

110B

Model 110B Compact Loudspeaker

SOUNDSPHERE
LOUDSPEAKERS



Specifications: 110B

Mounting hardware included

Nominal Impedance	4 ohm
Power Handling	35W
Impedance (min)	4
Sensitivity dB @ 2.83V/1M	96 dB
Sensitivity dB @ 1W/1M (2)	93.0dB
Frequency Response (± 3 dB)	220 Hz - 18kHz
Frequency Response (± 10 dB)	100 Hz - 20 kHz
Max. Program Power	70 Watts
Max. Continuous Power RMS	35 Watts
Max. Power SPL @ 1 M	108.5 dB
Max. Power SPL @ 4M	96.5 dB
70.7 Volt Transformer Taps	30 / 107.8
100 Volt Transformer Taps (dB)	30 / 107.8
25 Volt Transformer Taps (dB)	30 / 107.8
Transformer insertion loss (dB)	≤ 1 dB
Low Frequency Voice Coil	25.4 mm / 1"
Coverage Angles	Vertical / 180
Coverage Angle (-6 dB @ 2 kHz) raw	165
Coverage Angle (-6 dB @ 10 kHz)	155
Coverage Angle (Ave from 2 to 10 kHz) raw	170
Coverage Angle (-6 dB @ 2 kHz)	165
Colors	Gloss black or textured white
Enclosure alignment	Sealed
Enclosure - material	Structural foam
Enclosure - description	Gloss black or textured white
Grille - material	N/A
Driver - part	Dual Cone 6-1/2"
Inputs	Flying leads
Height (SM = Height)	302 mm / 11.88 in
Diameter (SM = Width)	378 mm / 14.88 in
Weight	3.6 kg / 7.93 lb
Shipping Weight	5 kg / 11.02 lb
Packaging	1 per box

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Regulatory - RoHS

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Key Features

- » Hemispherical coverage pattern
- » Accurate, full-range voice announcements
- » Light weight enables many varied mounting possibilities
- » Fully assembled and ready to mount
- » Hanging or surface mount
- » Standard white (paintable) and custom colors available
- » Available with onboard amplification (Model 110B Power2)

Description

For seamless background music & clear voice announcements:

- Supermarkets & Retail Stores
- Factories
- Warehouses
- Courtrooms
- Classrooms & Other Educational Facilities
- Stadium or Arena Concourses, Gift Shops & Rest Rooms
- Airports & Transportation Centers
- Office Building Reception Areas
- Restaurants
- Casinos
- Shopping Center Common Areas & Food Courts
- And anywhere background music and articulate voice announcements are required.

The Soundsphere Model 110B loudspeaker was designed to provide clear voice announcements, seamless background music and even, omnidirectional coverage. The Model 110B is a compact, unobtrusive speaker that is just 10" in diameter and offers fast distributed system installation. Applications include retail stores; factories and warehouses; mass transportation centers; restaurants; and stadium and arena concourses, gift shops and rest rooms.

Accessories will be factory installed. If in doubt as to your application's requirements, please consult with Customer Service at the Soundsphere factory. The Model 110B is light weight which allows many mounting possibilities, using either our hanging kit or mounting bracket. Colors available in gloss black or textured white.

Applications

Providing full-range music and voice in a compact, unobtrusive enclosure, the 110B loudspeaker is ideal for applications such as supermarkets, retail stores, factories, warehouses, courtrooms, classrooms/other educational facilities, stadium/arena concourses, gift shops, rest rooms, airports/transportation centers, office building reception areas, restaurants, casinos, shopping center common areas/food courts and anywhere background music and articulate voice announcements are required.

Patented Soundsphere Technologies

Soundsphere and MSE Audio Group constantly develop new technologies that enhance audio product performance. Soundsphere innovations are protected by multiple patents that explicitly cover Soundsphere's dispersion and enclosure technologies. MSE Audio Group actively defends its patents in order to protect Soundsphere resellers and end users.

Patented Soundsphere Technologies

Soundsphere and MSE Audio Group constantly develop new technologies that enhance audio product performance. Soundsphere innovations are protected by multiple U.S. and international patents, which explicitly cover Soundsphere dispersion, enclosure and dome technologies. MSE Audio Group actively defends its patents in order to protect Soundsphere resellers and end users.

Technical Data and Specification Tools

Technical Data

Soundsphere strives to provide complete and effective technical information and data to dealers, engineers and designers. All data are available from SoundTube Entertainment or at www.soundtube.com. Technical data and downloads include: EASE™ data - 3-D polar plots. EASE™ Address - 2-D modeling for distributed systems Autodesk® Revit® software Tech Sheets - Technical information and architectural specs for system engineers SoundTubeSPEC™ - Proprietary speaker placement software

Data Acquisition and Verification

All data for Soundsphere speakers are independently collected from and verified by NWAA Labs (www.nwaalabs.com) using their proprietary MACH testing system. All data are collected and analyzed according to ASTM, ISO and AES standards using EASRA, TEF and MLSSA. Full balloon data including both phase and magnitude are compiled into a variety of formats including EASE 4.x, GLL and CLF.

Architectural Specifications

The loudspeaker driver shall consist of one 6.5-inch (165 mm) full-range driver made of treated pulp fiber. Performance specifications of a typical production unit shall be as follows: Useable frequency response shall extend from 100 Hz to 0 kHz (-10 dB). The vertical polar coverage shall be 170° ±6 dB. Measured sensitivity (1 Watt/ 1 meter) shall be at least 93 dB. The speaker shall have a rated impedance of 4 ohms. The speaker shall be available for 25-, 50-, 70- and 100-Volt odes and shall include 7 power tap selection leads for use with electrical wire nuts or crimp caps. Rated power capacity shall be at least 35 Watts continuous RMS and conform to EIA-426-B testing. Calculated maximum continuous output at eter shall be 108.5 dB. The complete loudspeaker shall be no more than 11.875 inches (302 mm) in height. The driver shall be mounted in a spherical enclosure made of structural foam polystyrene that is no more than 10 inches (254 mm) in diameter. The reflector shall be no more than 14.875 inches (378 mm) in diameter. The complete loudspeaker shall weigh no more than 8 lbs. (3.6 kg). Hardware shall be rust and corrosion resistant. Optional accessories shall include: a 30-Watt Line Matching Transformer (TX30) with taps for 25-, 50-, 70- and 100-Volt constant voltage systems; a Mounting Bracket (MBS) to mount flat against a ceiling surface; a three-element Hanging Kit (HK) for single-point suspension; a 24" Hanging Kit Extension (HKEXT); a Beam Clip (BC) for mounting to a beam flange; a Drop Ceiling Bracket (DCB); a Small Screen (SS) to protect the speaker from foreign objects; a Small Screen with Weather Filter (SWFS) that dditionally offers a water protection barrier; and a Dust Filer (110SF). An optional 30-Watt onboard amplifier (Power2) makes a separate amplifier unnecessary in applications where only a single wide-dispersion speaker is required for coverage. The system shall be the Soundsphere® Model 110B for wide-range, wide-coverage sound dispersion.

Soundsphere

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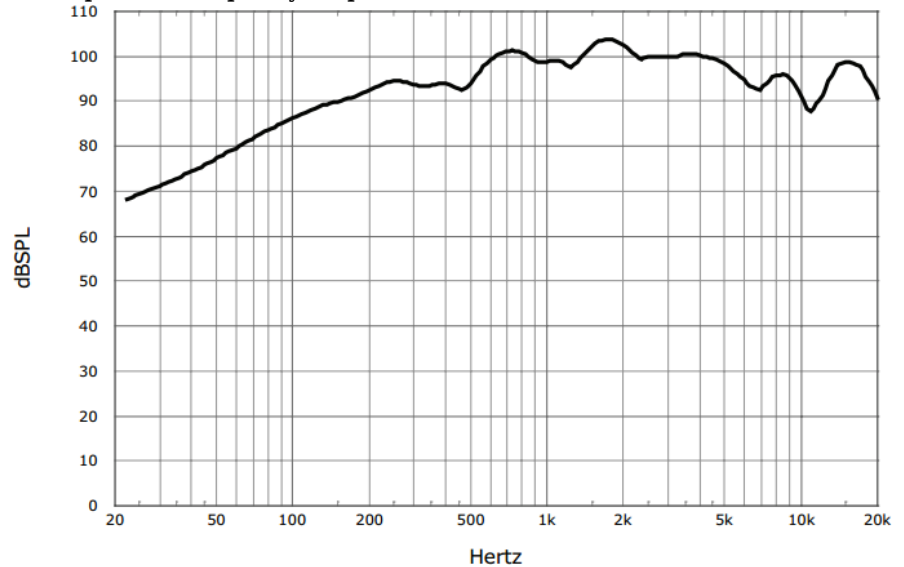
All Soundsphere products come with a 5-year limited warranty.

Graphs and Plots

Directivity Index



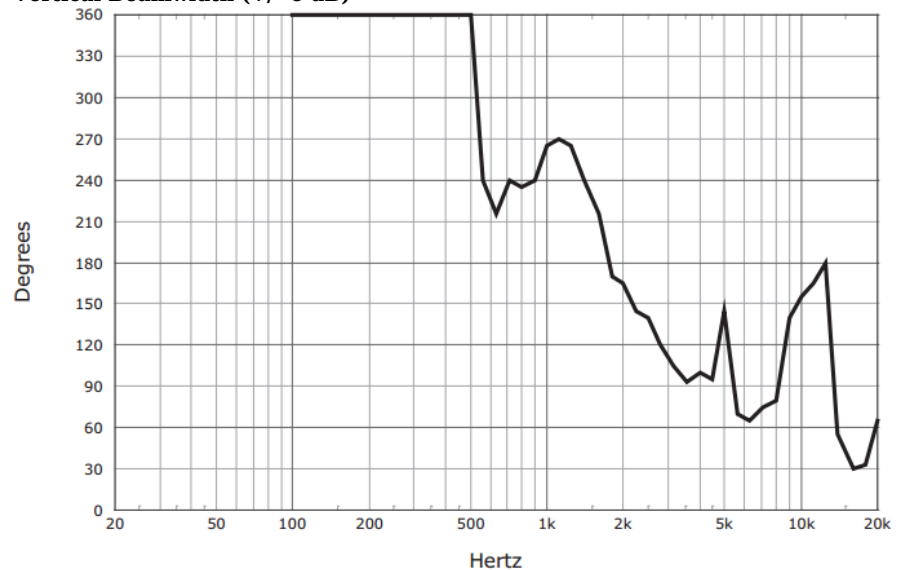
Hemispherical Frequency Response



Impedance/Phase



Vertical Beamwidth (+/- 6 dB)



125 Hz

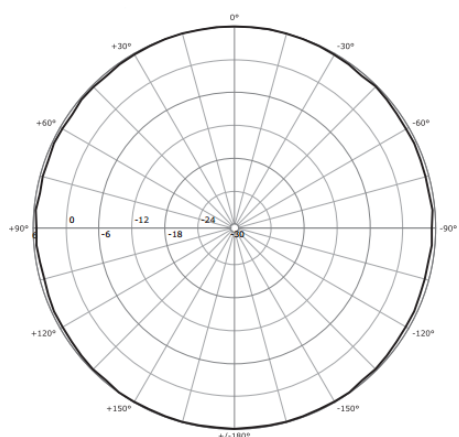
250
Hz500
Hz

500 Hz

110B

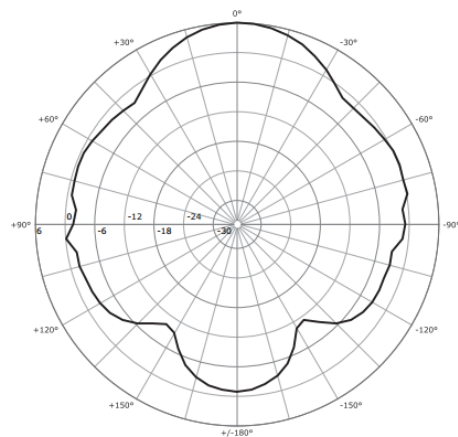
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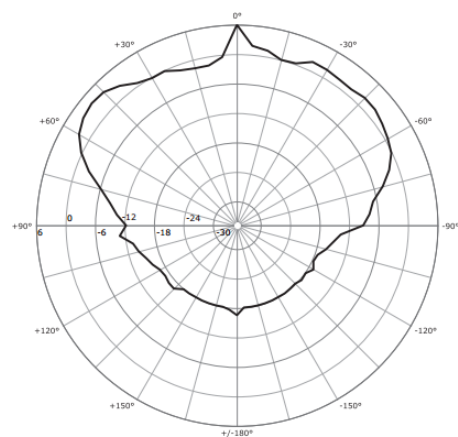
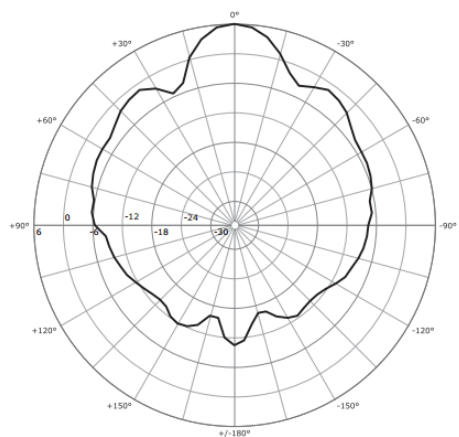


2000 Hz

4000 Hz **8000 Hz**



8000 Hz

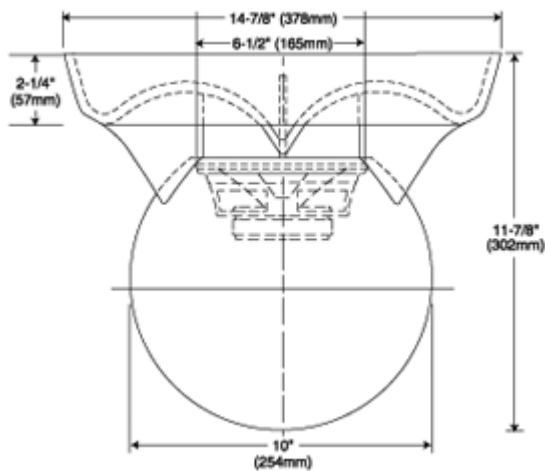


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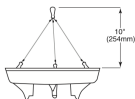
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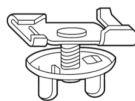
Mechanical Drawings



Optional Accessories



Hanging Kit (HK)



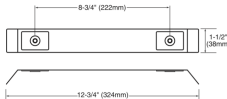
Drop Ceiling Bracket (DCB)



Driver Protection Screen (SS)



Small Screen (SS)



Mounting Bracket (MBS)



Line Transformer (TX30)



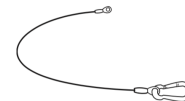
Driver Protection Screen (SWFS)



Small Screen with Weather Filter (SWFS)



Beam Flange Kit (BC)



Hanging Kit Extension (HKEXT)

Dust Filter (110SF)