



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

The UBX 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 UBX 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 UBX 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 UBX 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

- EN54-24 Certification make the UBX16 ideal for Voice Alarm applications.
- The UBX16's small size and consistent vertical coverage make it the ideal loudspeaker for classrooms and small lecture halls.
- Inherent IP64 weather resistance and discreet size make the UBX16 ideal for outdoor distributed audio systems in places like theme parks.
- Tight vertical dispersion and constant directivity deliver excellent performance in high traffic areas in retail or transportation corridors.

#### UBX16

The UBX16 offers precise vertical pattern control and an unmatched combination of features in a surprisingly discreet 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.

## UBX Series

# UBX16

## 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 UBX16 is ready to go as soon as its out of the box.

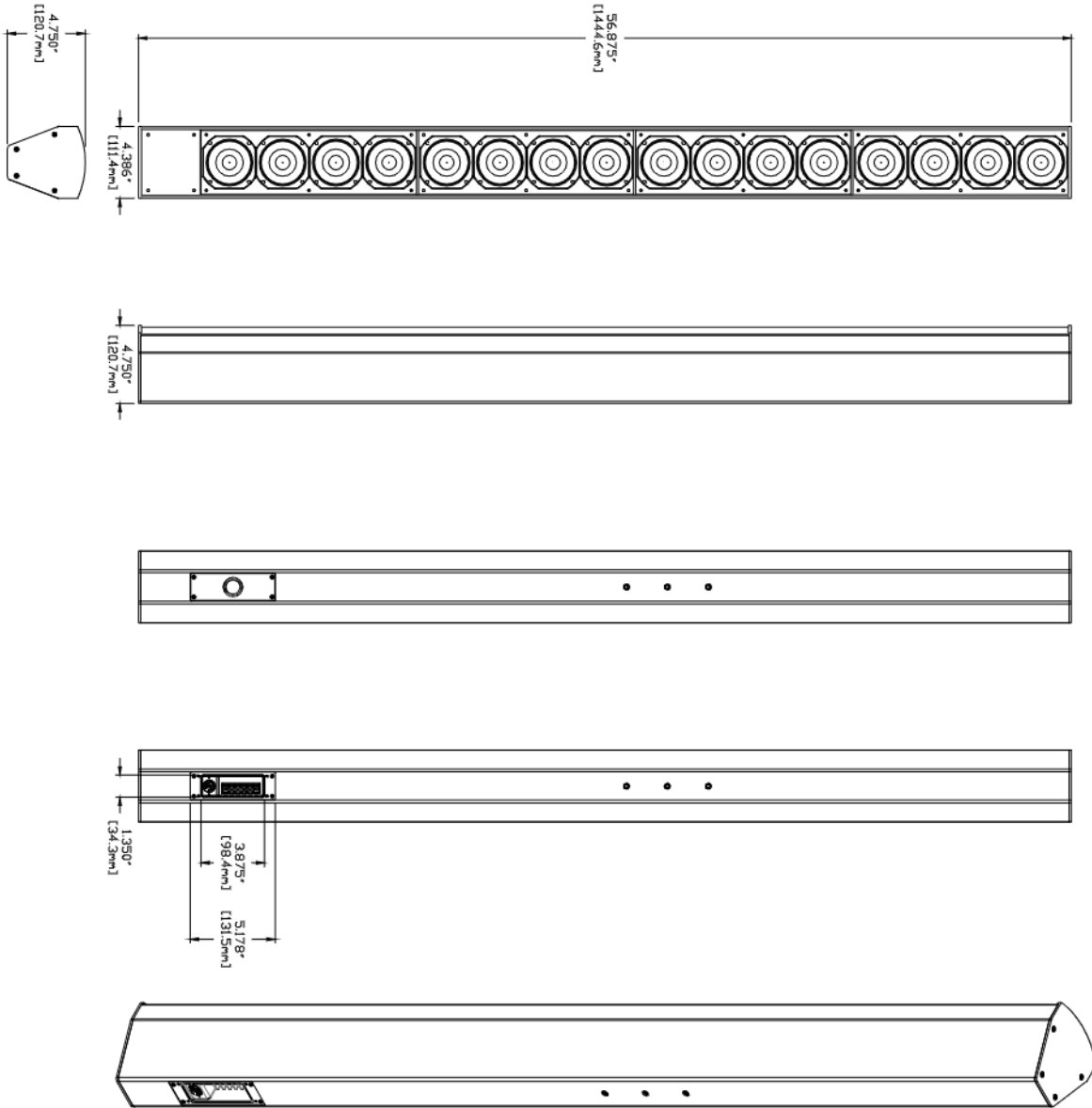
### UBX16 Specifications

<b>Frequency Response:</b>	135 Hz to 15 kHz (-3 dB) <sup>1</sup> 110 Hz to 18 kHz (-10 dB) <sup>1</sup>
<b>Sensitivity:</b>	95 dB (1w/1m) <sup>1</sup> 79 dB (4 m, per EN54-24) <sup>2</sup>
<b>Impedance:</b>	4 Ohms
<b>Power Handling:</b>	100 W (100 Hr, per EN54-24) 225 W (AES) 450 W (PGM) 900 W (PEAK)
<b>Transformer:</b>	70/100 V Transformer 70 V - 12 W (400 Ω), 25 W (200 Ω), 50 W (100 Ω), 100 W (50 Ω) Taps 100 V - 25 W (400 Ω), 50 W (200 Ω), 100 W (100 Ω) Taps
<b>Maximum SPL:</b>	124 dB Peak @ 1 m <sup>1</sup> 99 dB @ 4 m (through transformer, per EN54-24) <sup>2</sup>
<b>Dispersion H:</b>	120° horizontal below 5 kHz, 90° above 5 kHz <sup>1</sup>
<b>Dispersion V:</b>	15° asymmetrical (+5°/-10°) with 4° average down-tilt above 1 kHz <sup>1</sup>
<b>Coverage Angles:</b>	500 Hz: 360 H x 45 V 1000 Hz: 195 H x 25 V 2000 Hz: 140 H x 18 V 4000 Hz: 160 H x 13 V
<b>Transducers:</b>	16 x 3 in/ 77 mm, full-range, high-sensitivity, treated-paper cone driver
<b>Connector:</b>	Covered screw terminals
<b>Enclosure:</b>	Extruded aluminum
<b>Grille:</b>	Perforated, bent aluminum
<b>Finish:</b>	Black (RAL9011) or White (RAL9010) paint
<b>Weather Rating:</b>	IP64 with Salt Spray, Chlorine, and UV Resistance
<b>Certifications:</b>	EN54-24
<b>Operating Temperature</b>	Minimum: -22° F / -30° C Maximum: 140° F / 60° C with no direct sun exposure
<b>Mounting:</b>	W-WALL-UBX Surface-mount pan bracket (included) W-WALL-UBX-PT pan/tilt bracket (optional)
<b>Dimensions:</b>	4-3/8" (111.4 mm) <b>w</b> 56-7/8" (1444.6 mm) <b>h</b> 4-3/4" (120.7 mm) <b>d</b>
<b>Weight:</b>	29.6 lbs (13.4 kg)

**Notes:**

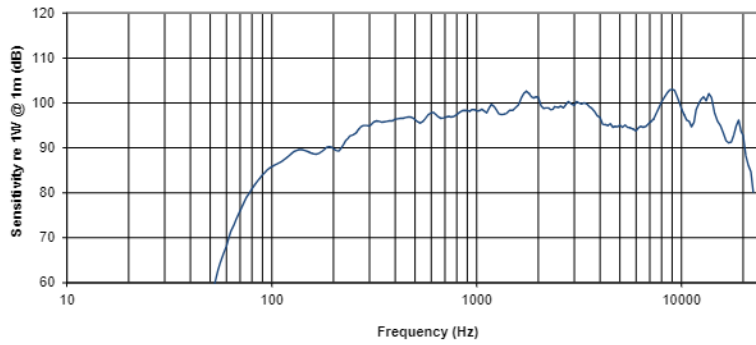
1. Standard acoustic measurements taken on axis.

2. EN54 ratings measured at 4 degrees down from 'on axis', reference point of 'On Axis' is the center of the driver array with loudspeaker mounted vertically.

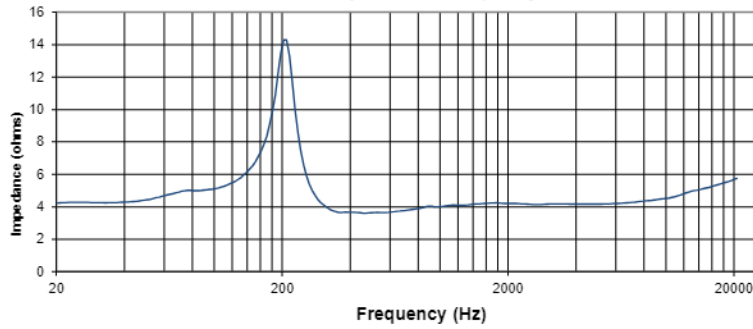


## Measurements

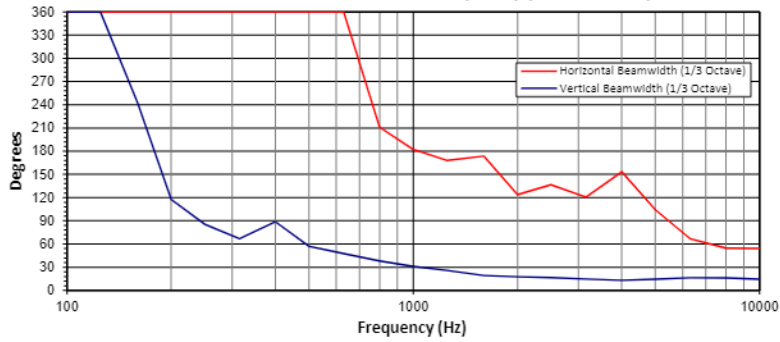
### 1m on-axis Frequency Response



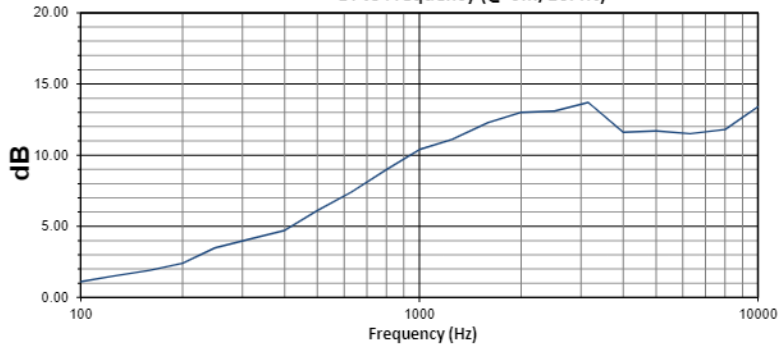
### Impedance vs frequency



### Beamwidth vs Frequency (@ 5m/16.4ft)

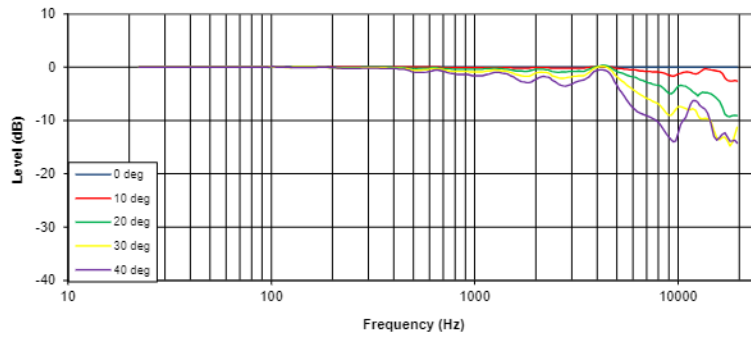


### DI vs Frequency (@ 5m/16.4ft)

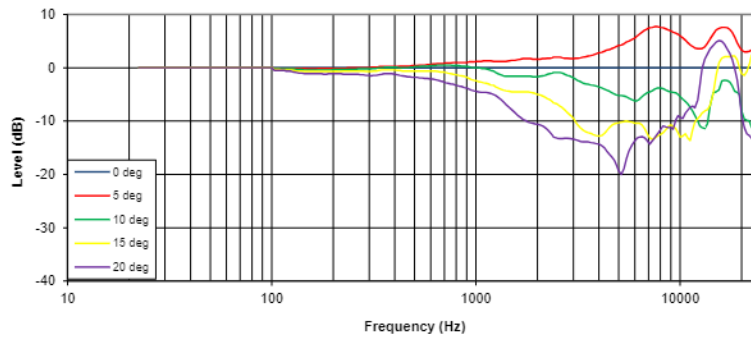


## Measurements continued

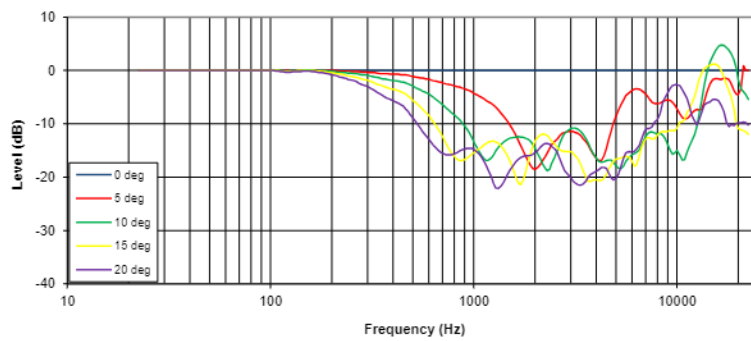
### Horizontal Off-axis Frequency Response, Normalized On-Axis



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

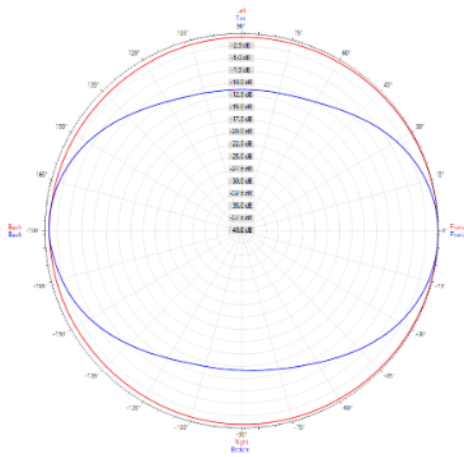


### Upper Vertical Off-axis Frequency Response, Normalized On-Axis

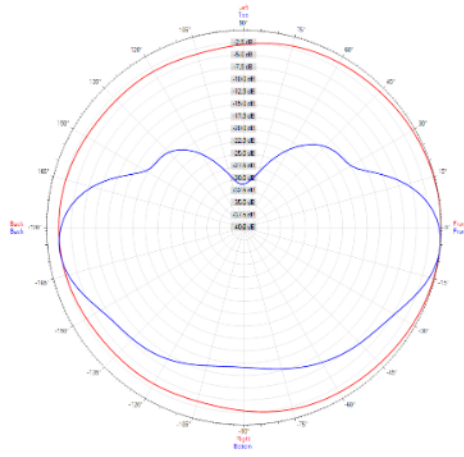


# Measurements continued

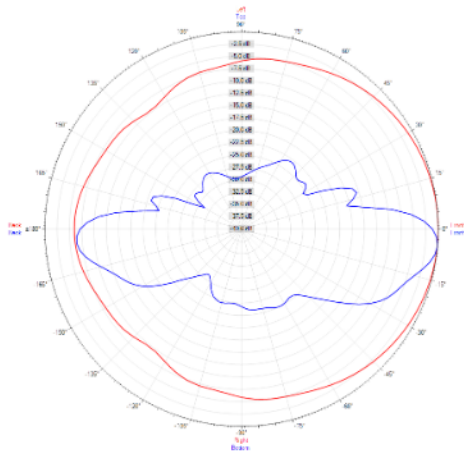
### 250 Hz 1/3 Oct



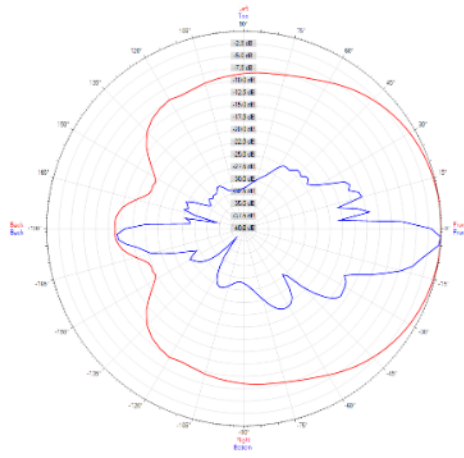
### 500 Hz 1/3 Oct



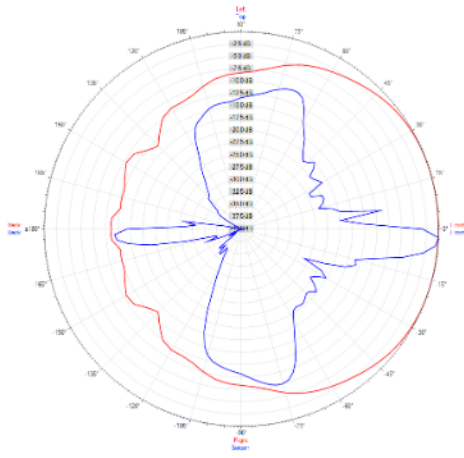
### 1 kHz 1/3 Oct



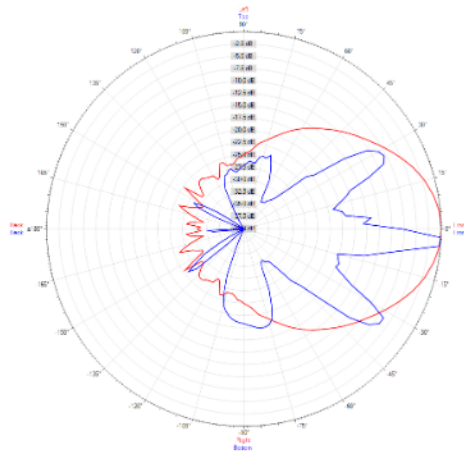
### 2 kHz 1/3 Oct



### 4 kHz 1/3 Oct



### 8 kHz 1/3 Oct



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