

VECTOR CS1265 Series

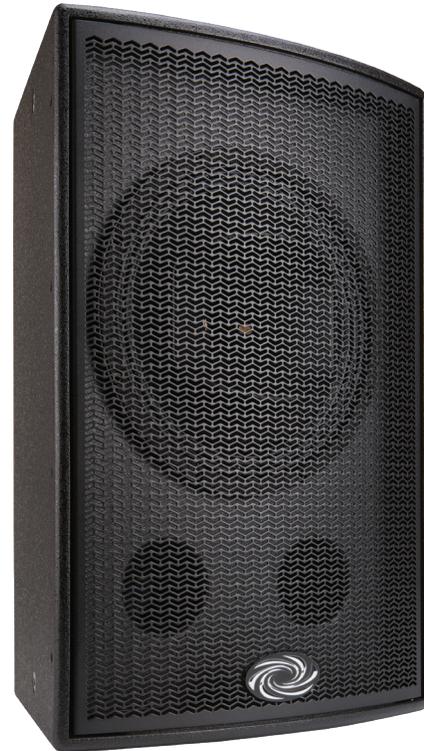
Vector™ Performance Loudspeaker – 12” 2-Way Coaxial 60° x 45°

- > A space-efficient, professional performance loudspeaker for large indoor spaces
- > Advanced 12” (305 mm) coaxial transducer with 60° x 45° HF horn
- > Available with HF horn rotated 90° for horizontal orientation (model VECTOR CS1265-RH)
- > Integrated HF compression driver with 3 inch (76 mm) titanium diaphragm
- > Delivers superior performance in combination with a Crestron Avia™ DSP
- > Precisely tuned for accurate, uncolored sound reproduction
- > Produces high intelligibility and natural sound quality for speech and program material
- > Achieves smooth bandwidth performance both within and beyond the specified coverage pattern
- > Uniform directionality affords consistent, targeted pattern control
- > Capable of high SPLs without coloration or distortion
- > Provides excellent cost-benefit compared to more conventional designs
- > 40° trapezoidal enclosure affords a clean, unimposing appearance
- > Rugged yet light construction for easy, reliable installation
- > Concealed M10 mounting points
- > Yoke bracket or forged shoulder eyebolts available separately
- > Neutrik® speakON® input and pass-through connections

Crestron® Vector™ Performance Loudspeakers provide a professional sound reinforcement speaker solution for large indoor spaces and venues. Featuring a revolutionary coaxial transducer design complemented by advanced *Crestron Avia™* digital signal processing, Vector loudspeakers deliver exceptional intelligibility and natural sound quality for speech reinforcement, foreground music, and multimedia presentation applications. Compact, aesthetically-pleasing enclosures afford remarkable performance in less space. A choice of sizes and coverage patterns is offered to address the varying applications and room geometries found in auditoriums, theaters, lecture halls, houses of worship, convention centers, hotel ballrooms, sports facilities, night clubs, and public spaces.

The Vector CS1265 is a compact, trapezoidal speaker enclosure loaded with one 2-way coaxial transducer composed of a 12” (305 mm) LF driver and a 60° x 45° HF horn with 3” (76 mm) diaphragm compression driver. Advanced engineering and construction achieve a space-efficient speaker design with high output capability and consistent pattern control. Its integrated coaxial transducer aligns the low-frequency and high-frequency elements to produce precise transient response and uniform directionality across the entire frequency range.

Note: Specify model VECTOR CS1265-RH for applications requiring the enclosure to be installed in a horizontal orientation. The VECTOR CS1265-RH is assembled with its high-frequency horn rotated 90°.



Advanced Coaxial Transducer

The transducer in the Vector CS1265 represents a revolutionary advancement in coaxial speaker design. Its high-frequency horn features a large 3 inch (76 mm) titanium diaphragm compression driver, which operates at frequencies lower than typical, allowing the high-frequency horn to smooth the response of the low frequency section to reduce shadowing of the woofer by the horn. The woofer's large radiating surface works in conjunction with the high-frequency horn to improve directional control at the lower end of the horn's frequency range resulting in better pattern control throughout the critical voice band. The large diaphragm also allows the compression driver to produce higher sound pressure levels without distortion to deliver incredibly clear and dynamic sound quality for both speech and program material.

The complete coaxial transducer assembly employs a single, powerful ceramic magnet with dual-gap geometry, which minimizes the spacing between the compression driver and woofer voice coils. This integrated approach virtually eliminates the delay between the two drivers, allowing a passive crossover to be used to seamlessly blend the horn and woofer into a single point source. The reduced demand on the internal crossover helps to maximize efficiency and damping, resulting in performance rivaling a more expensive bi-amplified design. Using a single magnet also reduces the speaker's weight, size, and cost.

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Crestron Avia™ Digital Signal Processing

Every aspect of the Vector CS1265 is designed to take advantage of the signal refining abilities of a [Crestron Avia DSP](#). Vector loudspeakers and Crestron Avia processing work synergistically to produce a superior speaker system tuned for accurate, uncolored reproduction of voice and program signals. Precision signal processing is employed to accomplish what can't be done physically, strategically eliminating harsh-sounding resonances caused by horn reflections while retaining every nuance of the original signal.

Further refinements are employed to maximize transient response and deliver smooth bandwidth performance both within and beyond the speaker's nominal coverage pattern. The result is an extremely natural sounding speaker system with superior pattern control, improved intelligibility, reduced listener fatigue, and higher gain before feedback.

Versatile Installation

The Vector CS1265 is particularly effective in systems where targeted pattern control is desirable, including front of house, delay fill, and foreground music applications. Its clean appearance and familiar format facilitate acceptance by architects and interior designers, and the 40° trapezoidal angle allows it to be mounted near walls or ceilings without obstructing sight lines. Concealed M10 mounting points are included to accommodate either an optional [yoke bracket](#) or forged shoulder [eyebolts](#) (each sold separately).

Note: Specify model VECTOR CS1265-RH for applications requiring the enclosure to be installed in a horizontal orientation. The VECTOR CS1265-RH is assembled with its high-frequency horn rotated 90°.

SPECIFICATIONS

Performance

Transducers: 12 inch (305 mm) woofer with 3 inch (76 mm) voice coil, coaxial horn with 3 inch (76 mm) titanium diaphragm compression driver, single ceramic magnet

Beamwidth: 60° x 45° nominal, available with horn rotated 90° for horizontal orientation (model VECTOR CS1265-RH)

Impedance: 8 Ohms nominal

Frequency Range: 49 Hz to 20 kHz (+3/-10 dB)

Power Handling: 400 Watts based on the AES power handling of the transducers

Nominal Sensitivity: 102 dB at 1W/1m whole space using band limited pink noise without processing

Nominal Maximum SPL: 134 dB peak, 128 dB continuous, at 400W/1m without processing

Equalized Sensitivity: 96 dB at 1W/1m using an EIA-426-B signal with processing

Equalized Maximum SPL: 128 dB peak, 122 dB continuous, at 400W/1m with processing

Processing & Amplification

Digital Signal Processing: Requires processing using one output channel of a [Crestron Avia DSP](#), settings provided via model-specific "Speaker Profiles" in the Crestron Avia Audio Tool software ([SW-AAT](#))

Amplification: Requires a single channel of amplification

Recommended Amplifier Power: 400 to 800 Watts at 8 Ohms

Connections

Input: (2) Neutrik NL4 speakON 4-pole chassis connectors;

Pins 1 +/-: Speaker input and pass-through;

Pins 2 +/-: Pass-through only

Environmental

For indoor use only

Construction

Enclosure: Void-free, exterior grade Baltic Birch plywood; black painted finish

Grille: Steel, black powder coat finish

Yoke Mounting: (2) M10 yoke points ([yoke bracket](#) sold separately)

Suspension: (12) M10 eyebolt angle points and (1) M10 pull back point ([eyebolts](#) sold separately)

Dimensions

Height: 24.00 in (610 mm)

Width: 15.99 in (406 mm)

Depth: 13.50 in (343 mm)

Weight

43.0 lb (19.5 kg)

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MODELS & ACCESSORIES

Available Models

VECTOR CS1265: Vector™ Performance Loudspeaker – 12” 2-Way Coaxial 60° x 45°

VECTOR CS1265-RH: Vector™ Performance Loudspeaker – 12” 2-Way Coaxial 60° x 45°, Rotated Horn

Available Accessories

VECTOR YOKE12: Yoke Bracket for VECTOR CS1265 & CS1295

VECTOR EB10: M10 Forged Shoulder Eyebolt

VECTOR CONN2: Neutrik® NL2 speakON® 2-Pole Cable Connector

VECTOR CONN4: Neutrik® NL4 speakON® 4-Pole Cable Connector

DSP Series: Crestron Avia™ Digital Signal Processors

CA-PWRSFT-1604: Powersoft Duecanali 1604 2-Channel Power Amplifier, 800W/Ch.

CA-PWRSFT-2404: Powersoft Quattrocanali 2404 4-Channel Power Amplifier, 600W/Ch.

VECTOR SUBS15: Vector™ 15” Performance Subwoofer

VECTOR SUBS18: Vector™ 18” Performance Subwoofer

VECTOR SUBD18: Vector™ Dual 18” Performance Subwoofer

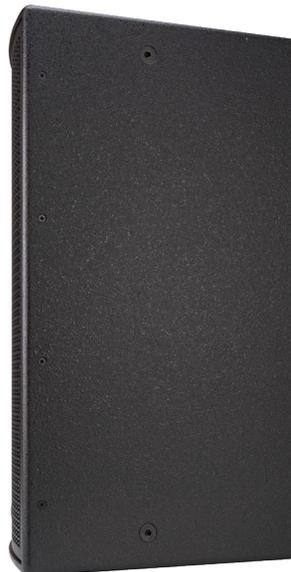
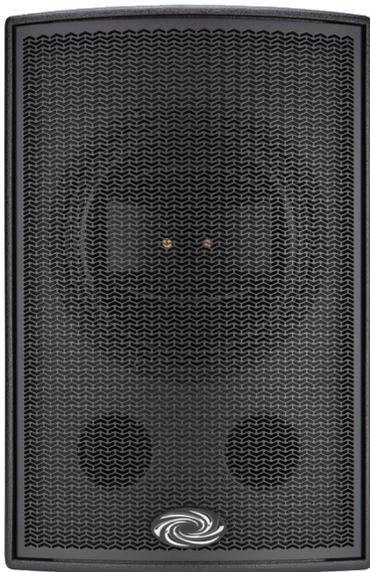
Notes:

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at <https://www.crestron.com/How-To-Buy/Find-a-Representative> or by calling 855-263-8754.

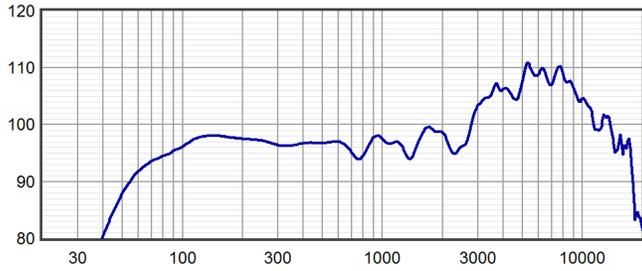
The specific patents that cover this and other Crestron products are listed online at <https://www.crestron.com/legal/patents>.

Certain Crestron products contain open source software. For specific information, visit <https://www.crestron.com/opensource>.

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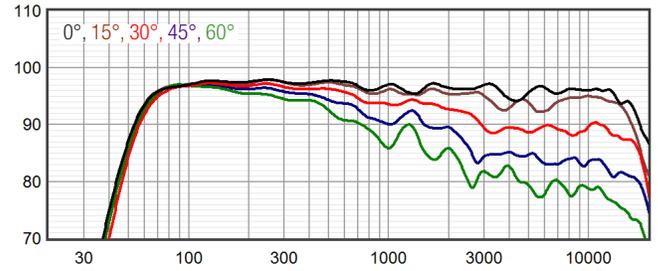


VECTOR CS1265 Series Vector™ Performance Loudspeaker – 12" 2-Way Coaxial 60° x 45°



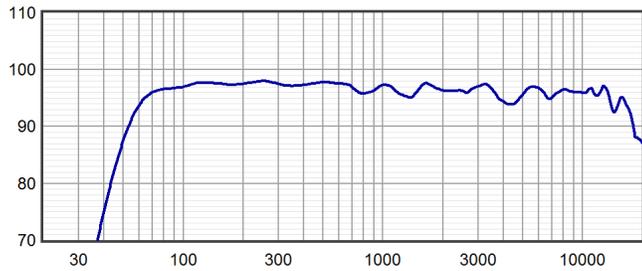
Axial Sensitivity (dB SPL, 1W/1m)

Plotted against frequency for a 1 watt swept sine wave, referenced to 1 m without processing



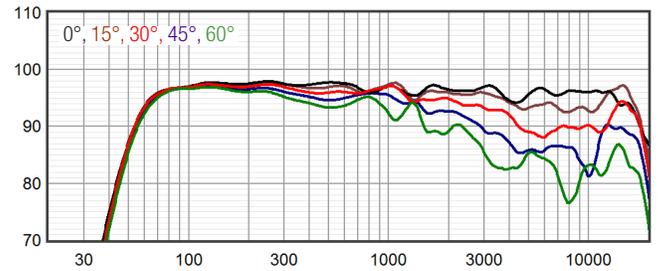
Horizontal Off Axis Response

The magnitude response at various angles off axis, with processing



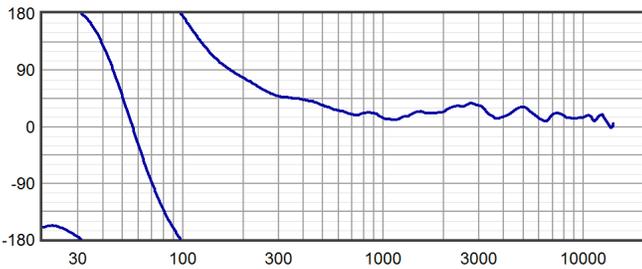
Axial Processed Response (dB)

The axial magnitude response with processing



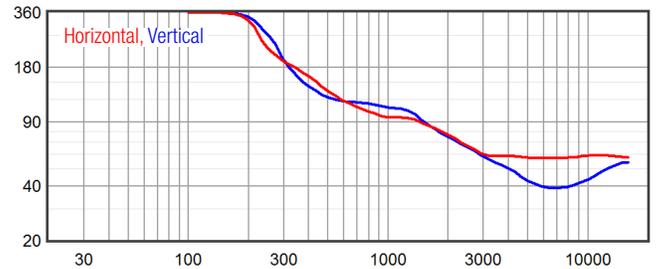
Vertical Off Axis Response

The magnitude response at various angles off axis, with processing



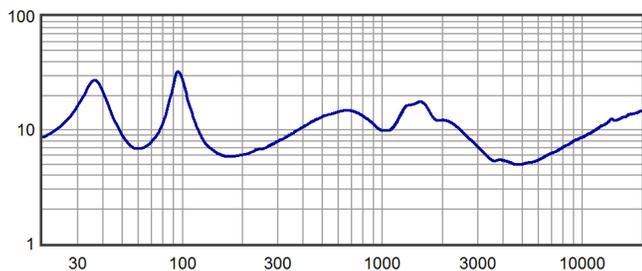
Axial Processed Phase Response (degrees)

The axial phase response with processing

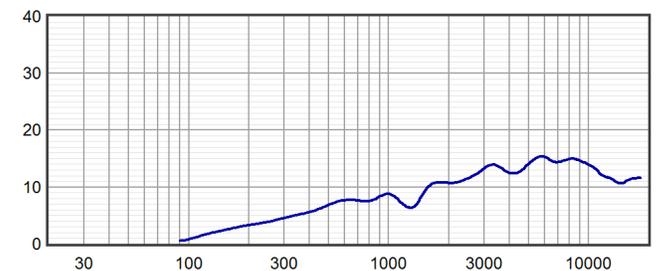


Beamwidth

The angle between the -6 dB points in the speaker's polar response



Impedance (Ohms)



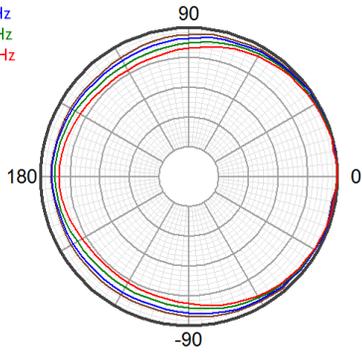
Directivity Index (dB)

The ratio of the on-axis sound pressure squared to the spherical average of the sound pressure squared at a particular frequency expressed in dB. To convert the directivity index (Di) to directivity factor (Q) use the formula: $10 \text{ Di}/10$

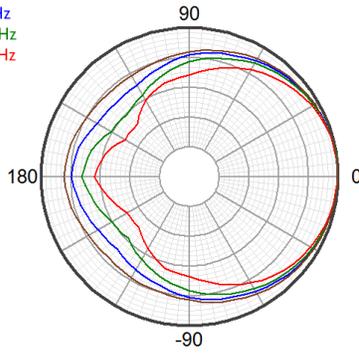
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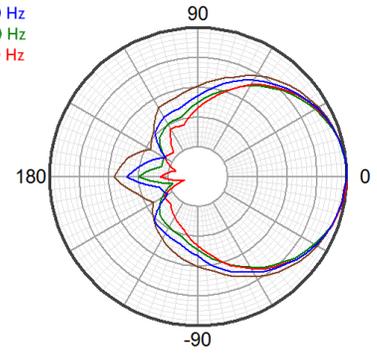
100 Hz
125 Hz
160 Hz
200 Hz



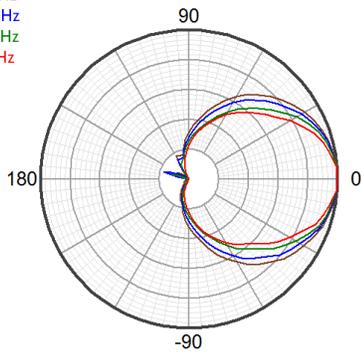
250 Hz
315 Hz
400 Hz
500 Hz



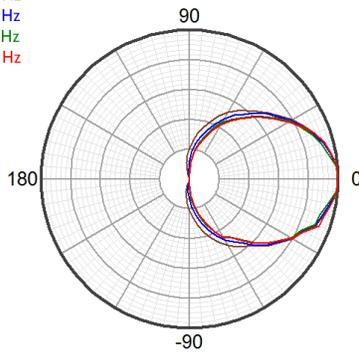
630 Hz
800 Hz
1000 Hz
1250 Hz



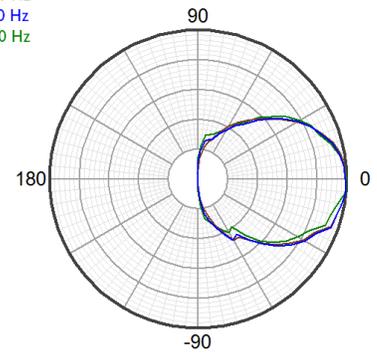
1600 Hz
2000 Hz
2500 Hz
3150 Hz



4000 Hz
5000 Hz
6300 Hz
8000 Hz

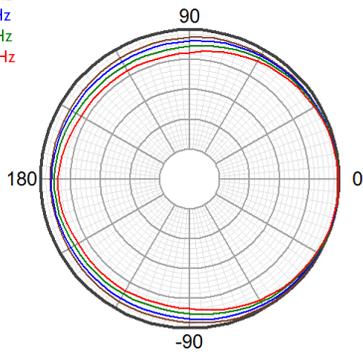


10000 Hz
12500 Hz
16000 Hz

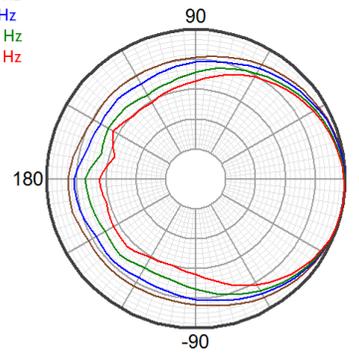


Horizontal Polar Response (30 dB Scale, 6 dB per Major Division)

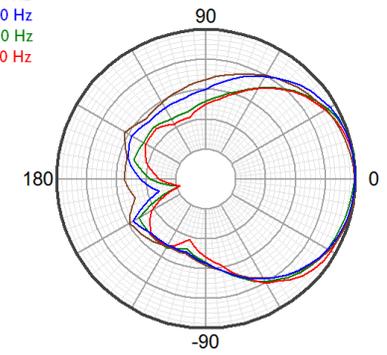
100 Hz
125 Hz
160 Hz
200 Hz



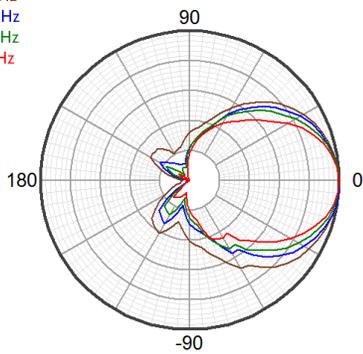
250 Hz
315 Hz
400 Hz
500 Hz



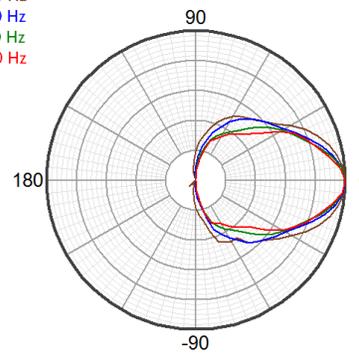
630 Hz
800 Hz
1000 Hz
1250 Hz



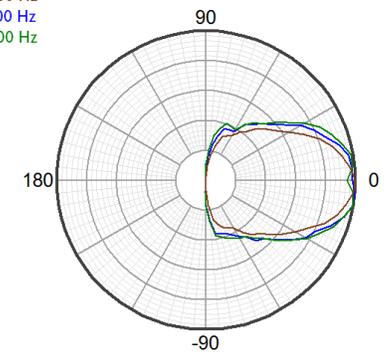
1600 Hz
2000 Hz
2500 Hz
3150 Hz



4000 Hz
5000 Hz
6300 Hz
8000 Hz

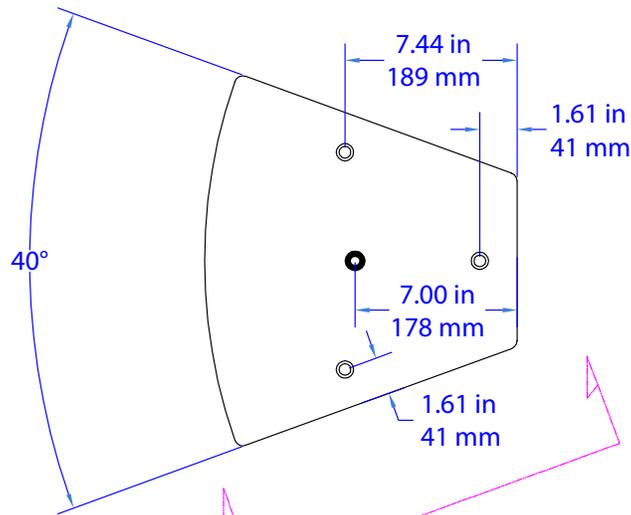
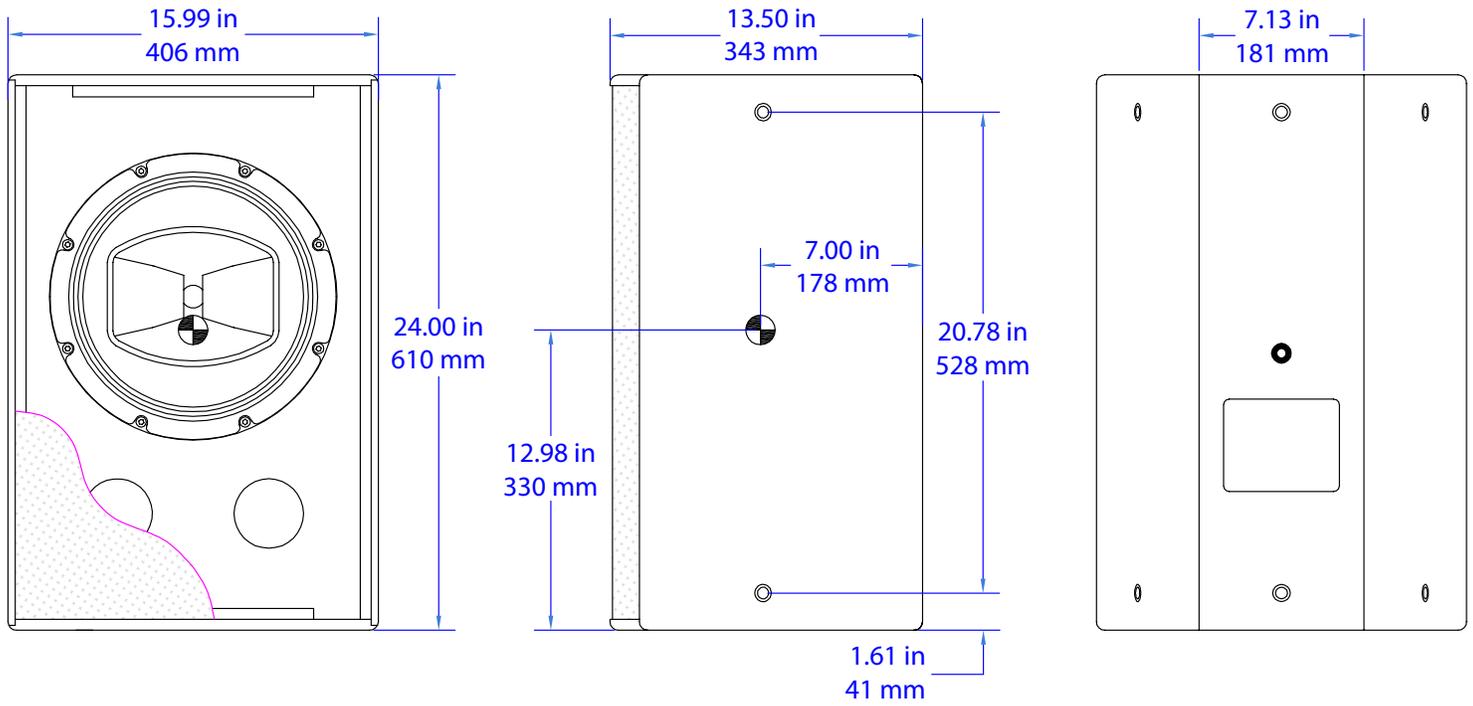


10000 Hz
12500 Hz
16000 Hz



Vertical Polar Response (30 dB Scale, 6 dB per Major Division)

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Symbol Key:

- ⊙ = M10 Eyebolt angle point
- = M10 Nut plate
- ◐ = CoG

