RENKUS-HEINZ

Renkus-Heinz beam-steering technology, now in a passive column.

The PCX series from Renkus-Heinz delivers the precise coverage, high intelligibility, and renowned sound quality of their flagship Iconyx loudspeakers into the realm of passive column arrays. New for the PCX Series is our “Passive UniBeam Technology” which addresses each transducer with specially designed all-pass filter networks, gain shading, and additional frequency filtering in order to generate an asymmetrical vertical dispersion with constant directivity, delivering consistent front-to-back coverage with minimal side lobe artifacts.

The PCX Series utilizes state of the art neodymium 3” Full-Range drivers which allow for an incredibly small footprint. The narrow cabinet, combined with Passive UniBeam coverage, allows for plumb surface mounting via the included wall mount bracket, resulting in the least possible architectural intrusion. All models in the PCX Series are weather resistant (IP64) out of the box with the included gland/conduit knock out input cover, and feature high quality audio transformers for 70V/100V constant voltage operation in large, distributed audio systems.

Applications

- The PCX Series delivers consistent coverage, and great intelligibility to a wide range of applications.
- The PCX16’s small size and consistent vertical coverage makes it the ideal loudspeaker for classrooms and small lecture halls.
- Inherent IP64 weather resistance and discrete size makes the PCX16 ideal for outdoor distributed audio systems in places like theme parks.
- Tight vertical dispersion, constant directivity deliver excellent performance in high traffic areas in retail, or transportation corridors.

PCX16

The PCX16 offers precise vertical pattern control and an unmatched combination of features in a suprisingly discrete package. Passive UniBeam technology offers incredibly consistent coverage and constant directivity even in plumb surface-mount configurations. Sixteen high-quality neodymium transducers deliver the impeccable sound quality Renkus-Heinz audio solutions are known for. The included 100w 70/100v transformer, wall-mount bracket and standard weather resistance make it simple to integrate into any system design.

PCX Series

PCX16

Non-Powered Column Array with Passive UniBeam Technology

- **Passive UniBeam Technology**

  Asymmetrical vertical dispersion, constant directivity, and inherent down angle deliver incredible coverage even when mounted plumb.

- **High Quality Audio Components**

  3” Neodymium full-range drivers, crossover components, and transformers were all selected for impeccable audio performance.

- **Out of the Box Simplicity**

  Included panable wall-mount bracket and inherent weather resistance means the PCX16 is ready to go as soon as its out of the box.

PCX16 Specifications	
Frequency Response:	135 Hz to 15 kHz (- 3dB) 110-18 kHz (-10 dB)
Sensitivity:	95 dB (1w/1m) 83 dB (4 m, per EN54-24)
Impedance:	4 Ohms
Power Handling:	120 W (100 Hr per EN54-24) 225 W (AES) 450 W (PGM) 900 W (PEAK)
Transformer:	70/100 V Transformer 12 W (400 Ω), 25 W (200 Ω), 50 (100 Ω), 100 (50 Ω) W Taps - 70 V 25 W (400 Ω), 50 W (200 Ω), 100 W (100 Ω) Taps - 100 V
Maximum SPL:	124 dB Peak @ 1 m 103 dB @ 4 m (through transformer per EN54-24)
Dispersion H:	120° horizontal below 5 kHz, 90º above 5kHz
Dispersion V:	15° asymmetrical (+5°/-10°) with 4° average downtilt above 1 khz
Coverage Angles:	500 Hz: 360 H x 57 V 1000 Hz: 182 H x 31 V 2000 Hz 124 H x 18 V 4000 Hz: 154 H x 13 V
Transducers:	16 x 3 in. / 77 mm, full-range, high sensitivity, treated paper cone driver
Connector:	Covered screw terminals
Enclosure:	Extruded aluminum
Grille:	Perforated, bent aluminum
Finish:	Black (RAL9011) or White (RAL9010) paint
Weather Rating:	IP64 with Salt Spray, Chlorine, and UV Resistance
Operating Tempurature	Minimum: -22º F / -30º C Maximum: 140º F / 60º C with no direct sun exposure
Mounting:	W-WALL-PCX Surface-mount pan bracket (included) W-WALL-PCX-PT pan/tilt bracket (optional)
Dimensions:	4-3/8" (111.4 mm) **w** 56-7/8" (1444.6 mm) **h** 4-3/4" (120.7 mm) **d**
Weight:	29.6 lbs (13.4 kg)

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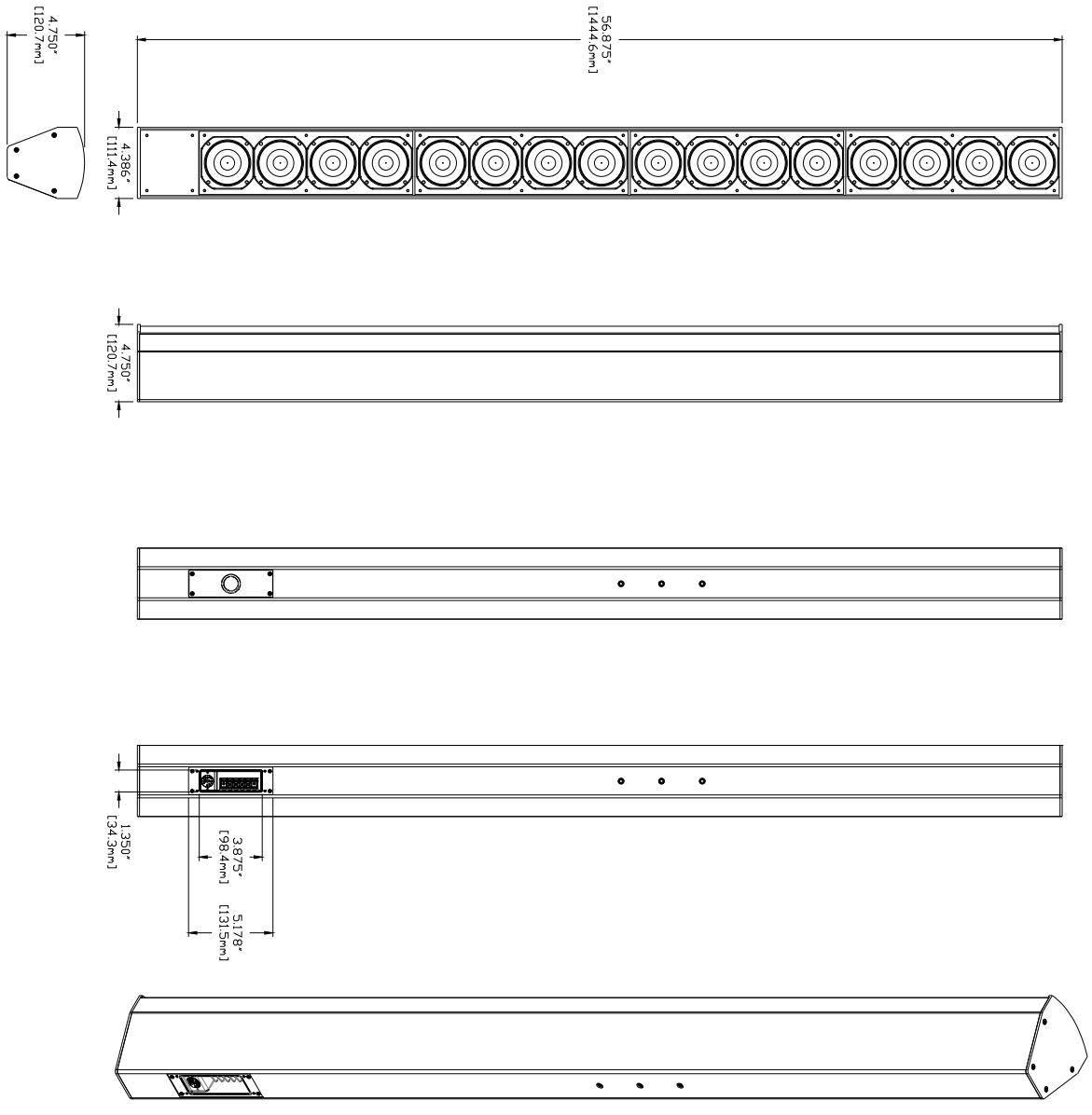

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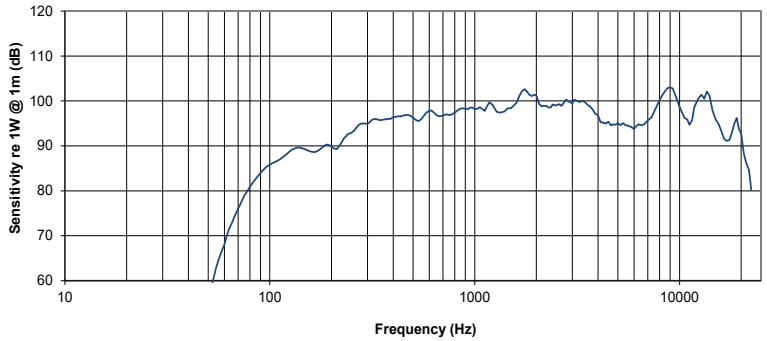
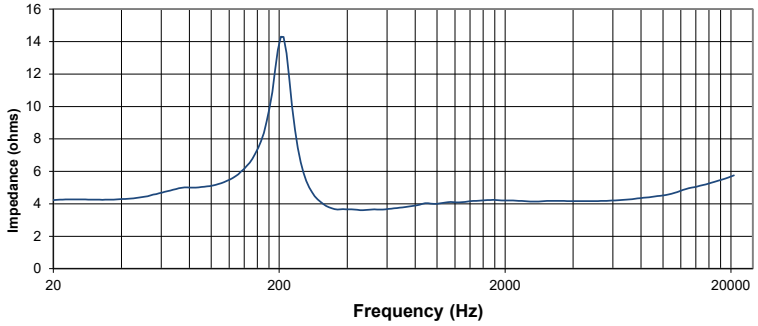
Measurements

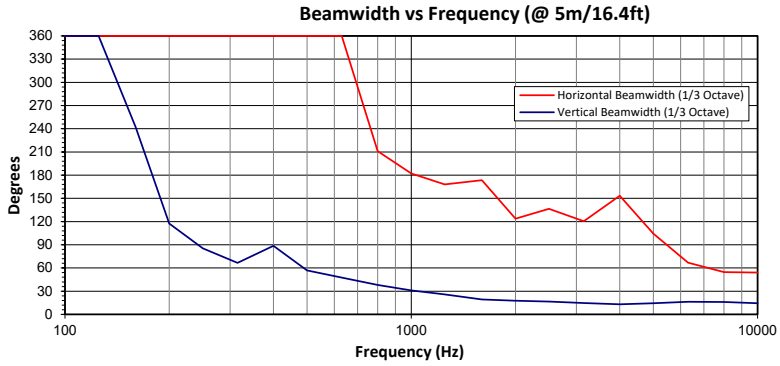
1m on-axis Frequency Response



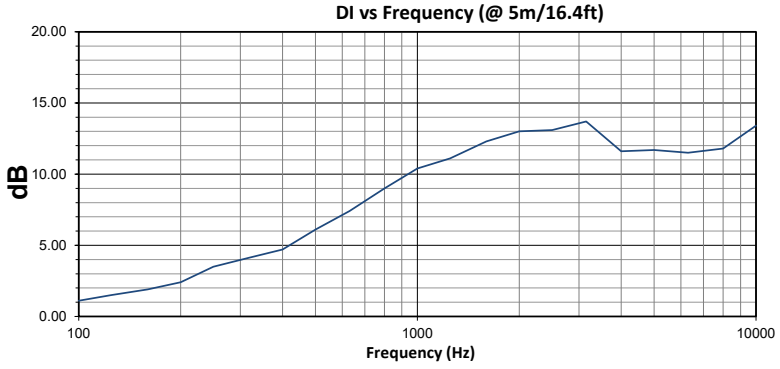
Impedance vs frequency



Beamwidth vs Frequency (@ 5m/16.4ft)



DI vs Frequency (@ 5m/16.4ft)



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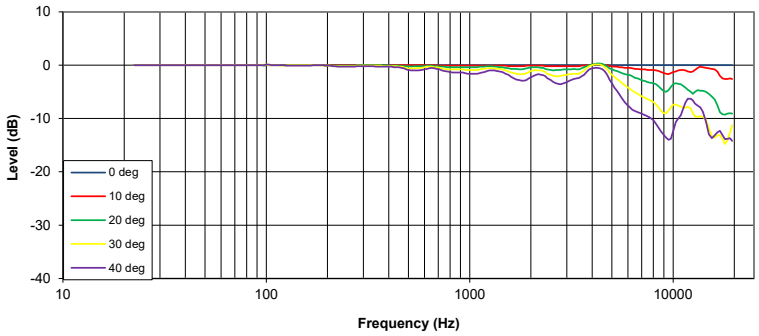
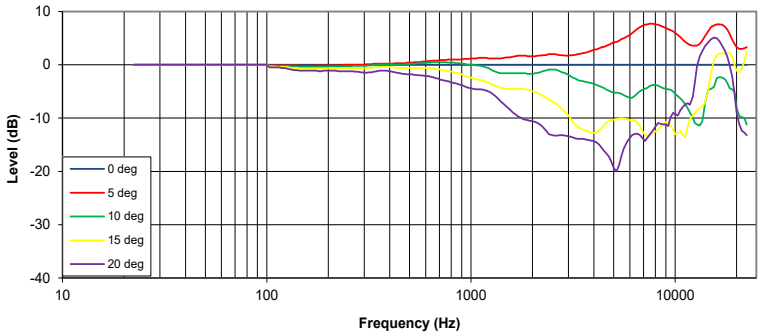
Measurements continued

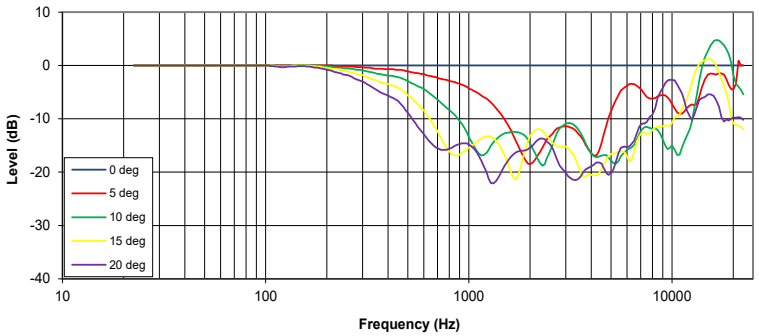
Horizontal Off-axis Frequency Response, Normalized On-Axis



Lower Vertical Off-axis Frequency Response, Normalized On-Axis



Upper Vertical Off-axis Frequency Response, Normalized On-Axis



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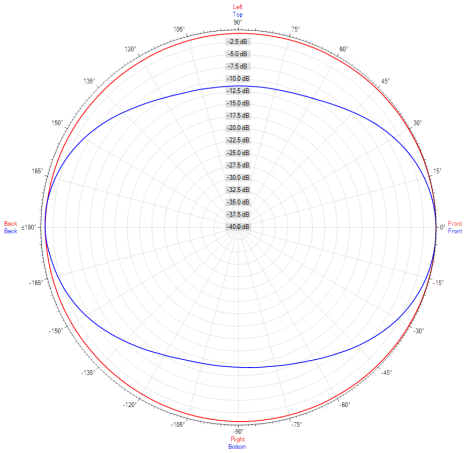
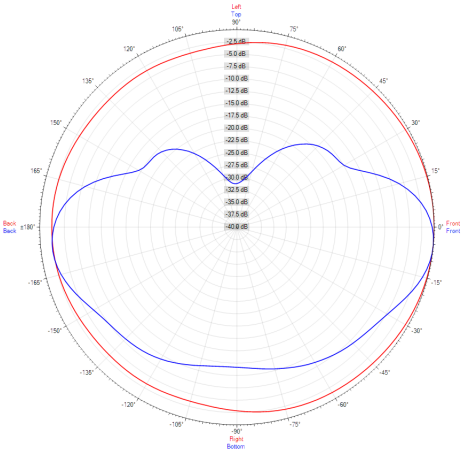
Measurements continued

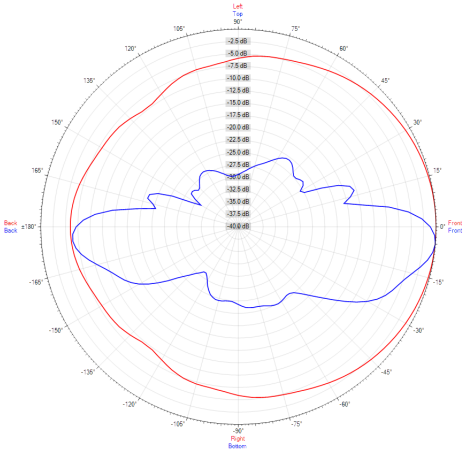
250 Hz 1/3 Oct



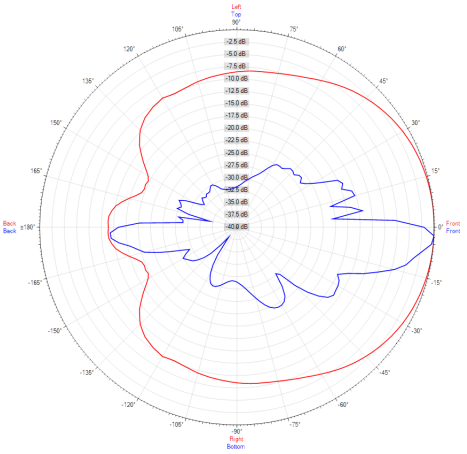
500 Hz 1/3 Oct



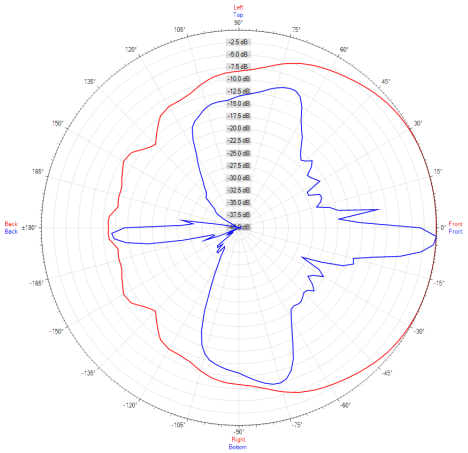
1 kHz 1/3 Oct



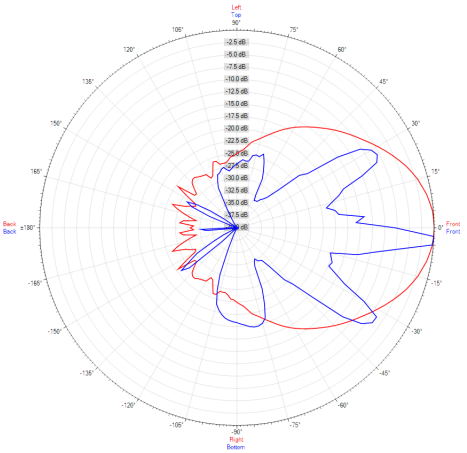
2 kHz 1/3 Oct



4 kHz 1/3 Oct



8 kHz 1/3 Oct



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