Sub215

Dual 15 inch Direct-Radiating Subwoofer



Overview

The Sub215 is a dual 15 inch, vented subwoofer that is designed to provide low frequency support in installations requiring high SPLs from a compact enclosure. Its high power transducers provide a physically engaging musicality like that produced by larger systems.

The Sub215 requires digital signal processing, and many platforms are supported. The Sub215 is an excellent option any time a compact subwoofer with robust SPL capability is needed. This makes it the perfect choice for club live reinforcement or dance systems, high intensity DJ monitors, A/V screening rooms, and distributed low frequency reinforcement in nightclubs, restaurants, and theme parks.

Technologies

The two 15 inch woofers in the Sub215 have high power, 4 inch voice coils, and are capable of impressively large excursion. The enclosure is optimally tuned to provide maximum low frequency output in a compact package.

Performance Specifications[1]

Operating Mode
Single or dual amplified w/ DSP*
** See page 3 for connection diagrams*

Operating Range [2]
25 Hz to 141 Hz

Nominal Beamwidth
Spherical within operating range

Transducers
LF: (2) 15.0" woofers, 4.0" voice coil; ceramic magnet

Power Handling @ Nominal Impedance [3]
89 V / 2000 W @ 4 Ω (2x 1000 W @ 8 Ω)

Nominal Sensitivity @ Input Voltage [4] (half / whole space)
104 dB / 98 dB @ 2.00 V

Nominal Maximum Continuous SPL (half / whole space)
143 dB / 137 dB peak
137 dB / 131 dB continuous

Equalized Sensitivity @ Input Voltage [5] (half / whole space)
98 dB / 92 dB @ 2.00 V

Equalized Maximum SPL [6] (half / whole space)
137 dB / 131 dB peak
131 dB / 125 dB continuous

Recommended Power Amplifier
2000 W to 3000 W @ 4 Ω

Physical Specifications

Connections
(2) Neutrik NL4 Speakon
Pin 1+/-: LF 1
Pin 2+/-: LF 2

Mounting / Suspension Points
(16) M10 eye bolt angle points

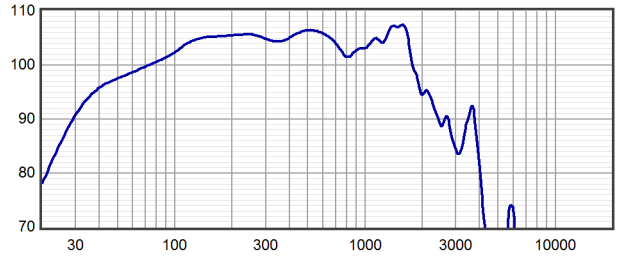
Dimensions / Weight
See pages 4 & 5

Finish
Black painted enclosure w/ matte black grille, or
White painted enclosure w/ matte white grille

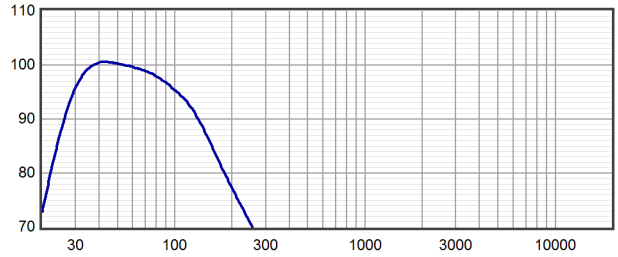
Options

Terminal strip input, Custom color finish,
Weather-resistant (WR) enclosure & hardware

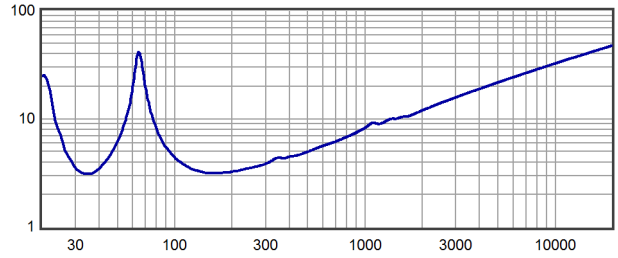
Axial Sensitivity (dB SPL, 2.00V @ 1 m, half space)[7, 8]



Axial Processed Response (dB, half space)[7, 9]

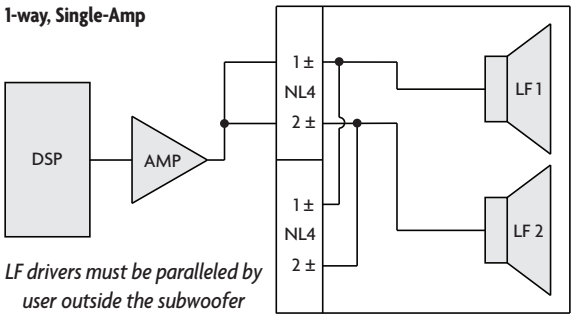


Impedance (ohms)



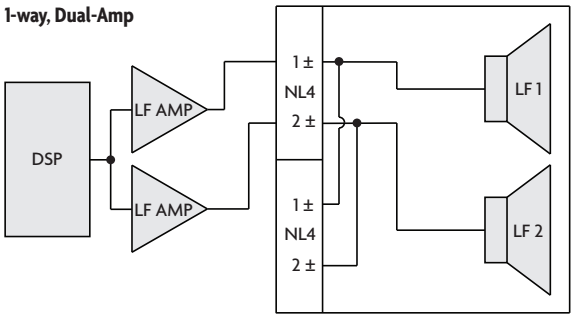
Connection Diagram

1-way, Single-Amp



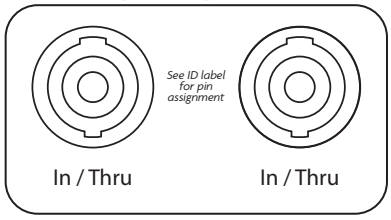
LF drivers must be paralleled by user outside the subwoofer

1-way, Dual-Amp



Connections

Neutrik NL4 Speakon Input



Mechanical Specification Drawings

2D and 3D DWG dimensional drawings are available for download at www.fulcrum-acoustic.com/resources

Notes

[1] **Performance Specifications** *All acoustic specifications rounded to nearest whole number. External DSP with Fulcrum Acoustic-provided settings is required to achieve the specified performance.*

[2] **Operating Range** *The frequency range within which the processed response is within 10 dB of the average.*

[3] **Power Handling** *Based on the AES power handling of the transducers.*

[4] **Nominal Sensitivity** *The 1-meter-referenced SPL produced by a 1 watt band limited pink noise signal, with no processing applied.*

[5] **Equalized Sensitivity** *The 1-meter-referenced SPL produced when an EIA-426-B signal is applied to an equalized loudspeaker system, at a level which produces a total power of 1 watt, in sum, to the loudspeaker subsections.*

[6] **Equalized Maximum SPL** *The 1-meter-referenced SPL produced when an EIA-426-B signal is applied to an equalized loudspeaker system, at a level which drives at least one subsection to its rated power.*

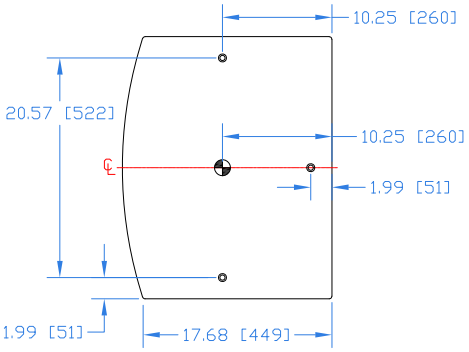
[7] **Resolution** *All response graphs are subjected to 1/6 octave cepstral smoothing with a gaussian weighting function.*

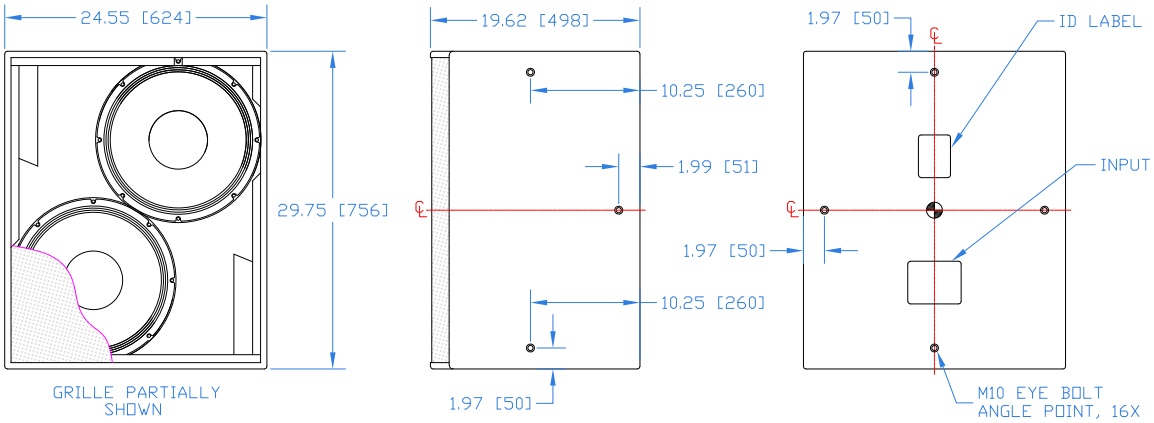
[8] **Axial Sensitivity** *The SPL plotted against frequency for a 1 watt swept sine wave, referenced to 1 m with no signal processing.*

[9] **Axial Processed Response** *The axial magnitude response with recommended signal processing applied.*

Notes:
1. Net Weight = Approx. 127.0 lb / 57.4 kg
2. Symbol ⊙ = M10 x 1.5 eye bolt angle point
3. Symbol ⊕ = CoG

REVISIONS		
REV	DESCRIPTION	APPR / DATE
1	RELEASED TO PRODUCTION	RAF 3/28/09
2	ADDED METRIC DIMENSIONS	RAF 5/4/09
3	ADDED COG, UPDATED WEIGHT	RAF 6/11/09
4	MOVED EB ANGLE POINTS	RAF 8/5/09
5	FIX COG DIM, ROUND MM UNITS	RAF 3/9/11
6	ADD SHIPPING WEIGHT	RAF 12/12/11
7	UPDATE NOTES	RAF 2/10/26





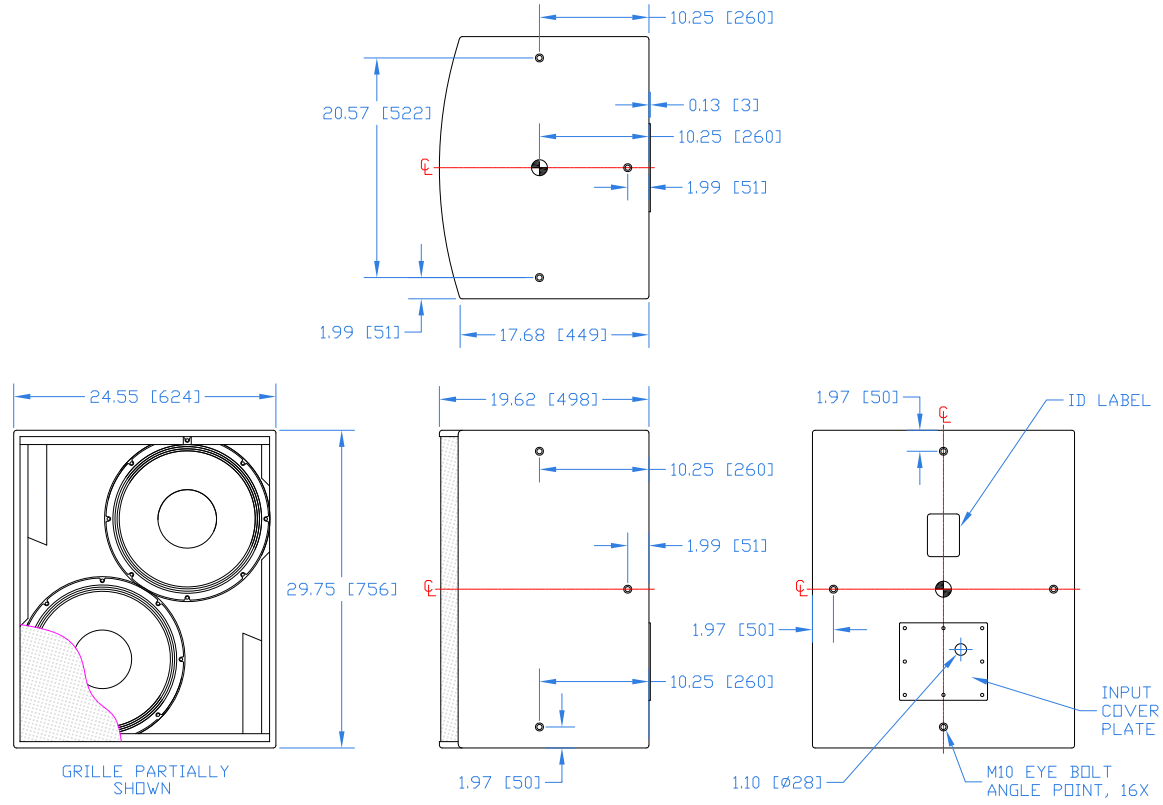
THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES TOLERANCE IN INCHES .X±.1 .XX±.015 .XXX±.005 FRACTIONS ±1/32 ANGLES ±1/2° (X.XX) = REF DIMS NO TOLERANCE IMPLIED TSC = THEORETICAL SHARP CORNER DIMENSIONS ACROSS CENTERLINES TO BE SYMETRICAL	STATUS RELEASED	FULCRUM ACOUSTIC, LLC 1 MAIN STREET, WHITINSVILLE, MA 01588 USA
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		CHECKED: RAF 3/9/11	
		DES ENG:	B SHEET 1 OF 1 SCALE: 1:16
		MFG ENG:	DWG. NO. 820-100-010 REV 7

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Notes:
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2. Symbol ⊙ = M10 x 1.5 eye bolt angle point
3. Symbol ⊕ = CoG

REVISIONS		
REV	DESCRIPTION	APPR / DATE
1	NEW ISSUE	RAF 3/7/16
2	CHANGE ENCLOSURE TO FRP	RAF 1/31/24
3	UPDATE NOTES	RAF 2/10/26



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