

LA212x Architectural Specifications

The loudspeaker shall be a fully horn loaded, axially symmetric 3-way line array comprising of two high power 12" (305 mm) reflex loaded low frequency transducer with a neodymium magnet assembly, one 10" (254mm) mid range transducer with a ferrite magnet assembly and two high frequency neodymium compression driver. The low frequency transducer shall be mounted in a tuned dipole array while the mid range transducer and the high frequency compression drivers shall be mounted coaxially.

The low frequency transducer shall be constructed on a rigid metal frame, with a 3" (76 mm) voice coil, wound with aluminium on a glass fibre former. The mid frequency transducer shall have a 2.5" (65 mm) voice coil, wound with aluminium on a glass fibre former. The high frequency compression driver shall have a 1.4" (36 mm) throat diameter, with a 3" (76 mm) voice coil diameter, wound with aluminium and a titanium diaphragm that shall project its sound through a waveguide with a symmetrical horn mouth.

The typical characteristics of a unit shall be; the directivity pattern shall be 90° horizontal by 8° vertical; the frequency response shall be from 60 Hz to 19 kHz with a low frequency extension of 52 Hz at minus 10 dB; the maximum output shall be 138 dB with a peak output of 145 dB measured in full space. The low frequency section shall have a nominal impedance of 2 x 8 Ω, a program power of 1600 W and a peak power of 3200 W. The mid frequency section shall have a nominal impedance of 16 Ω, a program power of 500 W and a peak power of 1000 W. The high frequency section shall have a nominal impedance of 16 Ω, a program power of 440 W and a peak power of 880 W.

The cabinet shall be constructed of 15 mm laminated birch plywood finished with a durable semi-matte black textured polyurethane coating. The rear of the cabinet shall have two NL8 connectors and two handles. The side of the cabinet shall have one handle on each side. It shall have integrated 4-point rigging system for arraying with multiple cabinets with an adjustable splay angle of 0° to 8° in 1° intervals. External dimension of the complete unit shall be 1020 x 380 x 501 mm (40.2" x 15" x 19.7") and it shall have a net weight of 66 kg (145.5lb).

The loudspeaker shall be the LA212x by NEXT-proaudio.