



# Sub215L

Dual 15 inch Direct-Radiating Subwoofer

**VLF** Install



## Overview

The Sub215L is a low profile, dual 15 inch vented subwoofer that is designed to provide extended low frequency support in a wide variety of installations. Its premium, high power transducers are physically engaging, yet are musically articulate enough to reproduce the subtlety and harmonic nuance of an upright bass or the low strings of a piano.

The Sub215L requires digital signal processing, and many platforms are supported. The Sub215L is an excellent option any time a subwoofer with robust SPL capability is required to fit under a short stage or similar structure. This makes it the perfect choice for large houses of worship or theatres, live reinforcement or dance systems, high intensity DJ monitors, A/V screening rooms, and distributed low frequency reinforcement in nightclubs and theme parks.

## Technologies

The two 15 inch woofers in the Sub215L 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<sup>1</sup>

### Operating Mode

Single-amplified w/ DSP

### Operating Range<sup>2</sup>

23 Hz to 131 Hz

### Nominal Beamwidth

Spherical within operating range

### Transducers

LF: 2x 15.0" woofers, 4.0" voice coil; ceramic magnet

### Power Handling @ Nominal Impedance<sup>3</sup>

89 V / 2000 W @ 4  $\Omega$  (2x 1000 W @ 8  $\Omega$ )

### Nominal Sensitivity @ Input Voltage<sup>4</sup> (half / whole space)

103 dB / 97 dB @ 2.00 V

### Nominal Maximum Continuous SPL (half / whole space)

142 dB / 136 dB peak  
136 dB / 130 dB continuous

### Equalized Sensitivity @ Input Voltage<sup>5</sup> (half / whole space)

98 dB / 92 dB @ 2.00 V

### Equalized Maximum SPL<sup>6</sup> (half / whole space)

137 dB / 131 dB peak  
131 dB / 125 dB continuous

### Recommended Power Amplifier

2000 W to 3000 W @ 4  $\Omega$

## Physical Specifications

### Connections

(2) Neutrik NL4 Speakon

Pin 1+/-: LF1

Pin 2+/-: LF2

### Mounting / Suspension Points

(12) M10 x 1.5 eye bolt angle points

### Dimensions / Weight

See page 4

### Finish

Black or white painted enclosure

*White enclosure does not include handles*

## Options

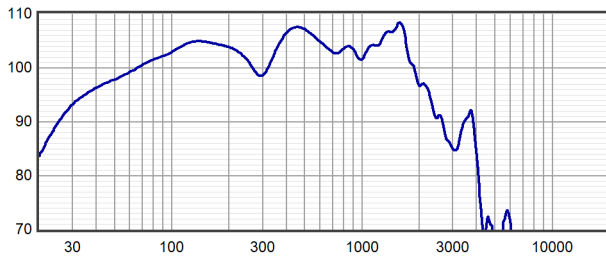
Terminal strip input, Custom color finish,

Weather-resistant (WR) enclosure

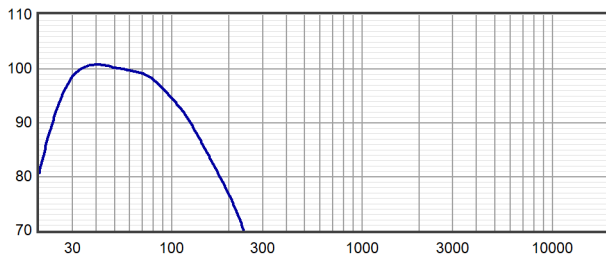


product specification

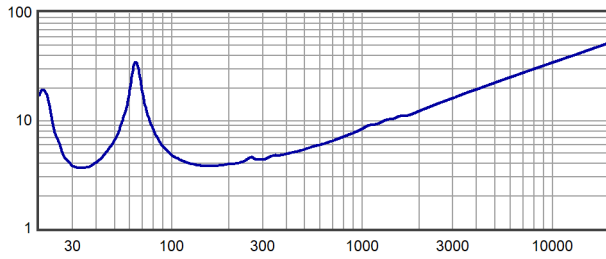
Axial Sensitivity (dB SPL, 2.00V @ 1 m, half space)<sup>7,8</sup>



Axial Processed Response (dB, half space)<sup>7,9</sup>



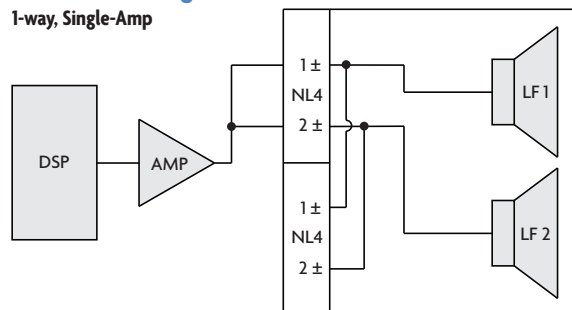
Impedance (ohms)



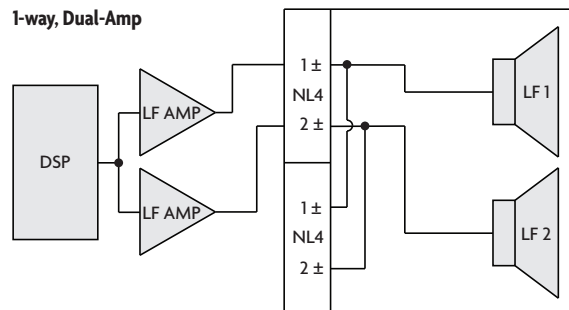


### Connection Diagram

#### 1-way, Single-Amp



#### 1-way, Dual-Amp



### Mechanical Specification Drawings




2D and 3D DXF dimensional drawings are available for download at [www.fulcrum-acoustic.com/support](http://www.fulcrum-acoustic.com/support).

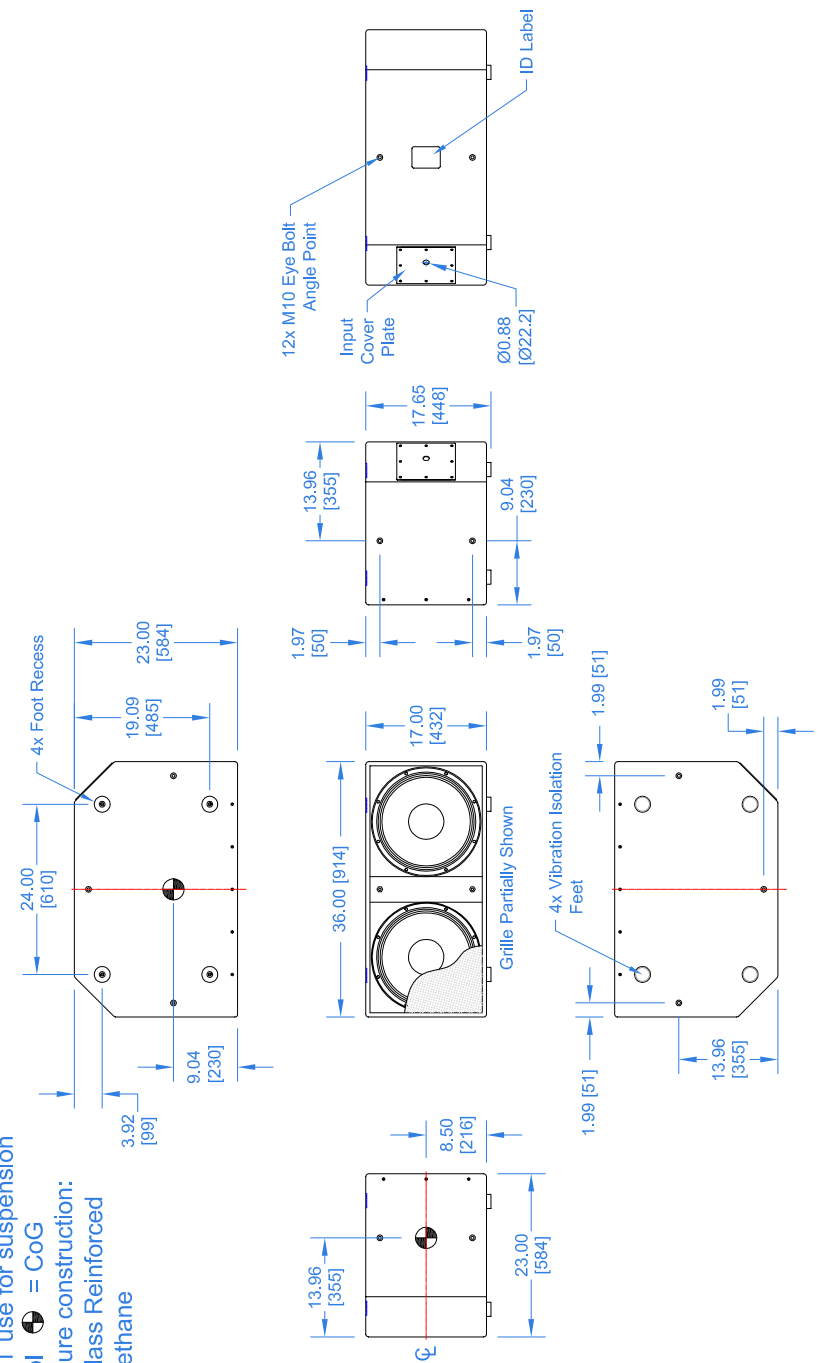
### Notes

- <sup>1</sup> **Performance Specifications** All acoustic specifications rounded to nearest whole number. External DSP with Fulcrum Acoustic-provided settings is required to achieve the specified performance.
- <sup>2</sup> **Operating Range** The frequency range within which the processed response is within 10 dB of the average.
- <sup>3</sup> **Power Handling** Based on the AES power handling of the transducers.
- <sup>4</sup> **Nominal Sensitivity** The 1-meter-referenced SPL produced by a 1 watt band limited pink noise signal, with no processing applied.
- <sup>5</sup> **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.
- <sup>6</sup> **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.
- <sup>7</sup> **Resolution** All response graphs are subjected to 1/6 octave cepstral smoothing with a gaussian weighting function.
- <sup>8</sup> **Axial Sensitivity** The SPL plotted against frequency for a 1 watt swept sine wave, referenced to 1 m with no signal processing.
- <sup>9</sup> **Axial Processed Response** The axial magnitude response with recommended signal processing applied.





REVISIONS		
REV	DESCRIPTION	APPR / DATE
1	New Issue.	DEW 05/22/2019
2	Add height dim w/foot & foot points top side	RAF 06/07/2019
3	Remove Handles from WR version.	DEW 07/03/2019

- Notes:
1. Net Weight = Approx. 114.5 lb / 51.9 kg
  2. Ship Weight = Approx. 127.5 lb / 57.8 kg
  3. Symbol  = M10 eye bolt angle point
  4. Symbol  = M10 foot mounting point; do NOT use for suspension
  5. Symbol  = CoG
  6. Enclosure construction: Fiberglass Reinforced Polyurethane



Drawing is reduced. Do not scale.

 <b>FULCRUM ACOUSTIC, LLC</b> 670 LINWOOD AVE LINWOOD, MA 01525 USA	<b>Sub 215L-WR</b>	
	TITLE: <b>Mechanical Spec,</b>	
UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES TOLERANCE IN INCHES X.XX±.1 X.XXX±0.015 X.XXXX±0.005 FRACTIONS ±1/32 ANGLES ±1/2° (X.XX) = REF DIMS NO TOLERANCE IMPLIED TSC = THEORETICAL SHARP CORNER DIMENSIONS ACROSS CENTERLINES TO BE SYMMETRICAL	<b>B</b> SHEET 1 OF 1	SCALE: 1 : 22
	DWG. NO. 820-100-132	REV 3
THIRD ANGLE PROJECTION 	THIS DRAWING IS THE PROPERTY OF FULCRUM ACOUSTIC, AND SHALL NOT BE COPIED, REPRODUCED, OR USED AS THE BASIS FOR MANUFACTURE OR SALE OF APPARATUS WITHOUT WRITTEN AUTHORIZATION. DO NOT SCALE DRAWING.	
DRAWN: DEW DATE: 5/22/19		