

product specifications



Y10

- POWERFUL 3-WAY MID-SIZE LINE ARRAY
- FOR USE IN 3- and 4-WAY SYSTEMS
- PRECISE ANGULAR CONTROL
- HIGH SPL
- VERSATILE & SCALABLE



The Y10 is the highest fidelity, mid-size 3-way line array in it's class, and fulfils a need for a more versatile and scalable HIGH power line array.

Employing a single Adamson mid/high Co-Linear drive module (with 2 patents granted and 2 pending applications). The Adamson drive module has a co-axial entrance and a co-linear exit comprised of a high frequency sound chamber mounted within a mid frequency sound chamber. The drive module is powered by a proprietary 9" Kevlar mid and a single 1.5" 4" diaphragm HF compression driver.

Together, the drive module and trapezoidal cabinet design create a smooth, slightly curved, seamless wave front with no gaps between cabinets. The Y-Axis series are the only line arrays that can create slightly curved iso-phase sound sources in the high and mid frequency sections - delivering a single uniform wavefront of mid and high frequency sound. Mid lobing, comb filtering and time-smear are virtually eliminated, giving the Adamson Y-Axis line array unrivaled sonic accuracy.

The Y10 - features Adamson's light weight ND10-L 10" Kevlar, neodymium drivers. The Y10 has a defined coverage pattern of 100°-6dB / 90 °-3dB by 5 degrees. The vertical coverage is determined by the number of cabinets added to the array.

The Y10 comes complete with a sliding hinge rigging system with six one degree increments, allowing precise angular positioning by adjusting the extension of the sliding hinge, while the front of the array remains closed.

When coupled with the Adamson T-21Sub, the Y10 can go from the smallest venue to a large rock festival. The Y10 is a versatile main system, or a high-powered complement to the Y18 as a down or side fill system. To ensure complete Y-Axis series compatibility, the Y10 and Y18 use the same rigging system. Adamson also offers under hang kits for use with Y-Axis and the SpekTriX Series.

Light aluminum dollies, and all the components for rigging the Y-Axis come standard. Waterproof Soft Covers with customized silkscreening and black powder coated aluminum rigging frames to support 16 or 24 Y10's are available as optional accessories.

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FEATURES

Live Concert Reproduction
Theaters
Houses of Worship
Large Clubs
Down fill for Y18
Center cluster

ADDITIONAL INFORMATION

Adamson Co-Linear Drive Module
Two Adamson ND10-L 10" Kevlar Neodymium LF Drivers
One Adamson YX9 9" Kevlar MF Driver
One 1.5" exit HF Compression Driver
Aluminum Dolly Board
Proprietary Stainless/Aluminum Slide Hinge Rigging



PHYSICAL DATA

Dimensions & Weight

Height (cm)	10.5" (26.7 cm)
Width (cm)	42.75" (108.6cm)
Depth (cm)	24.5" (62.3cm)
Weight (kg)	126lbs. (57.2kg)
Dolly (kg)	35lbs. (15.9kg)
Finish	Black Waterbased Bake Enamel
Rigging	Stainless/Aluminum Slide Hinge
Cabinet Construction	Rugged 11-ply Baltic Birch
Accessories	Aluminum Dolly
Optional Accessories	Powdercoated Black Aluminum Rigging Frame Waterproof Custom Soft Cover

TECHNICAL DATA

Frequency Response (Hz)	
Full Range Preset	60Hz to 18kHz
Xover Preset	90Hz to 18kHz
Maximum SPL (continuous)	
with Preset Xover mode	133.6dB (138.5 / 2 units)
with Preset Full range	133.8dB (138.5 / 2 units)
Maximum SPL (peak)	
with Preset Xover mode	139.6dB (138.5 / 2 units)
with Preset Full range	133.8dB (138.5 / 2 units)
Sensitivity (2.83v/1m)	
LF	99dB (105 dB using 2 units)
MF	104dB (110dB using 2 units)
HF	112dB (116dB using 2 units)
Directivity	
Horizontal	100° @ -6dB / 90° @ -3dB
Vertical	5° (prolate-spheroidal sound chamber several enclosures - defined by the array)
LF Section (Impedance Ω)	2 x ND10-L 10" Kevlar Neodymium Low Frequency Drivers (2 x 16Ω)
MF Section (Impedance Ω)	YX9 9" Kevlar Driver (8Ω)
HF Section (Impedance Ω)	JBL 2451 (8Ω)
Power Handling (AES / Program / Peak)	
LF x 2	300 / 600 / 1200
MF	350 / 700 / 1400
HF	150 / 300 / 600
Connection	Neutrik Speakon™ NL8
Processing	Settings Available for XTA & LAKE

(*Original paper drivers were 2x 8 Ω)

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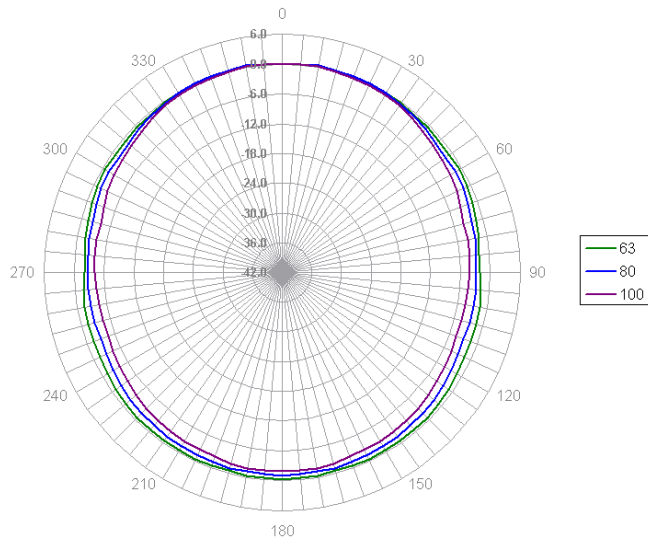
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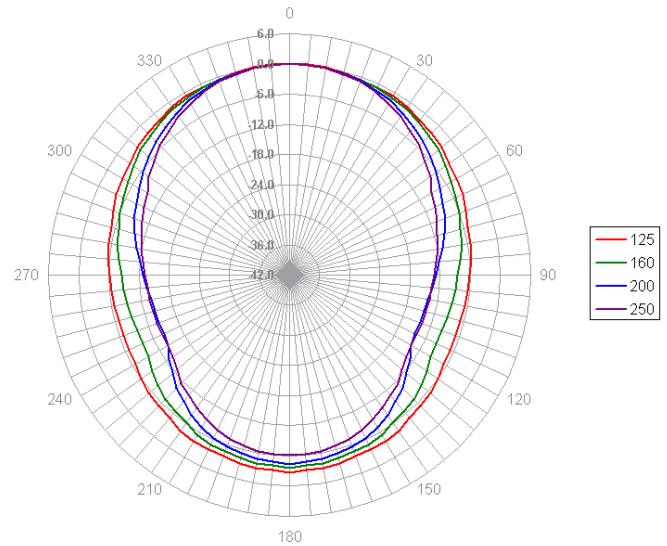
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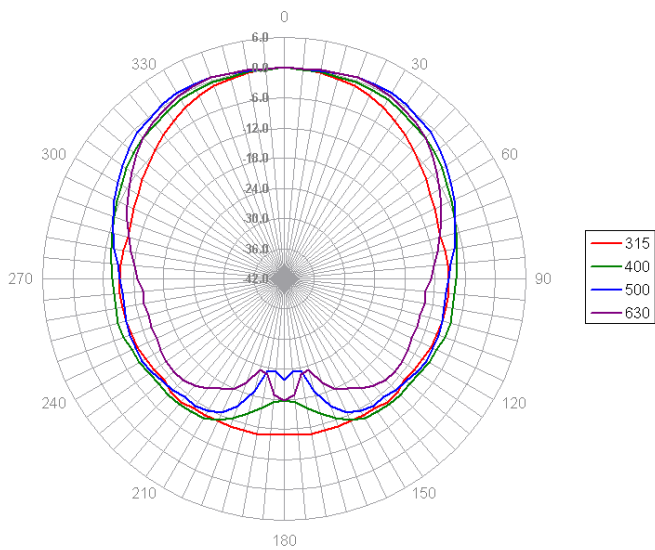
Polar plots 50 - 100 Hz ; 6 dB/div



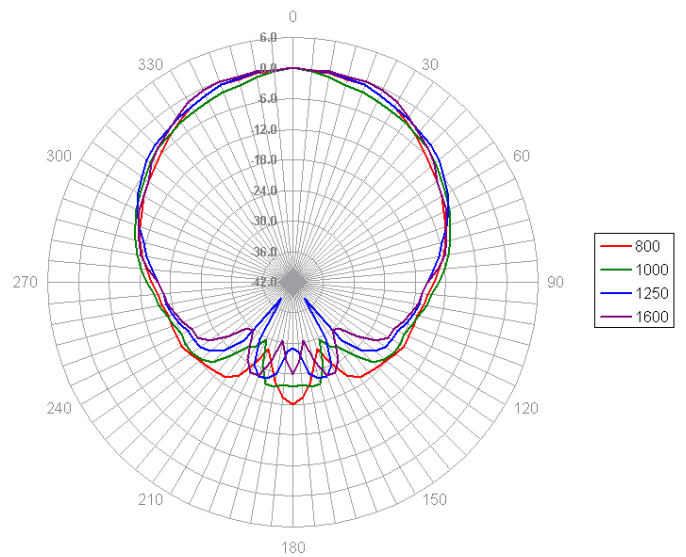
Polar plots 125 - 250 Hz ; 6 dB/div



Polar plots 315 - 630 Hz ; 6 dB/div



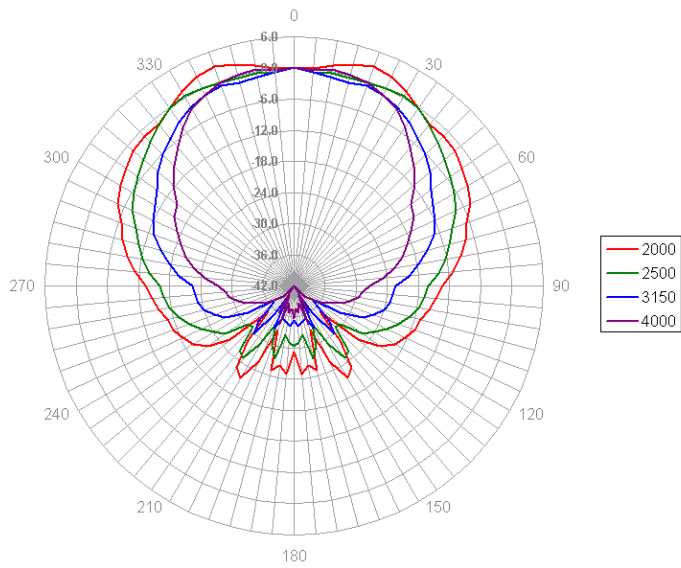
Polar plots 800 Hz - 1K6 ; 6 dB/div



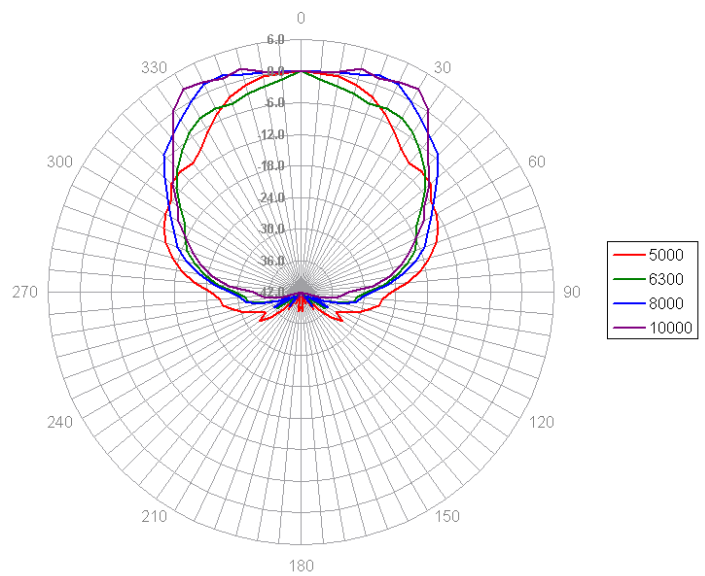
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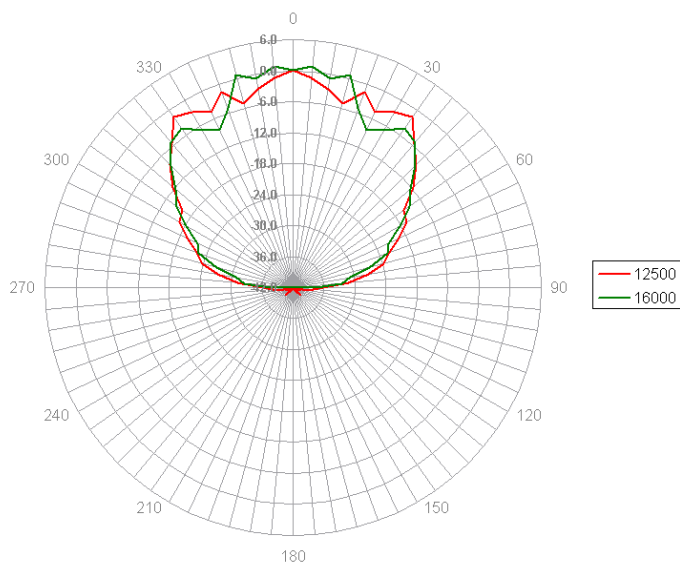
Polar plots 2K - 4K ; 6 dB/div



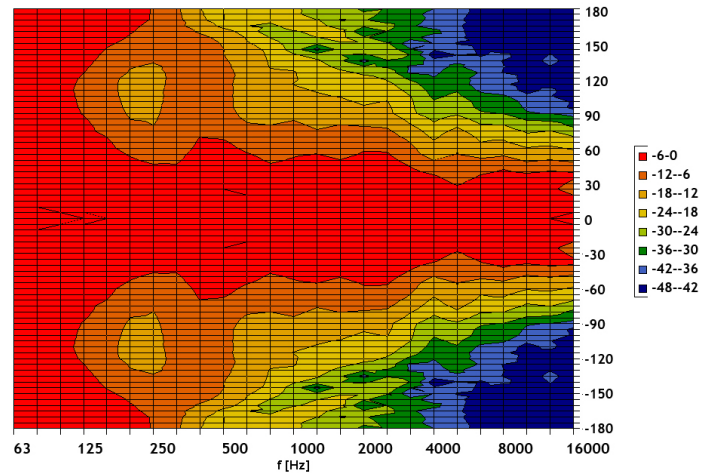
Polar plots 5K - 10K ; 6 dB/div



Polar plots 12K5 - 16K ; 6 dB/div



2D Directivity Plot



-3dB & -6dB Isobar

