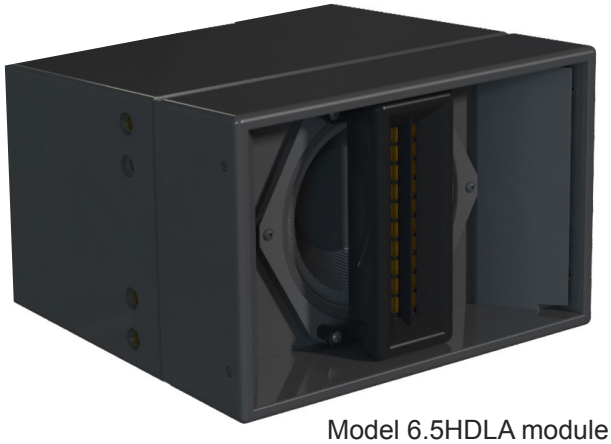
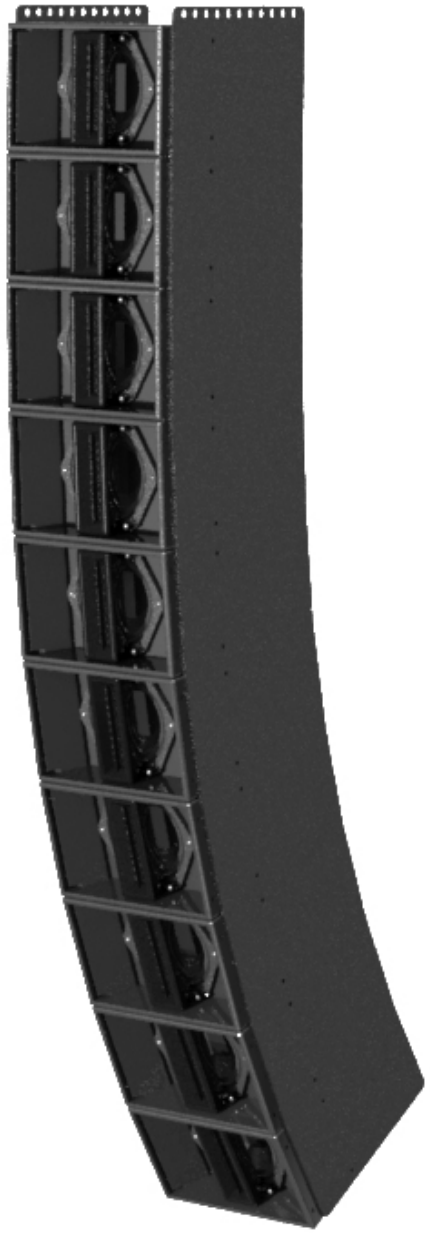
ImmersiveHD 6.5HDLA Line Arrays



Model 6.5HDLA module

Description:

Utilizing our Model 6.5HDLA module as the building block for customized Immersive Array's. Systems can be designed for any fixed application or venue with up to 16 modules in a single hang. Improved front to back SPL over the entire audience area, typically +/- 2db.
High impact audiophile-quality sound with tightly controlled directivity for superior clarity and intelligibility in any environment. Perfect in live venues, performing arts theaters, houses of worship, auditoriums and outdoor venues.



Features:

- Ultra-fast transient response and higher instantaneous peak level for faithful signal reproduction and improved dynamic range
- Wide Horizontal dispersion for excellent stereo imaging and larger listening area
- Well defined vertical directivity and cylindrical wave fornt delivering more direct to reflected sound for high inteligablity in reverberate spaces and the ultimate long throw, high definition system.
- Robust enclosure and components
- Unique woofer and ribbon wave guides for better dispersion and fidelity
- All stainless steel hardware and powder coated mounting brackets
- Aircraft Aluminum side panels for strength, aesthetics and simple single box mounting or hanging with built in fly & pullback points
- Optional Pan and Tilt wall mount kit 4 or 6 box Arrays only
- NL4 space saving vertical position

Applications:

- Houses of Worship
- Performing Arts Theaters
- Athletic Facilities
- Convention Centers
- Theme Parks
- Museums
- Airports & Train Stations
- Challenging Acoustic Spaces
- Multi-Purpose Venues
- Audio, Video Production

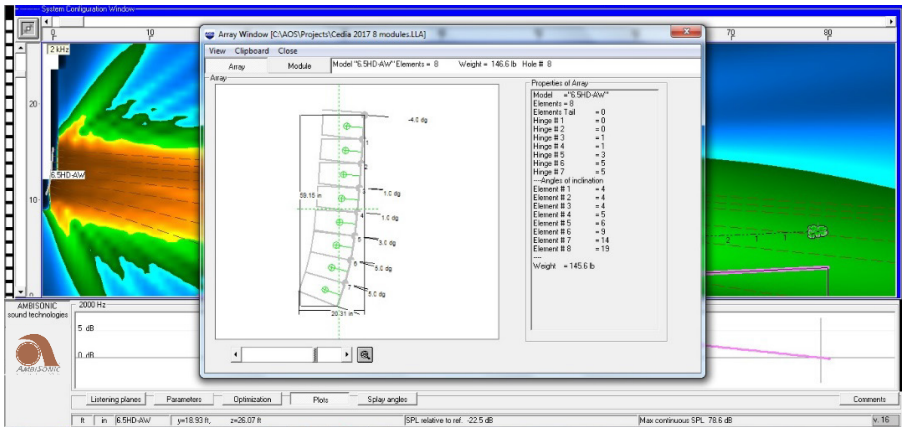
Ambisonic Systems LLC 1990 N. McCulloch Blvd. Ste. D 222 Lake Havasu City, AZ 86403 Voice: 928.453.5111 Fax: 928.453.5550
info@ambisonicsystems.com www.ambisonicsystems.com

HDLA Line Array Details

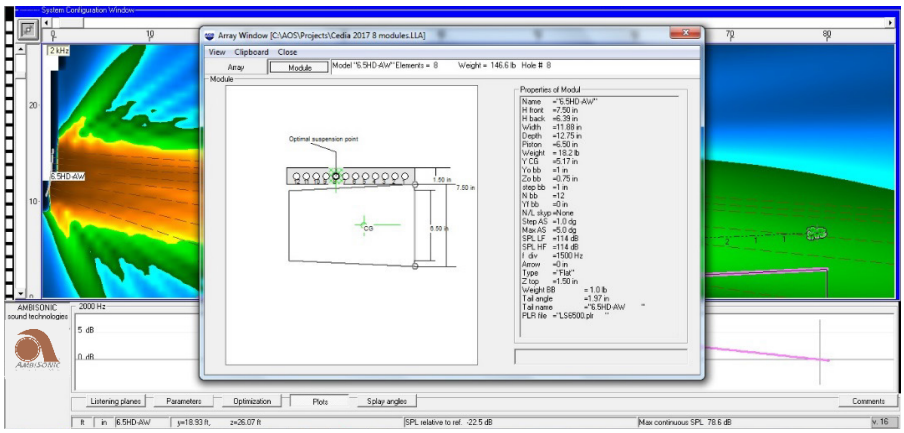
Custom Designed “Fixed Line Arrays”

Ambisonic Systems immersive HDLA Line Arrays can be configured using from four (4) to sixteen (16) of the 6.5HDLA (indoor) or 6.5HDLA-AW (outdoor) speaker modules (boxes). Desiging and optimizing your array configuration is easy using our free AOS (array optimization software). The AOS software can automatically configure the optimum splay angles for each of the 6.5HDLA modules. Additional information such as SPL over distance mapping, optimal suspension point, array weight and geometery can be displayed. AOS is simple and intuitive, producing the most accurate line arrays for any venue.

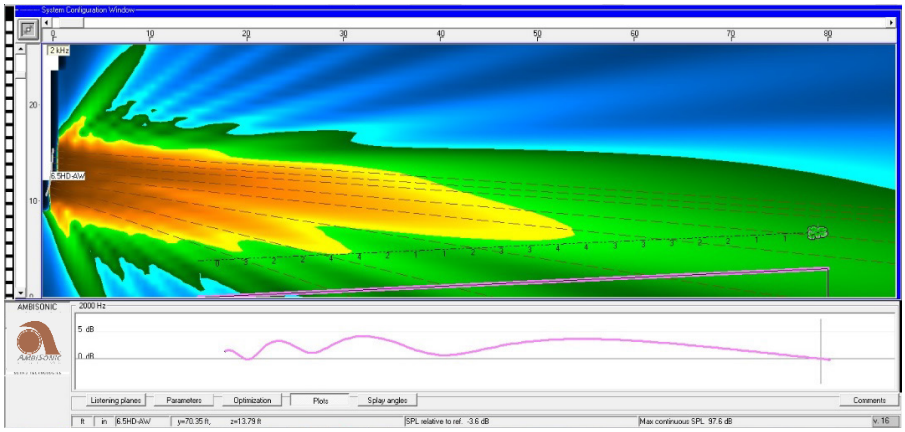
Module Splay Angles



Optimal Array Suspension Point



SPL / Distance



Typical Eight (8) Module Line Array

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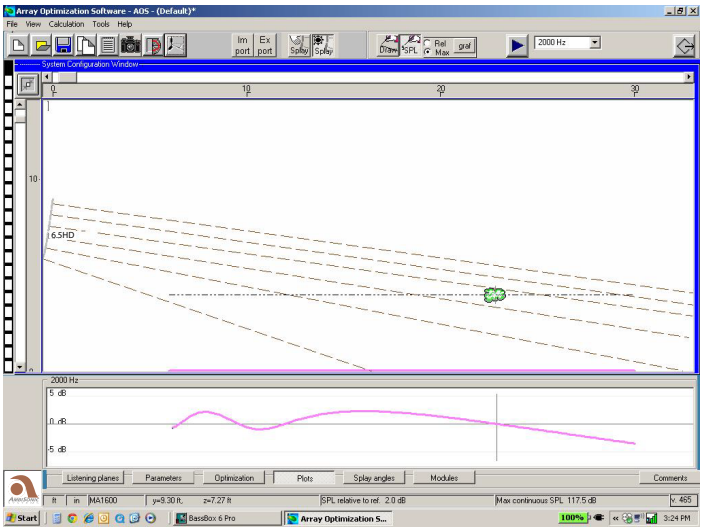
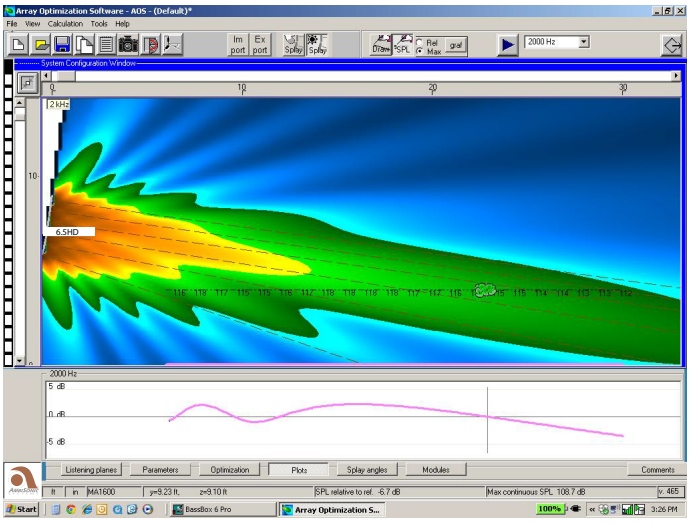
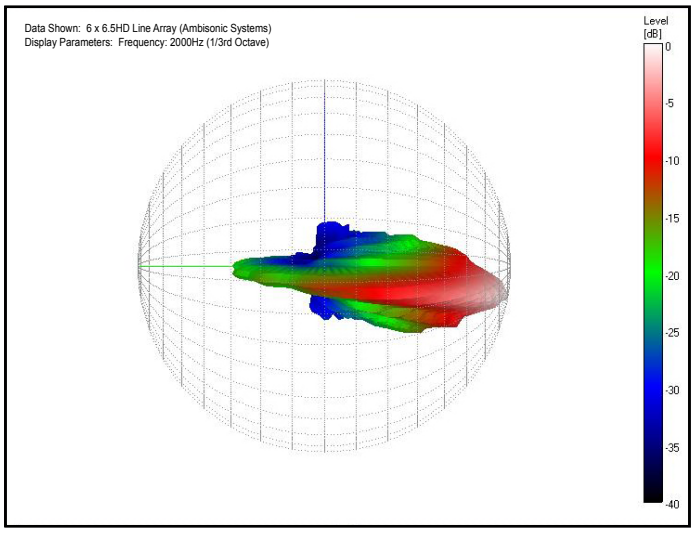
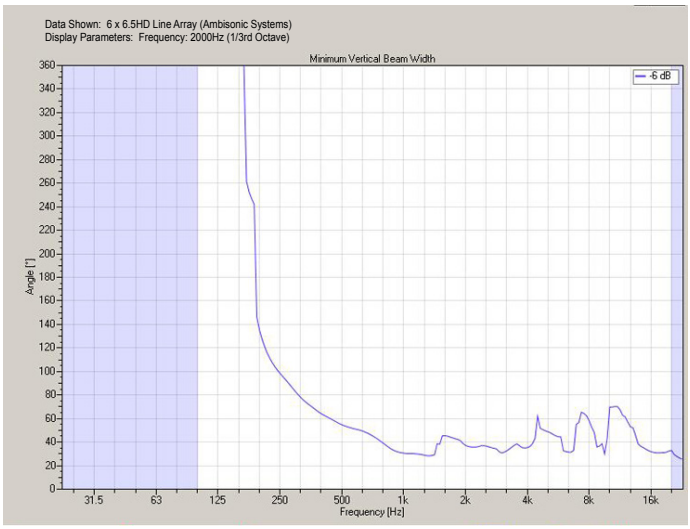
AOS Array Optimization Software

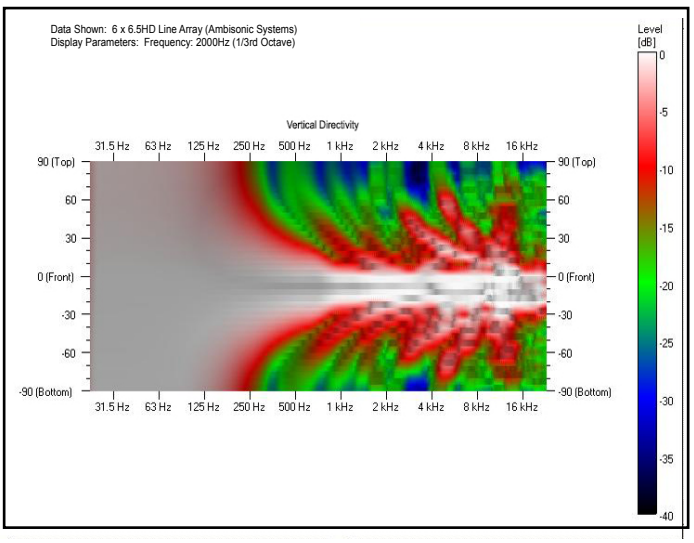




Speaker Lab EASE GLL Directivity Plots







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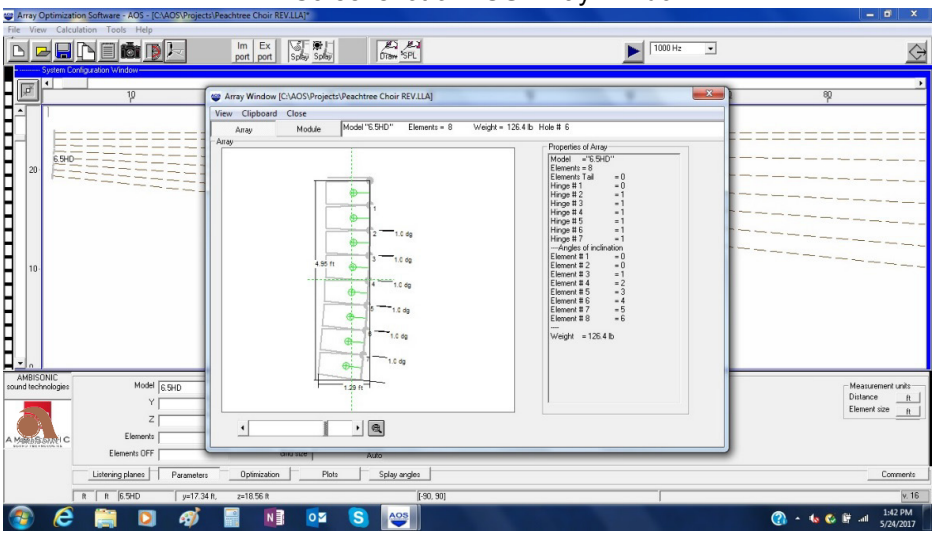
HDLA Line Array Details

Custom Designed “Fixed Line Arrays”

After the array configuration has been determined for the listening space using AOS, we then design and manufacture custom side plates with fixed angles between boxes in the shape of the array utilizing 6061-T6 aluminum for clean asthetics. Built-in rigging points and single box form factor for ease of hanging the array. Design safety factor is 12.5 to 1 with 16 boxes in a single hang.

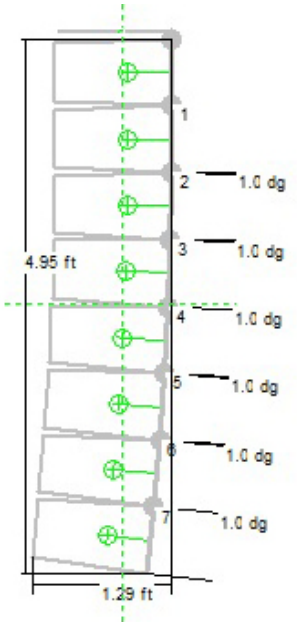
Screenshot of **AOS** Array Window



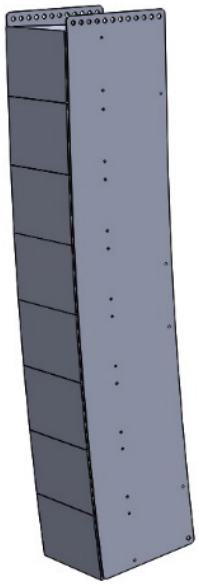
NOTE:
When ordering HDLA Custom Line Arrays we require one of the following files for the “Array” configurations: AOS .LLA file (Perfered) or AOS Screenshot of “Array Window” or AOS HTML Report file.

Factory Support for Array configurations and AOS Software Contact:
Tom Harrison
tom@ambisonicsystems.com

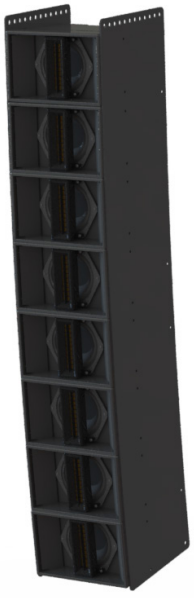
Step 1
Optimized Angles From **AOS**



Step 2
3D Modeled Side Plates



Step 3
Custom Manufactured Array

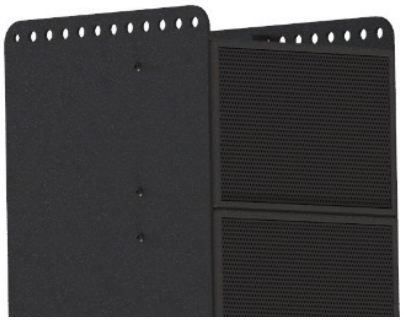


HDLA Line Array Details

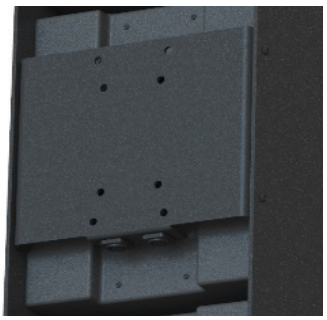
Immersive HD series HDLA Line Arrays have been designed to be an ergonomic solution for simple installation and clean line aesthetics. Integrated “Fly Points” are standard on all of our Line Array configurations, no need to purchase that expensive and unsightly rigging frame. The built in universal wall mounting receiver / IO bracket has hole patterns for multiple rear mounting options *(4-6 Module arrays only)*. Standard NL4 Speakon I/O low clearance connections. All Immersive HD series Line Array products are available in either indoor or outdoor “All-Weather” versions with your choice of satin black or white finish.

HDLA Line Array Mounting

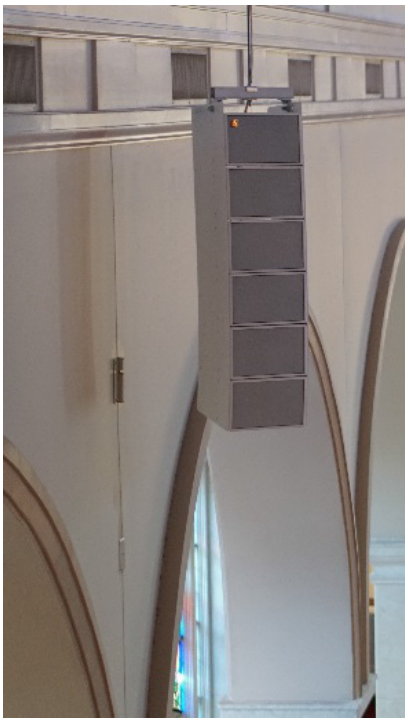
Built-in Rigging (Fly) Points



Rear Mounting Plate with “Speakon” I/O



Custom HDLA Line Array installations at “Peachtree Road United Methodist Church”, Atlanta, GA



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HDLA Line Array Specifications

Line Array Model #		HDLA-4	HDLA-6	HDLA-8
		4 x 6.5HDLA Modules (boxes)	6 x 6.5HDLA Modules (boxes)	8 x 6.5HDLA Modules (boxes)
Frequency Response		50hz-16khz	50hz-16khz	50hz-16khz
Max SPL cont/peak	ft note 1	122db/128db	124db / 130db	125db/131db
Sensitivity 1w/1m	ft note 2,3	98db	99.0db	101db
Nominal Impedance	ft note 3	8 ohms	6 ohms	4 ohms
Power Handling	ft note 4	400W AES 800W program 1600W peak	600W AES 1200W program 2400W peak	800W AES 1600W program 3200W peak
Rec Amp power		400W - 1600W FTC @ 8 ohms	600W - 2400W FTC @ 8 ohms	800W-3200W FTC @ 4ohms
Weight	6.5HD	66.2 Lbs (30kg)	98.8 Lbs (45kg)	131.4 Lbs (61kg)
	6.5HD-AW	73.8 Lbs (33.5kg)	110.2 Lbs (50kg)	146.6 Lbs (66.6kg)
Dimensions	ft note 5	Width 11.84" (30cm) Height and Depth depending on array configuration		
System Coverage	110-deg Horizontal (average from 1k to 8k), Vertical defined by Array configuration			

Line Array Model #		HDLA-10	HDLA-12	HDLA-16
		10 x 6.5HDLA Modules (boxes)	12 x 6.5HDLA Modules (boxes)	16 x 6.5HDLA Modules (boxes)
Frequency Response		50hz-16khz	50hz-16khz	50hz-16khz
Max SPL cont/peak	ft note 1	128db / 134db	132db / 138db	134db / 140db
Sensitivity 1w/1m	ft note 2,3	103db	103db	104db
Nominal Impedance	ft note 3	3.2 ohms	6 ohms	8 ohms
Power Handling	ft note 4	1000W AES 2000W program 4000W peak	1200W AES 2400W program 4800W peak	1600W AES 3200W program 6400W peak
Rec Amp power		1000W-4000W FTC @ 4 ohms	1200W-4800W FTC @ 8 ohms	1600W-6400W FTC @ 8 ohms
Weight	6.5HD	164 Lbs (74.5kg)	196.6 Lbs (89.4kg)	261.8 Lbs (119kg)
	6.5HD-AW	183 Lbs (83.2kg)	219.4 Lbs (99.7kg)	292.2 Lbs (132.8kg)
Dimensions	ft note 5	Width 11.84" (30cm) Height and Depth depending on array configuration		
System Coverage	110-deg Horizontal (average from 1k to 8k), Vertical defined by Array configuration			

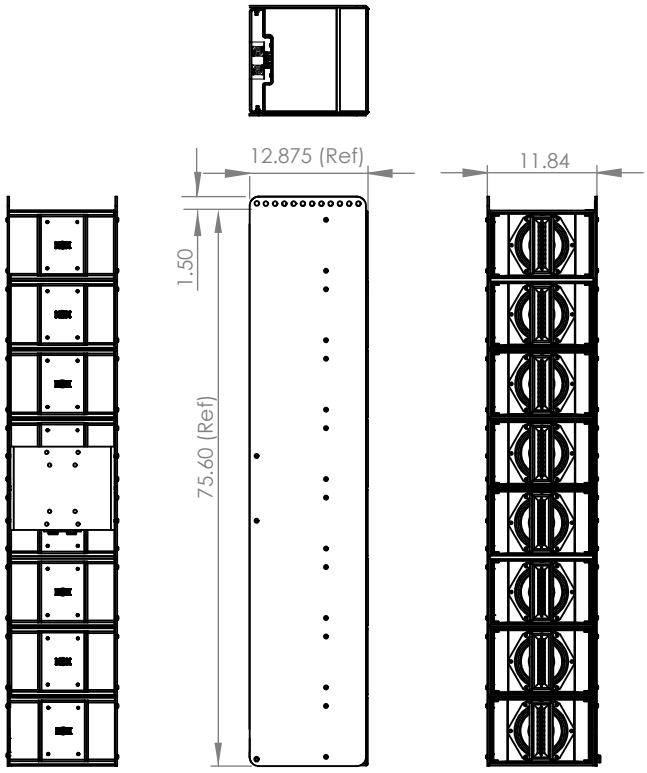
Foot note 1 Calculated for 1 meter based on typical Array configuration. Use AOS for maximum continuous SPL at frequency over distance or broadband depending on array configuration.

Foot note 2 Based on typical Array configuration measured at eight meters 2.83v and extrapeolated to one meter.

Foot note 3 Based on single-channel operation / series-parallel wiring. Custom wiring available for amplitude shading with multi channel-operation.

Foot note 4 With protective HPF, 50Hz, 24db/oct, butterworth.

Foot note 5 Use AOS for array size.



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