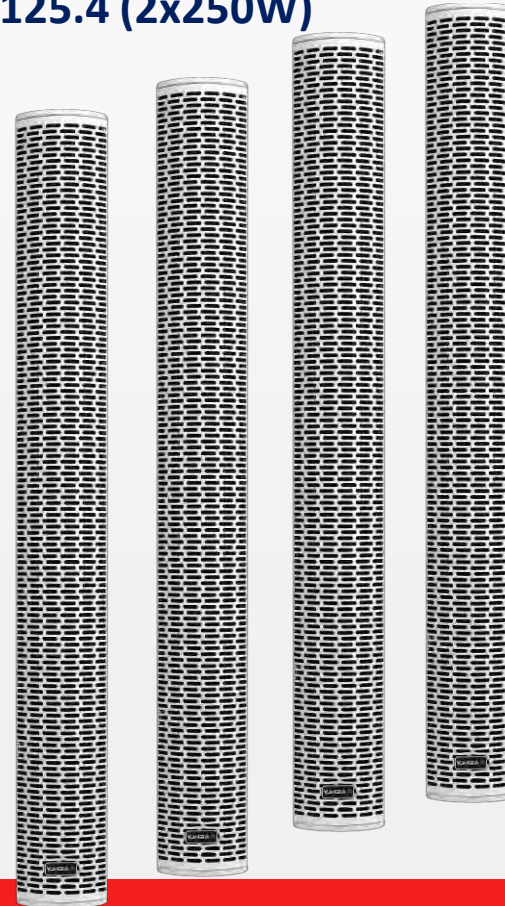
System for 100-250 seats

- 2 x IS-2.8P Wall-mounted speakers
- mXa-1502 Mixer-amp



System for 250-500 seats

- 4 x IS-3.8P Wall-mounted speakers
- 2 x ISJP2B
- FA-125.4 (2x250W)

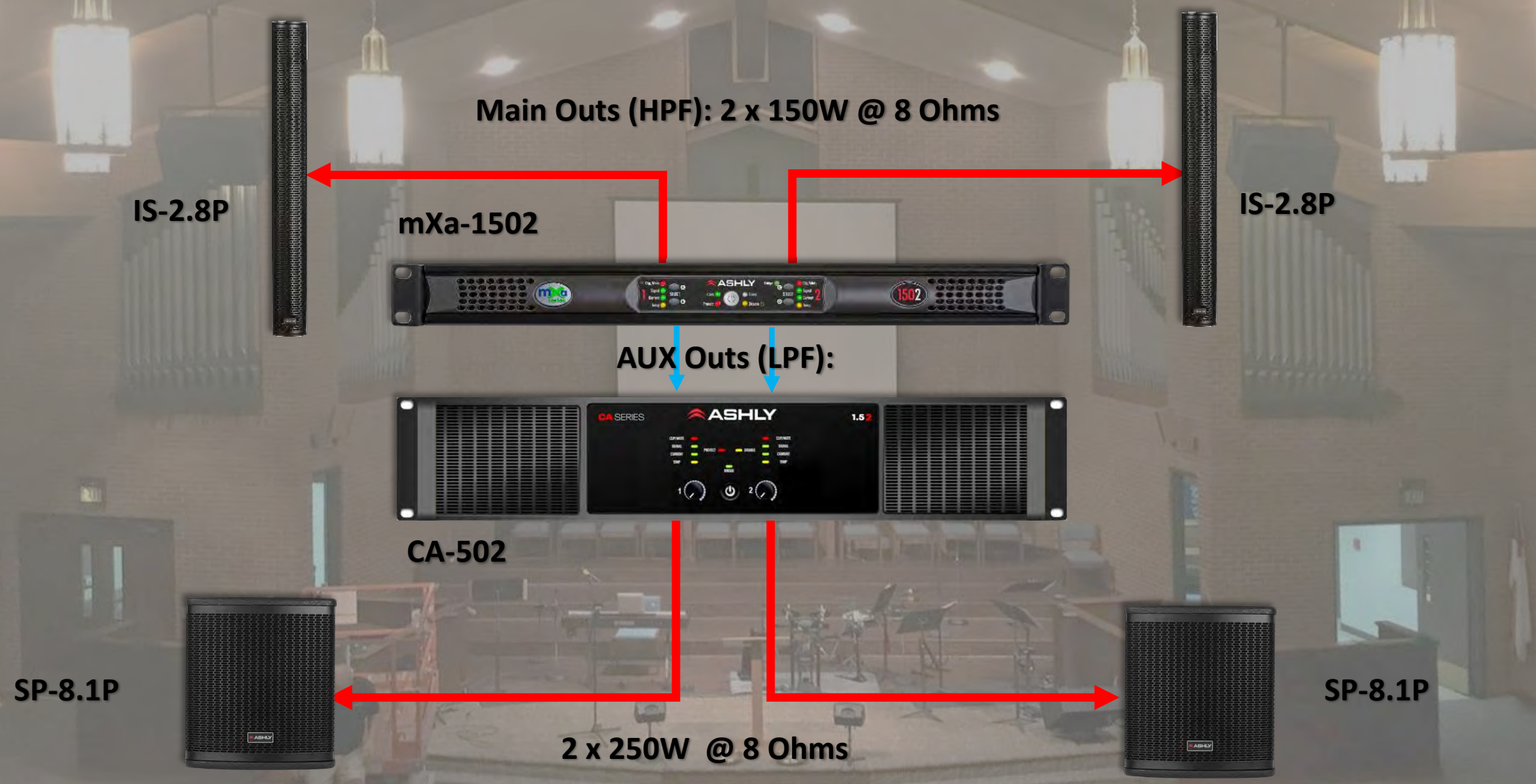


Add subs:

- 2 x SP-12.1P
- nX4002 or CA1.02



Small HoW/Auditorium



IS: Medium-sized HoW

2 x IS-3.8P
(Wall-mounted)

Vocal Mics

Presentation Mic

Instrument

2 x IS-3.8P
(Wall-mounted)



Pema 4250



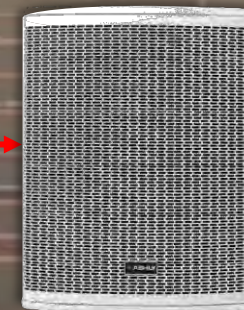
Mid/High Out
4x250W @ 4 Ohms

Low Out: 2 x 400W @ 8 Ohms

SP-12.1P



SP-12.1P



IS Portable Packages – Music/DJ/Hotel Events

Portable System for 50-200 people

- 2 x IS-2.8P Wall-mounted speakers
- mXa-1502
- 2 x IS-TR7B

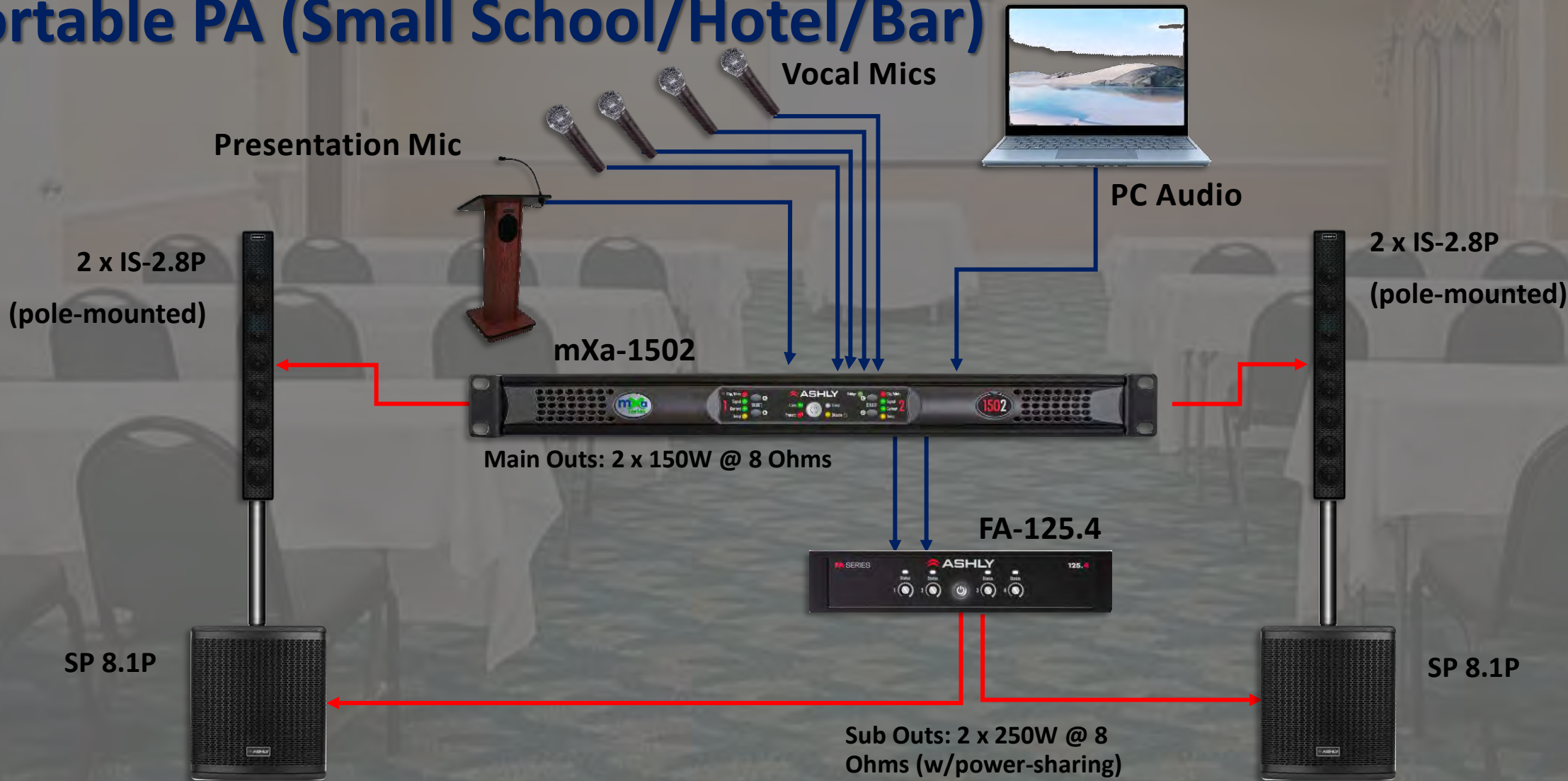


Portable System for 200-400 people

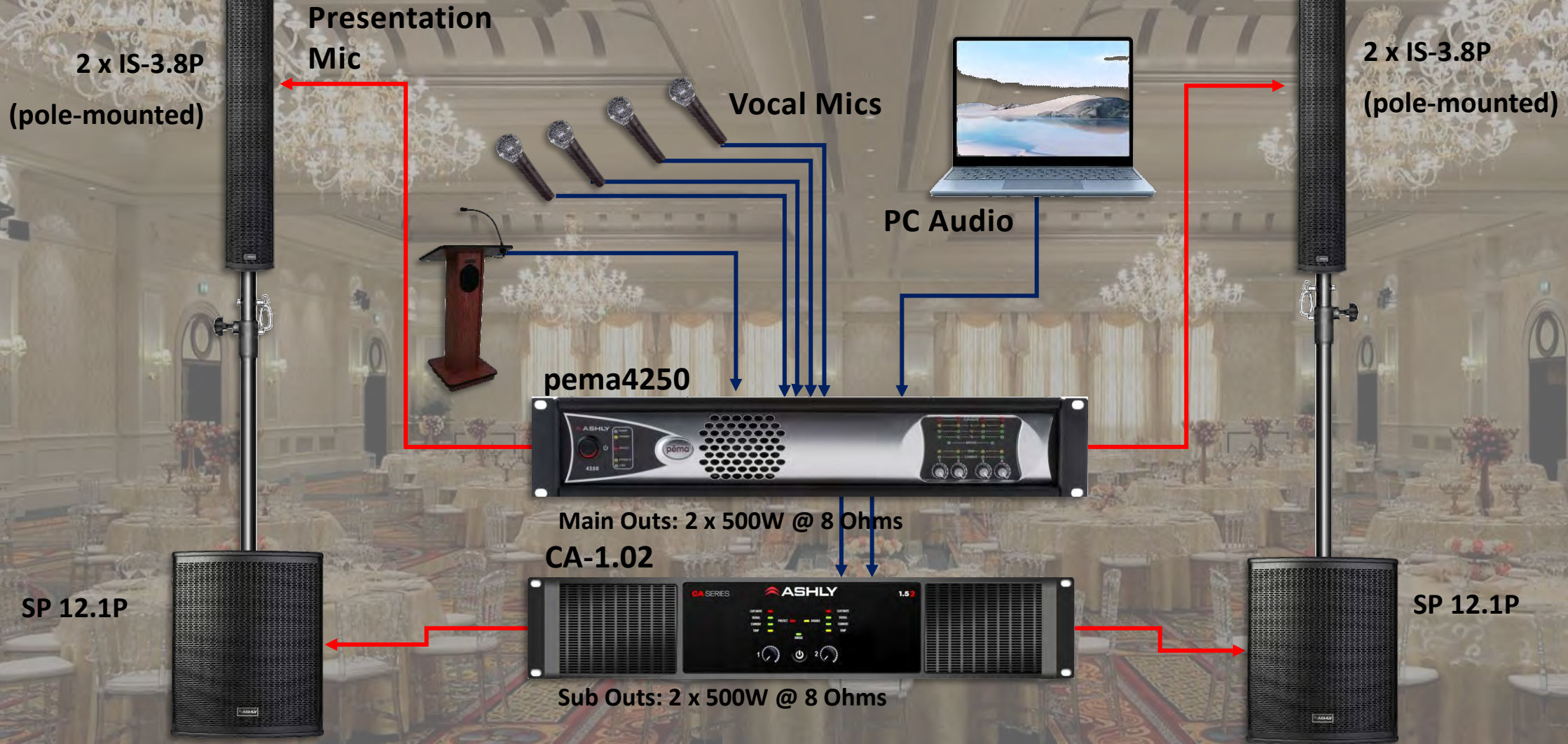
- 2 x IS-2.8P Wall-mounted speakers
- Pema4250
- 2 x IS-TR7B



Portable PA (Small School/Hotel/Bar)



Portable PA (Large Auditorium/Hotel/Bar)



IS Series

3 Key things to remember:

- *Transformer-less design*
- *Wide-Dispersion*
- *Custom DSP*



AW Series Surface-mount Speakers



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AW Series

3 Key Things to know:

- *Directivity Optimized Cross-Over for wider sweet spot*
- *Custom DSP processing for improved frequency response and coverage*
- *Integral part of Ashly Solution*



AW Series Key Features

- **IP-rated design**
 - IP52 (dripping water @15°)
 - IP54 (splash @ any angle)
 - Suitable for indoor or covered outdoor use
- **High-impact resin w/metal grille**
- **Surface-mountable**
- **Available in B or W**
- **Sold/Priced in Pairs**
- **NEW Plus (+) Versions**



AW-2.1P

IP52

** Should be used outdoors under eaves only*

- 2.5" Full-range
- 6 Ohms
- Small size, for limited coverage areas



Suggested Amp Match:

- SRA-2075
- TM-360

Ideal for: Retail-BGM ■ Museum/Retail Kiosks ■ Small area fill-ins



\$107 MAP

AW-3.2P

IP52

** Should be used outdoors under eaves only*

- 3" 2-way
- 8 Ohms
- Compact, Size/Performance
- Directivity Optimized Crossover



Suggested Amp Match:

- mXa-1502
- nXp-752/754/1502/1504
- SRA-2075
- TM-360



\$216 MAP

Ideal for: *Retail-BGM* ■ *Classroom* ■ *Courtroom* ■ *Museum/Retail Kiosks*

AW-5.2T+

IP54

** Should be used outdoors under eaves only*

- 5" 2-way
- 8 Ohms /30, 15, 7.5, 3.75W @70V
- Directivity Optimized Crossover
- Better sound for medium-sized distributed systems

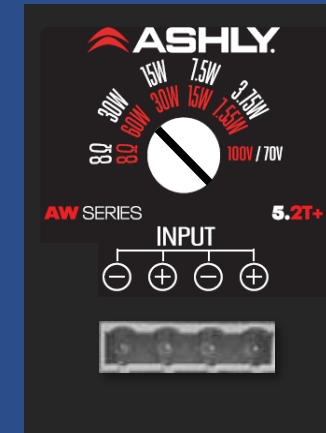


Suggested Amp Match:

- mXa-1502
- nXp-752/754/1502/1504
- Pema4125/8125

Ideal for: *Retail-BGM* ■ Bar/Restaurant ■ HoW ■ Patios

NEW



\$324 MAP

AW-8.2T+

IP54

** Should be used outdoors under eaves only*

- 8" 2-way,
- 8 Ohms / 60, 30, 15, 7.5W @70V
- Directivity Optimized Crossover
- Full-range sound for higher SPL in larger systems



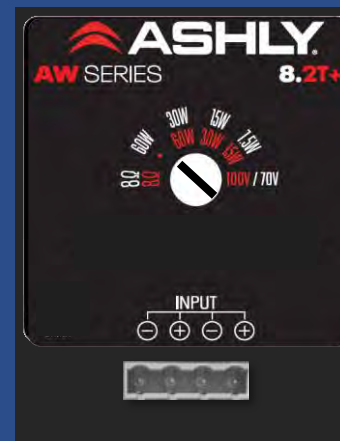
Suggested Amp Match:

- mXa-1502
- nXp-752/754/1502/1504
- nep4250/8250
- Pema4125/8125/4250 /8250

Ideal for: *Retail/Restaurant* ■ *HoW* ■ *Aerobics Studios* ■ *Patios*



NEW



\$433 MAP

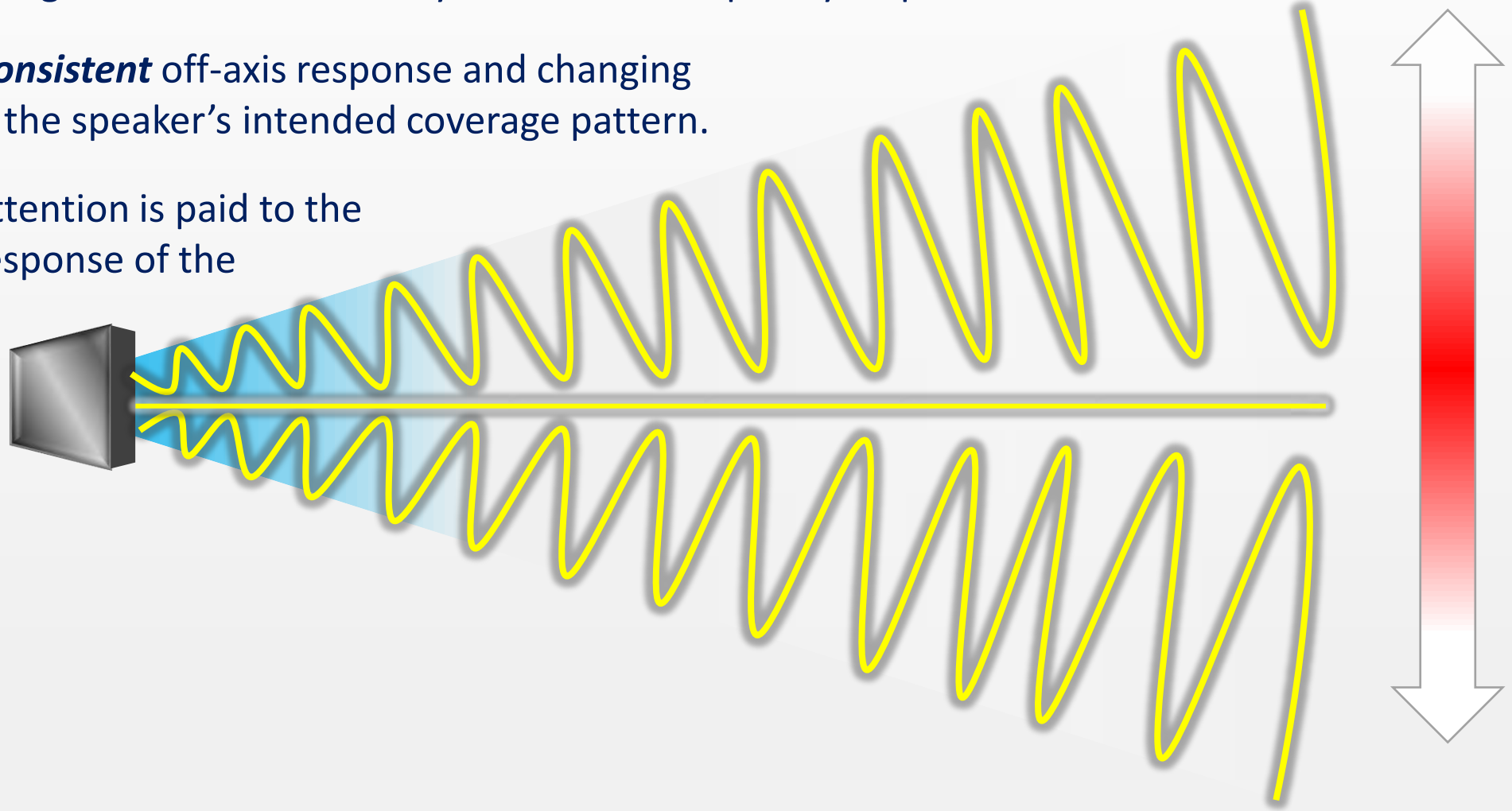
AW Series Mounts

- Supplied wall/ceiling bracket (2.1/3.2)
- Supplied wall/ceiling bracket (5.2/8.2)
- Supplied Tether/safety cable (3.2/5.2/8.2)
- Precise/locking Vertical and Horizontal angle adjustment



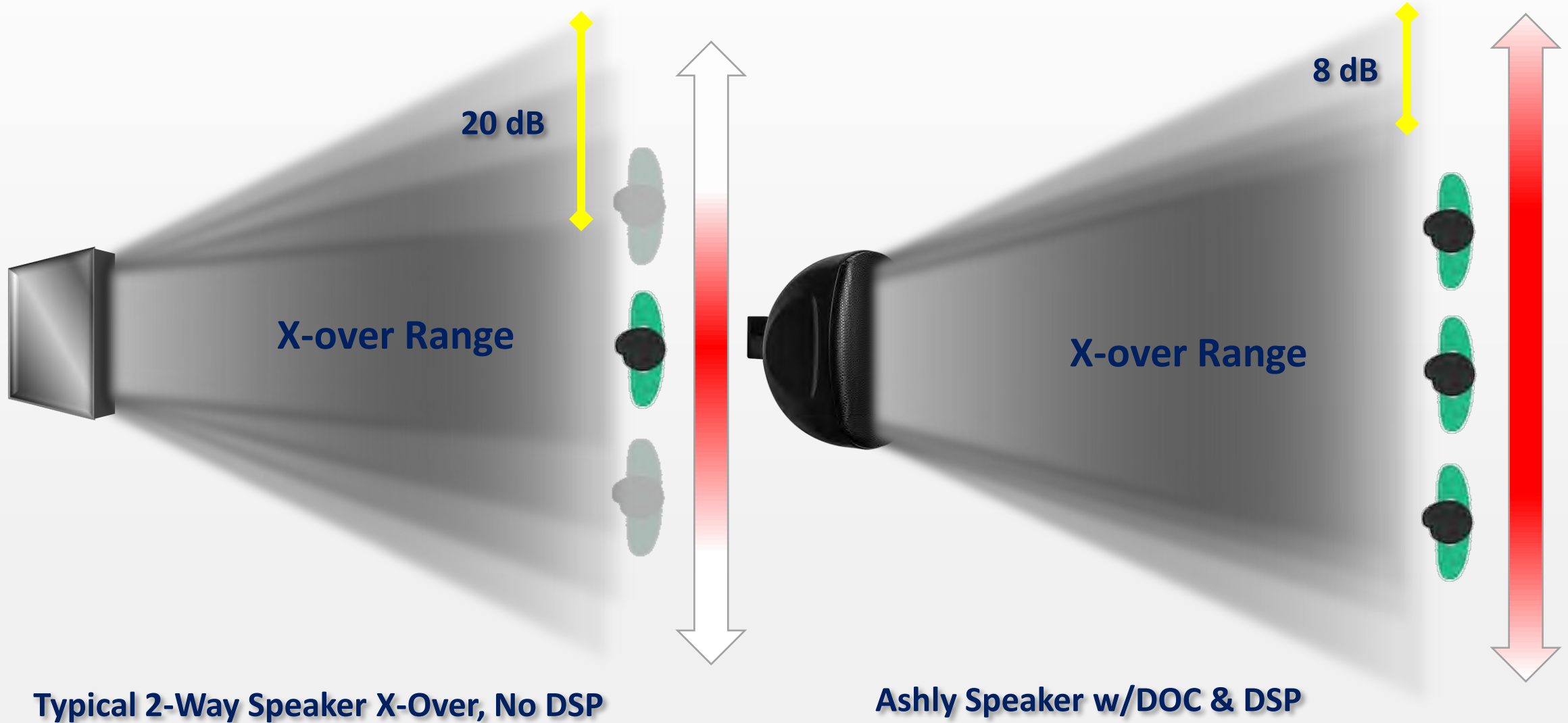
The Directivity Problem

- Many loudspeaker designs focus on a relatively flat **on-axis** frequency response.
- This can result in **inconsistent** off-axis response and changing sound quality within the speaker's intended coverage pattern.
- However, too little attention is paid to the **off-axis** frequency response of the loudspeaker system.



AW Series Comparison

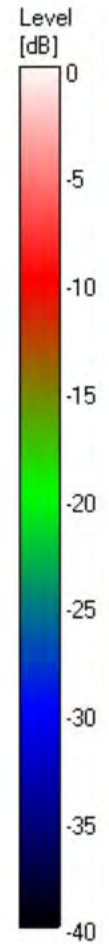
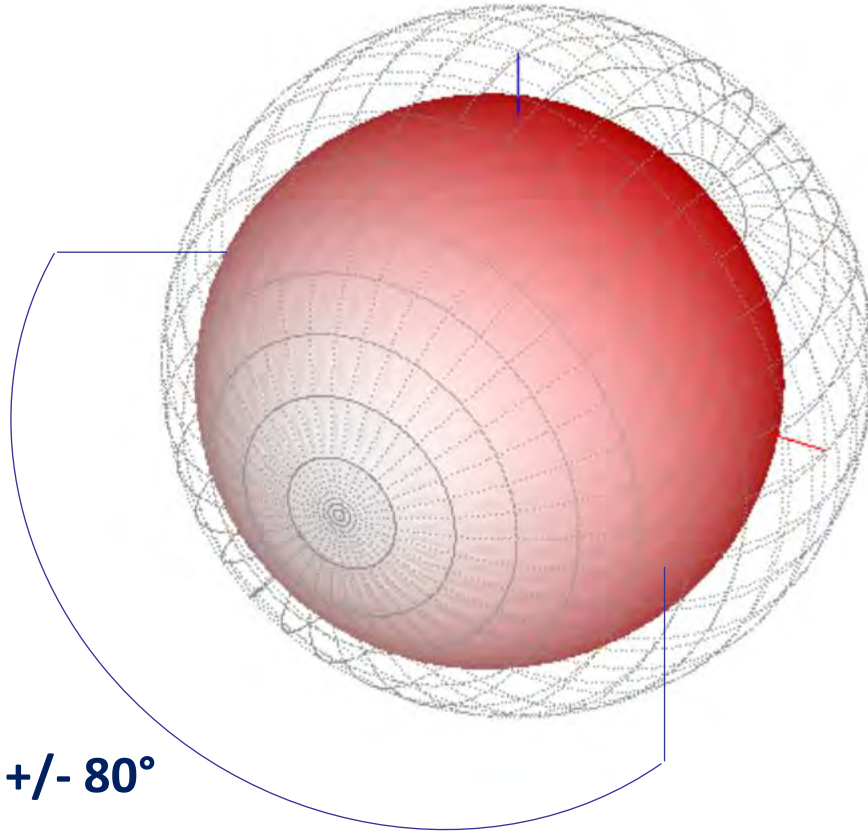
Frequency response $\pm 30^\circ$ Vertical Axis



AW Series – Coverage

AW-5.2T+ EASE Plot:

Data Shown: AW 5.2T (Ashly Audio)
Display Parameters: Frequency: 1000Hz (1/1 Octave)



Wide “Sweet Spot” +/- 80°

AW Series – The Competition

- **Wider dispersion (sweet spot) than most.**
 - Not designed like studio monitors
- **Uses Ashly DSP for optimum performance**
- **Performs as well or better than more expensive models**
- **More adjustable, precise mounting system**



FGM/BGM/Announcements in:



■ Patios



■ Public Spaces



■ Retail Stores



■ Bar-Restaurants



■ School Cafeterias

Sound Reinforcement/Playback /Fill-in for:



■ **Worship Spaces**



■ **Courtrooms**



■ **Auditoriums**



■ **Museum Exhibits**



■ **Sports/Health clubs**

AW Series System Examples



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AW Series: Restaurant/Bar Packages

Small Bar/restaurant 2-4 Zones 150 people

- 8 x AW-5.2T+ Wall-mounted speakers
- mXa-1502



Add Subwoofer:

- SP-8.1P
- FA-125.2



Medium Size Bar 4-zone 300 people

- nXp4004
- 8 x AW-5.2T+
- 4 x AW-8.2T+
- 2 x IS-2.8P



Add Subwoofer (bar):

- SP-12.1P
- FA-125.2



AW Series: Restaurant/Bar (2 Zone BGM/Paging)

AW-5.2T+
Zone 1

AW-5.2T+
Zone 2

TV Sound (P4)

Paging Mic (P1)

mXa-1502
(Level 1 DSP)

2 x 150W @ 70V



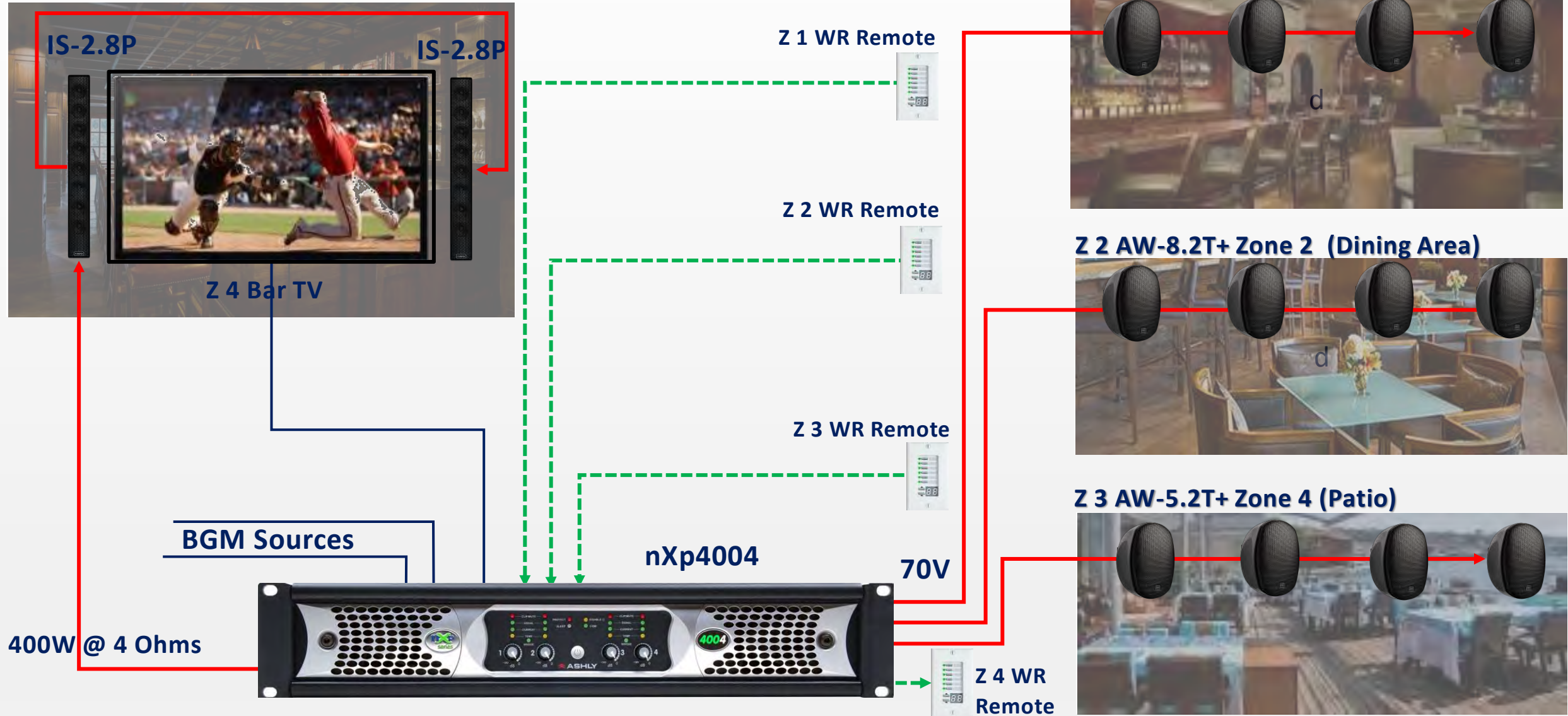
FM Tuner (P0)



Streaming music player (P0)



AW Series: Multi-zone BGM Bar/Restaurant



Small AW Packages

Kiosk System

- 2 x AW-2.1P
- TM-360



Kiosk, small shop 1,000 Sq ft

- 2 x AW-3.2P
- TM-360



Retail 2,000 Sq ft, classroom (30 seat)

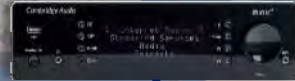
- 4 x AW-5.2T+
- FA-125.2



AW-2.1P/3.2P Museum Kiosk

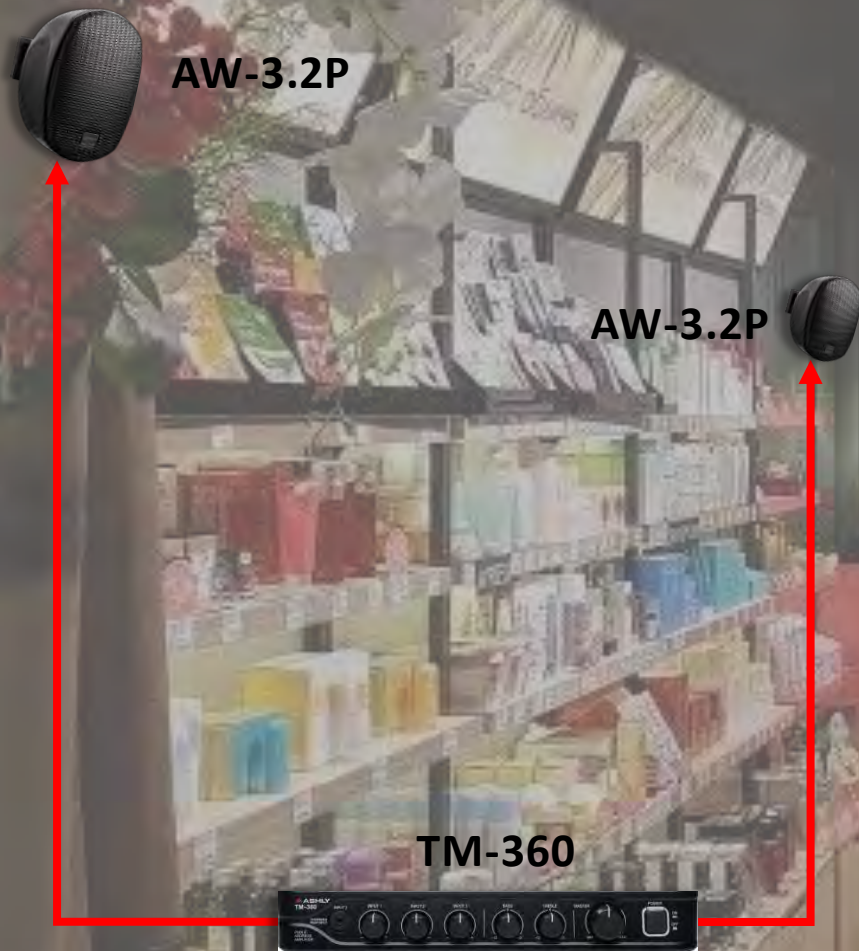
AW-2.1P/3.2P
(mounted above display)

Media Source

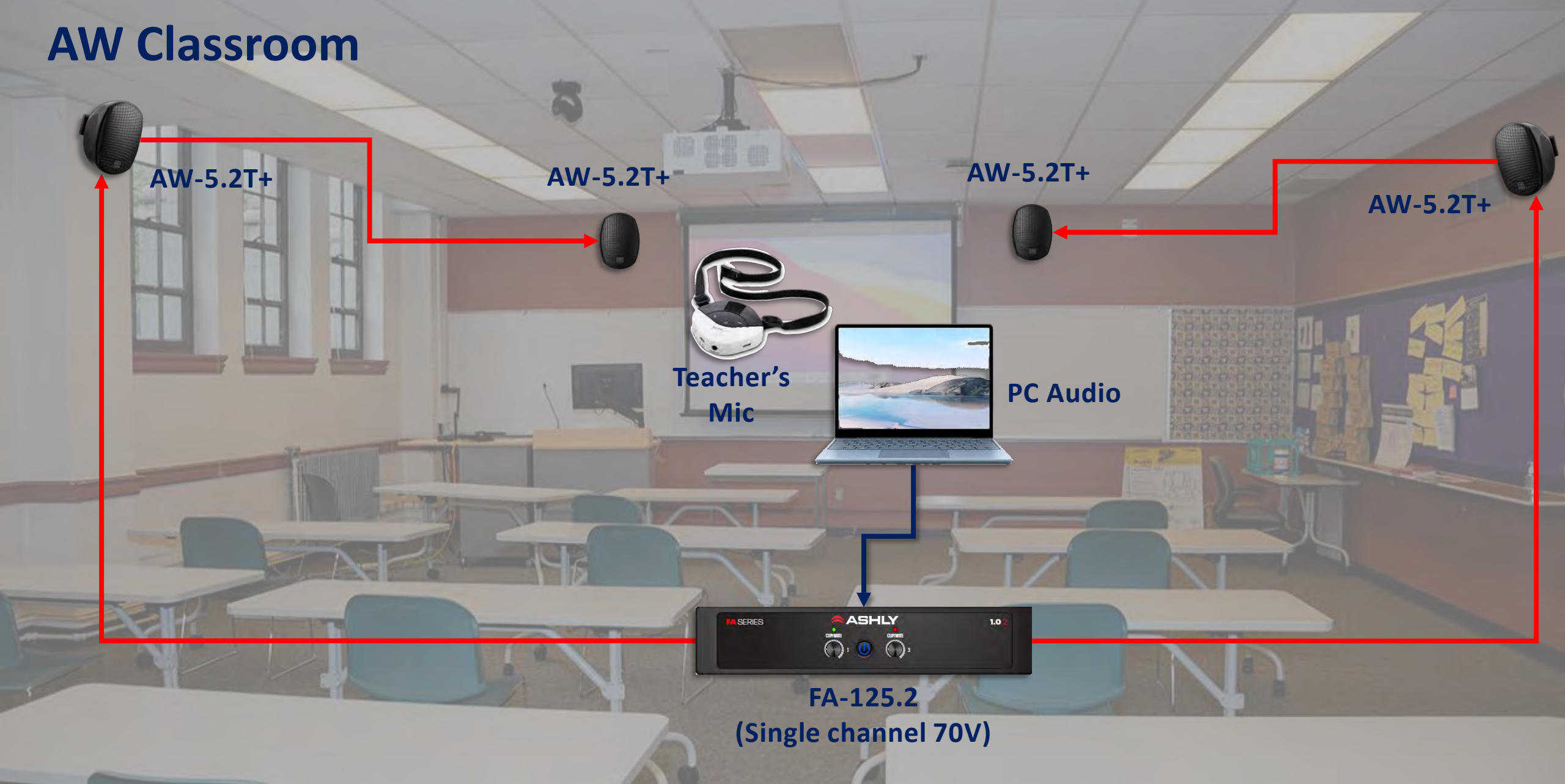


Audio feeding TM-360
(inside kiosk or behind screen)

AW Small Shop



AW Classroom



Large AW Packages

Exercise Room (30 people)

- 4 x AW-5.2T+
- FA-125.2



Add Subwoofer:

- SP-8.1P
- FA-125.2
- 3.6SP



Aerobics Studio (40-50 people)

- 4 x AW-8.2T+
- nep4250

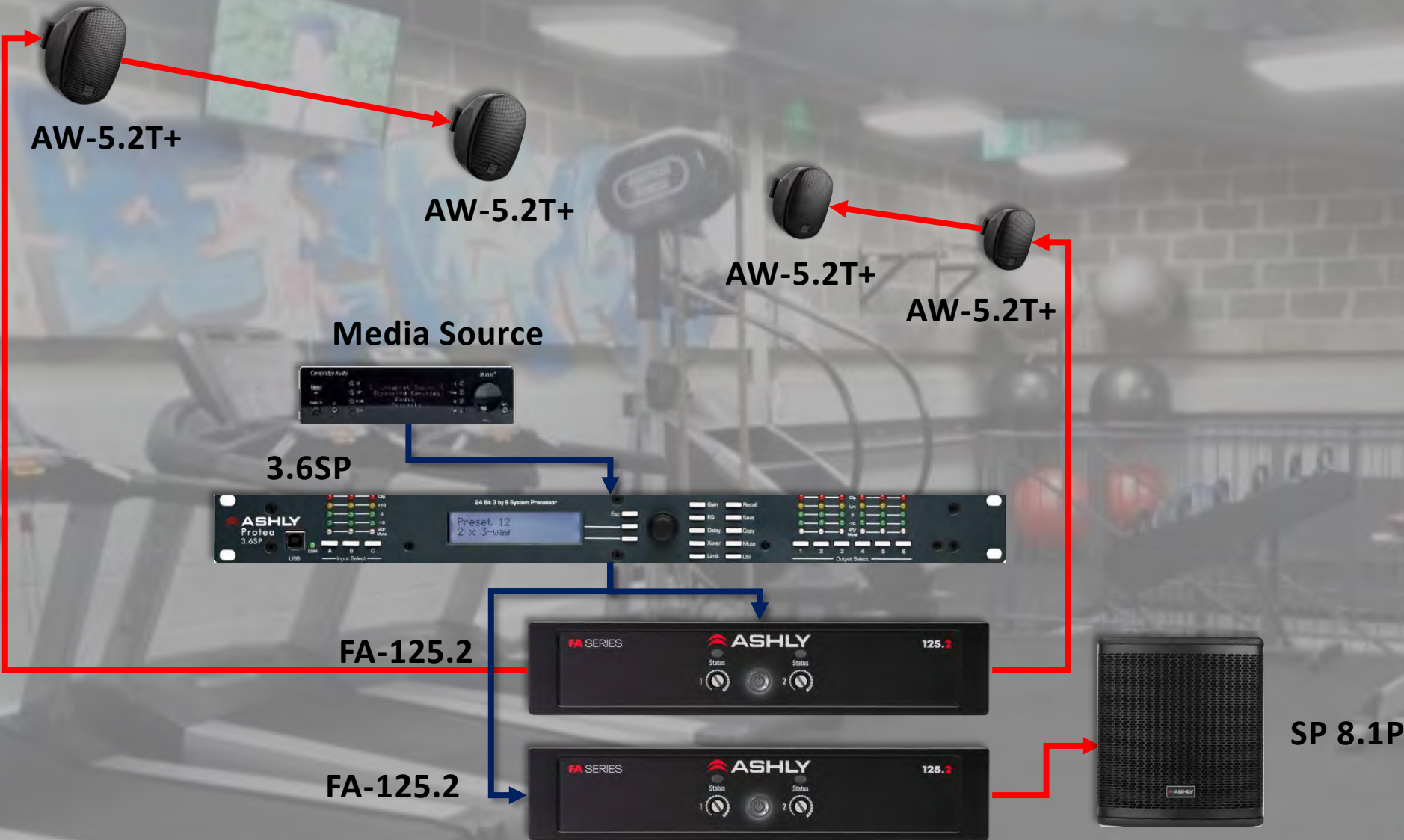


Add Subwoofer:

- SP-12.1P



Large AW Package-Exercise Room



Large AW Package-Exercise Room

AW-8.2T+

Media Source AW-8.2T+

AW-8.2T+

AW-8.2T+

SP12.1P

Media Source

Instructor Headset



nep4250

2 x 250W @ 4 Ohms, 500W @ 8 Ohms (Bridged)

Large AW Package-Multi-Zone Retail

4 Zone BGM system -2,500-5,000 Sq ft

- 8 x AW-5.2T+
- Pema4125.70

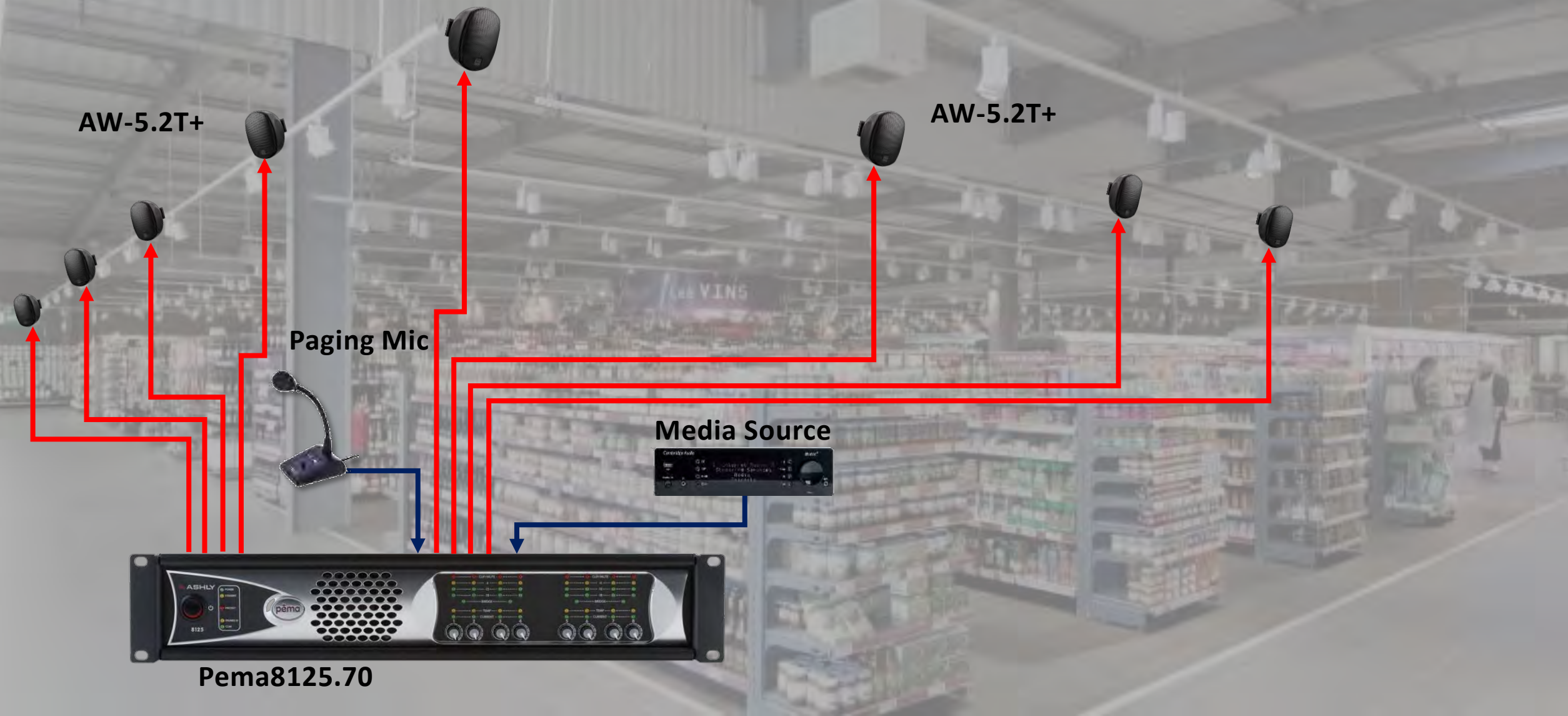


8 zone BGM system-5,000-10,000 Sq ft

- 16 x AW-5.2T+
- Pema8125.70



Large AW Package-Multi-Zone Retail



Large AW Package-Distributed HoW

Liturgical HoW (300-600 seats)

- 10 x AW-8.2T+
- nep4125.70

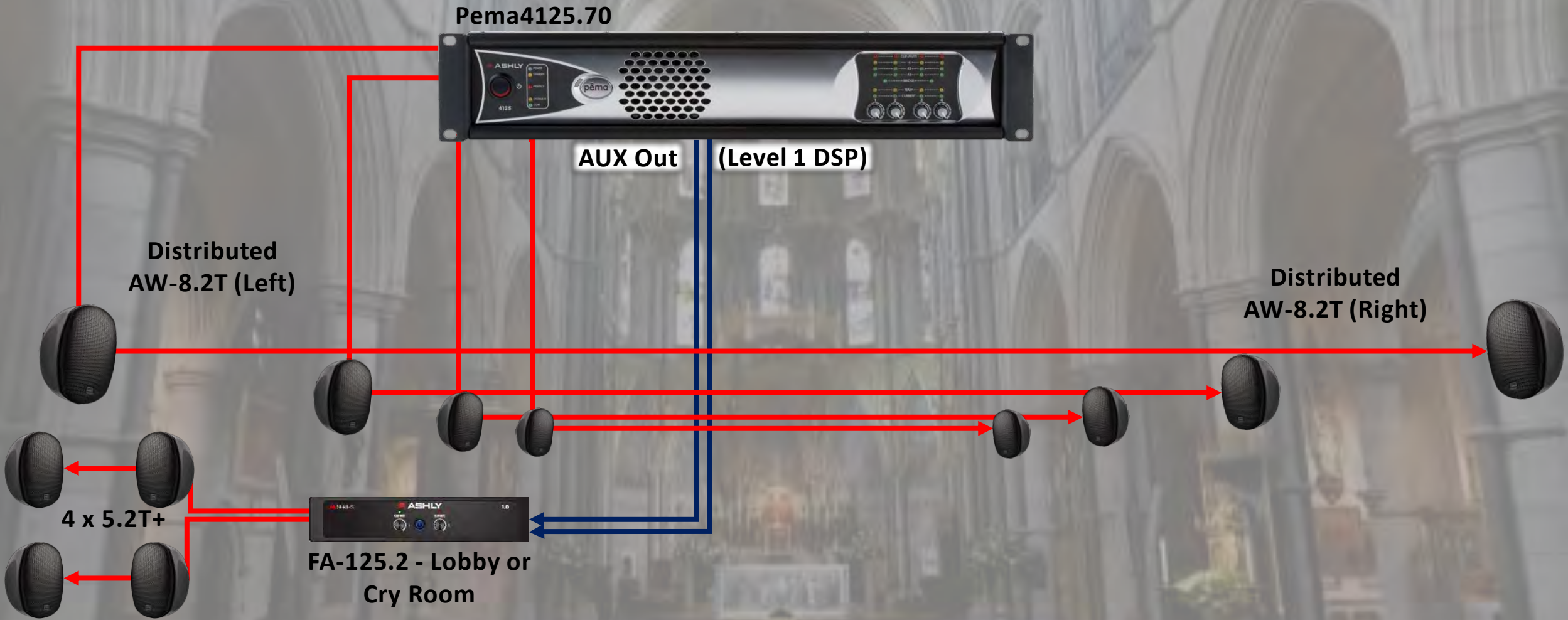


Add Zones: (cry room, vestibule):

- FA-125.2
- 4 x AW-5.2T+



Large AW Package-Distributed HoW (liturgical)





Wrap-Up



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Conclusion – 3 Things to remember

IS Series

- Transformer-less design
- Wide-Dispersion
- Custom DSP



AW Series

- DOC for wider “sweet spot” in vocal range
- Custom DSP for enhanced performance
- Precise, locking wall mounts



The Ashly Equation



- *Proprietary Design & Custom DSP for optimized results not easily achievable w/other systems*
- +
- *Resources (Presets, A&E & EASE files) downloadable from Ashly.com*
= Ashly amps, processors & speakers that work together for best performance!





Quærki Yo 6?





It's Just the Tip Of the Iceberg!