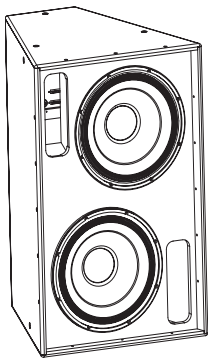
ALTEC LANSING

PROFESSIONAL

LF215-4A



FEATURES - THE ALTEC LANSING DIFFERENCE

- Dual 15" / 380mm Low Frequency Speaker
- High Performance 500 W AES / 2,000 W Peak Power Handling
- Excellent Broadband Efficiency – 103 dB SPL, 1 W 1 m
- Matching Footprint To Altec's DE6412 & DE9412
- Strong 13-Ply Birch Paintable Cabinet
- Steel Reinforced Suspension Points
- Forged Eyebolt Suspension Kit Included
- Available in Charcoal Gray or White Finishes

GENERAL PRODUCT DESCRIPTION

The LF215-4A is a dual 15" / 380mm subwoofer with the same footprint as the Altec Lansing DE6412 and DE9412 Duplex® full-range speaker systems. In addition to its use with Altec's DE & DS-series full-range speaker systems, the LF215-4A can be easily incorporated into component-based sound systems. The LF215-4A has been designed to provide extended low frequency performance in Auditoriums, Performing Arts Centers, Houses of Worship, or any facility requiring low frequency reinforcement for full-range music reproduction.

Two of the Altec model 4156-8A 15" / 380mm woofers are used in the LF215-4A. The drivers may be connected in parallel (for a single four ohm load) or driven individually (for two, eight ohm loads) via a switch and separate driver inputs. This robust component has been designed to deliver tight, punchy low frequency reproduction in vented speaker cabinets. The 4156-8A has a corrosion resistant die-cast frame and moisture-resistant cone for maximum durability in all environments.

The 13-ply birch plywood enclosure is paintable, and features steel reinforced suspension points. Altec Lansing includes a forged eyebolt suspension kit with each subwoofer. Input connections are via barrier strip or Neutrik® Speakon® connectors. The LF215-4A is offered in either charcoal grey or white, with contrasting cloth covered metal grille. Altec Lansing includes neutral grille cloth with each subwoofer, allowing you to dye the cloth to integrate the subwoofer into the surroundings.

The LF215-4A is designed to work in conjunction with Altec's DE6412 and DE9412 Duplex® 12"/300mm full-range speaker systems. Presets are available for the Altec Lansing 4048A 4-in x 8-out DSP Processor, allowing the system designer to easily incorporate the LF215-4A into multi-channel applications.

FREQUENCY RESPONSE [1, 2]
42 Hz - 650 Hz (±3 dB)

USABLE LOW FREQUENCY LIMIT (-10 dB) [1, 2]
33 Hz

SENSITIVITY [3]
103 dB SPL, (2.00 V input)

POWER HANDLING [4]
500 W continuous; 2,000 W peak

MAXIMUM OUTPUT (1 m) [5]
130 dB SPL continuous; 136 dB SPL peak

TRANSDUCER COMPONENTS
2x 15 in. Woofers (4156-8A)

IMPEDANCE [7]

Nominal:	4.0 Ω
Minimum:	3.5 Ω at 41 Hz

HARMONIC DISTORTION [8]

1% rated power	
2nd Harmonic	0.30%
3rd Harmonic	0.40%
THD	0.63%
10% rated power	
2nd Harmonic	1.38%
3rd Harmonic	0.49%
THD	1.54%

INPUT CONNECTIONS
2x 4 position barrier strip and 2x NL4

CONTROLS
Drivers in Parallel or Split Mode switch

ENCLOSURE MATERIALS & FINISH
18 mm, 13 ply Birch Plywood Finished with Charcoal Grey or White Catalyzed Polyurethane

SUSPENSION SYSTEM [9]
Working Load Limit (maximum weight applied to uppermost mounting point): tbd lbs. (tbd kg)
(12) 3/8 in.-16 Threaded Mounting Suspension Points (3 each top & bottom and 2 each sides & back)

DIMENSIONS
37.50 in. (H) x 24.13 in. (W) x 26.13 in. (D) x 10.13 in. (W rear)
953 mm (H) x 613 mm (W) x 664 mm (D) x 257 mm (W rear)

WEIGHT

Net	115 lbs. (52.3 kg)
Shipping	138 lbs. (62.7 kg)

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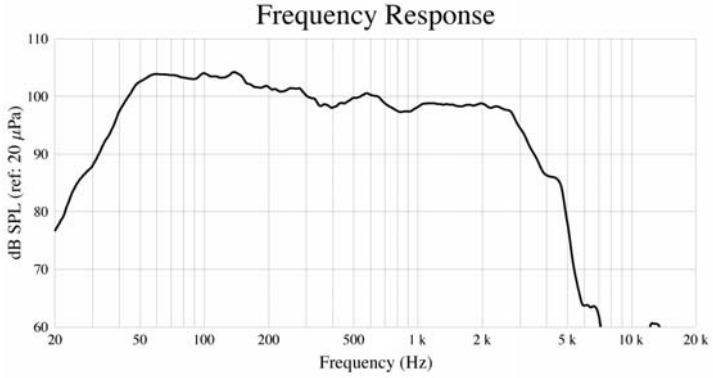
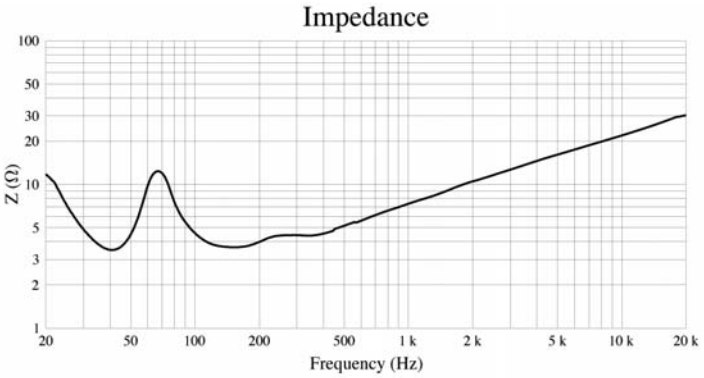
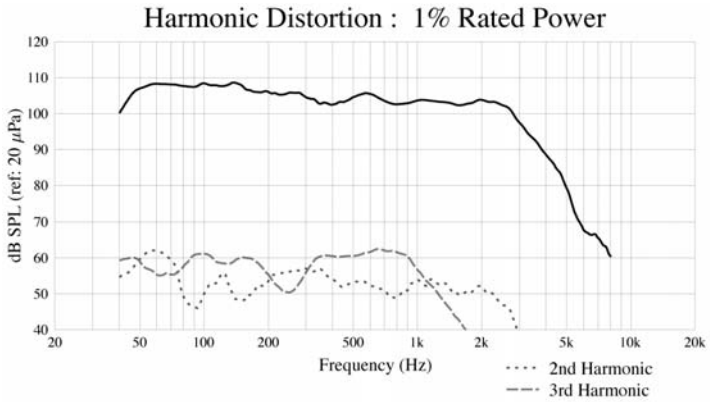
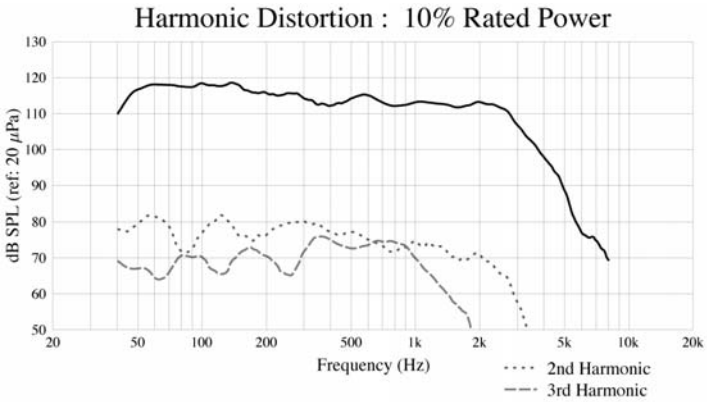
ARCHITECTS & ENGINEERS SPECIFICATION

The loudspeaker system shall be a low frequency, multi-purpose trapezoid enclosure consisting of two 15-inch / 380mm cast frame loudspeaker components with moisture-resistant cones. The loudspeaker system shall have an operating bandwidth of 42 Hz - 650 Hz with a sensitivity of 103 dB when measured at a distance of one meter. The power handling capability shall be 500 W AES (2,000 W peak). Nominal impedance shall be 4.0 ohms with a minimum impedance of 3.5 ohms at 41 Hz. The unit shall be a trapezoid enclosure constructed of 18 mm birch plywood with a cloth covered metal grille. The cabinet shall include integral steel-reinforced suspension points. Forged shoulder machinery eye bolts shall be included to facilitate the suspension of the speaker system. The dimensions shall be 37.50 inches (953 mm) high by 24.13 inches (613 mm) wide by 26.13 inches (664 mm) deep. The loudspeaker system shall weigh 115 pounds (52.3 kg). The loudspeaker system shall be the Altec Lansing Professional model LF215-4A.









LF215-4A

Altec Lansing Professional
Oklahoma City, OK 73116

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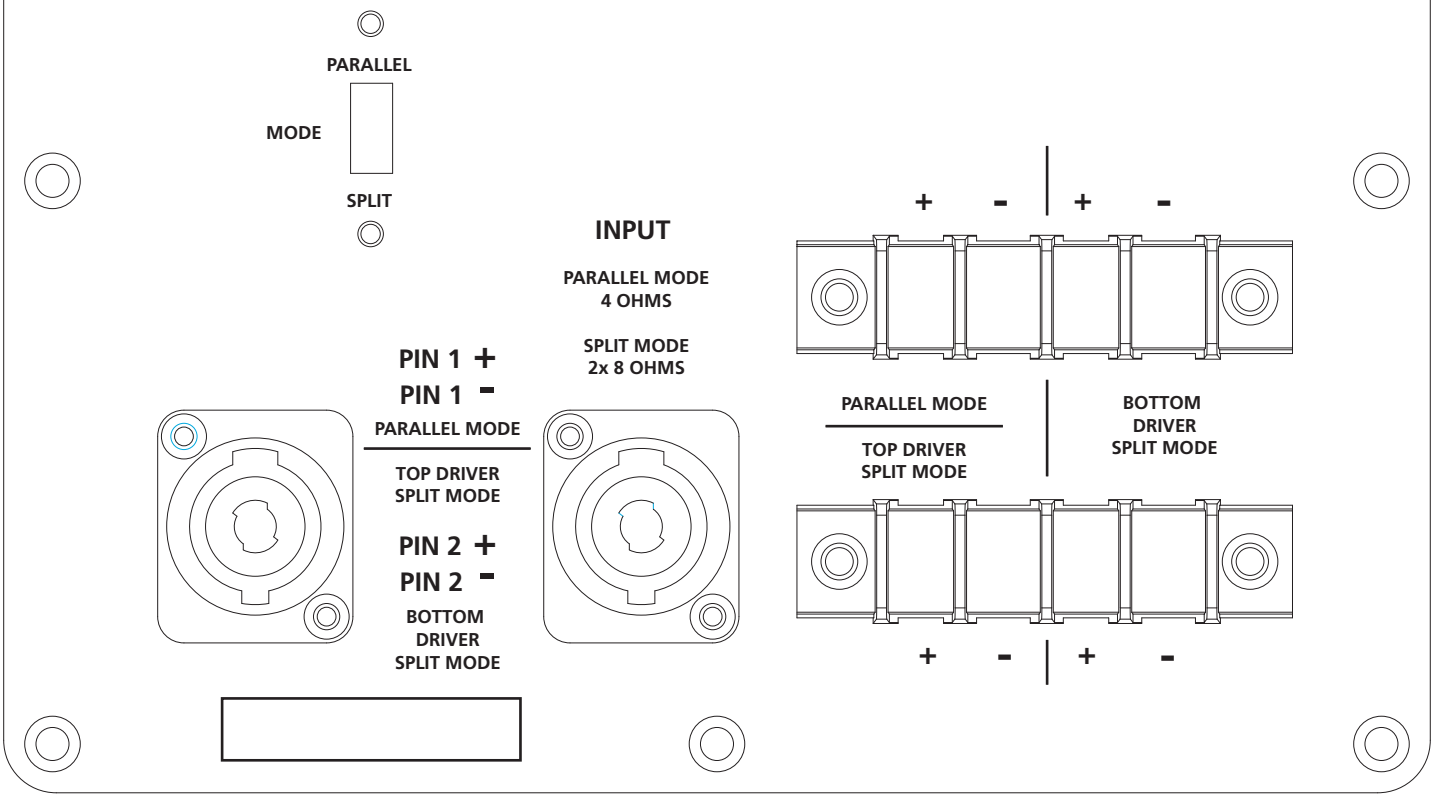
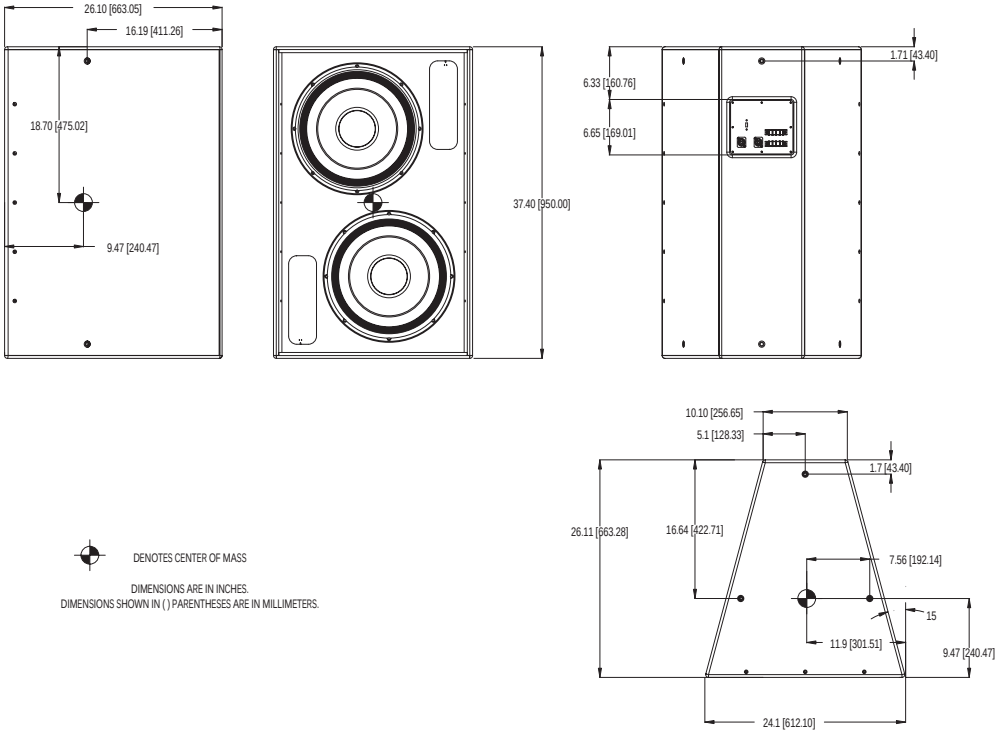


As we are continually striving to improve Altec Lansing products, specifications are subject to change without notice.
Please visit www.altecpro.com for the lastest information on Altec Lansing Professional products.

MOUNTING DIMENSIONS



SPECIFICATION NOTES

1 The frequency response of the loudspeaker system is measured at a distance of no less than 3 meters to obtain full range data. The level is then corrected to be equivalent to a 2.0 V 1 m measurement. A near field measurement of the loudspeaker system is performed for frequencies below 500 Hz. This data is then combined with the full range measurement to give an accurate composite frequency response curve.

2 The limits of the frequency response are referenced to -3 dB of the systems rated sensitivity.

3 The sensitivity of the loudspeaker system is the log based average SPL taken over the intended bandwidth of operation for the system with a 2.0 V swept sine stimulus. The data is measured and level corrected in a manner consistent with note 1.

4 The power handling capacity of the loudspeaker system is tested using a full range form of AES Standard 2-1984. The test stimulus is band limited (30 Hz – 300 Hz) pink noise with a 6 dB crest factor. The applied RMS voltage is determined using the minimum impedance of the system. The amplifier used to drive the system has a minimum operating headroom of 6 dB referenced to the RMS voltage.

5 The maximum output level of the loudspeaker system is calculated based on the sensitivity and the power handling capabilities of the system.

7 The minimum impedance of the loudspeaker system is taken over its intended band of operation.

8 The distortion measurements of the loudspeaker system are performed at a distance of 1 m with RMS input voltages corresponding to 1% and 10% of rated system power handling calculated using minimum system impedance. The distortion percentages are log based averages from 30 Hz – 300 Hz.

9 Before attempting to suspend the loudspeaker system, consult a certified structural engineer. This loudspeaker system can fall from improper suspension, resulting in serious injury and property damage. Maximum enclosure rigging angle is 45°. Use only the correct mating hardware, forged shoulder machinery eye bolt, Mil Spec MIL 51937-3. All associated rigging is the responsibility of others.

VISIT WWW.ALTECPRO.COM FOR

- Authorized EASE® data on Altec Lansing Professional speakers.
- Specification sheets in .pdf format. Download page 1 of the specification sheet for your submittals.
- One paragraph A & E Specifications in .doc format.

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