

# 110 Page

## MODEL 110 PAGE PAGING LOUDSPEAKER

**SOUNDSPHERE**  
LOUDSPEAKERS



### Specifications: 110 Page

### Mounting hardware included

Nominal Impedance	4 ohms
Power Handling	60W
Impedance (min)	4
Sensitivity dB @ 2.83V/1M	101 dB (measured from 300 Hz - 3 KHz)
Sensitivity dB @ 1W/1M (2)	98 dB (measured from 300 Hz - 3 kHz)
Frequency Response ( $\pm 3$ dB)	500 Hz - 5.5 kHz
Frequency Response ( $\pm 10$ dB)	150 Hz - 11 kHz
Max. Program Power	120 W
Max. Continuous Power RMS	60 W
Max. Power SPL @ 1 M	116 dB
Max. Power SPL @ 4M	104 dB
70.7 Volt Transformer Taps	60 / 115.8
100 Volt Transformer Taps (dB)	60 / 115.8
Transformer insertion loss (dB)	$\leq 1$
Transformer Options	Optional 60 W with taps for 25-, 70- and 100-volt systems - planned
Transducer - Low Frequency Driver	6-1/2" (165 mm) treated pulp fiber
Low Frequency Voice Coil	25.4 mm / 1"
Coverage Angles	Coverage Angle ( $\pm 6$ dB @ 500 Hz) / 180
Enclosure alignment	Sealed
Enclosure - material	Structural foam polystyrene with rustproof hardware
Inputs	Hard-wire leads
Height (SM = Height)	302 mm / 11-7/8"
Diameter (SM = Width)	254 mm / 10"
Weight	3.6 kg / 8 lbs
Shipping Weight	5 kg / 11 lbs
Packaging	One per box
Regulatory - CE	approved
Regulatory - RoHS	approved

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### Key Features

- » Clear voice announcements in high-noise environments
- » Hemispherical coverage pattern
- » Neodymium-ferrite hybrid magnet system for superior sensitivity
- » Covers more area than other speakers
- » Cost-effective solution for applications where OSHA compliance is required
- » Compact, lightweight speaker
- » Arrives fully assembled, with many mounting possibilities
- » Standard white (paintable) and custom colors available

### Description

#### Economical Loudspeaker for Clear Paging in High-Noise Environments

Soundsphere's Model 110 Page paging loudspeaker was designed to provide an economical solution for high-powered, clear voice announcements in the most challenging environments, including those with high ambient noise.

The 110 Page speaker is ideal for applications where critical announcements need to be both heard and understood, including:

- Factories
- Warehouses
- Fire houses/EMS facilities
- Airports
- Train stations
- Cruise terminals
- Correctional institutions
- Municipal buildings

Unlike conventional paging horns that deliver harsh, unintelligible sound, the 110 Page leverages Soundsphere's trademark 360-degree horizontal dispersion for superior off-axis response and extremely high intelligibility. The paging speaker's broad coverage range covers more area than other speakers and paging horns, making it a cost-effective solution across a wide variety of applications. A Neodymium-ferrite hybrid magnet system provides superior sensitivity. For applications where OSHA compliance is required, the 110 Page is a cost-effective solution that does not compromise on performance or aesthetics.

The 110 Page is a compact, lightweight, unobtrusive speaker with a sphere that is just 10" in diameter. It comes fully assembled and ready to mount using our hanging kit or

mounting bracket.

### Applications

Providing clear paging – even under challenging, high-noise conditions – the 110 Page loudspeaker is ideal for applications such as factories, warehouses, fire houses, airports, train stations, cruise terminals, correctional institutions and anywhere that articulate voice announcements are critical.

### 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](http://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](http://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 treated pulp fiber unit. Performance specifications of a typical production unit shall be as follows: Useable frequency response shall extend from 150 Hz to 11 kHz (-10 dB). The vertical polar coverage shall be 150° ±6 dB. Measured sensitivity (1 Watt/ 1 meter) shall be at least 98 dB. The speaker shall have a rated impedance of 4 ohms. The speaker shall be available for 25-, 70- and 100-Volt modes and shall include 7 power tap selection leads for use with electrical wire nuts or crimp caps. Rated power capacity shall be at least 60 Watts continuous RMS and conform to EIA-426-B testing. Calculated maximum continuous output at 1 meter shall be 116 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 60-Watt Line matching Transformer (TX60) with taps for 25-, 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 additionally offers a water protection barrier; and a Dust Filter (110SF). The system shall be the Soundsphere® Model 110 Page for clear voice announcements, even in high-noise environments.

### Soundsphere

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

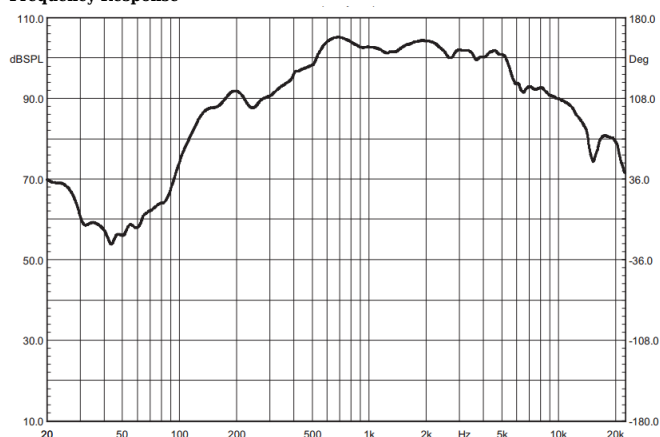
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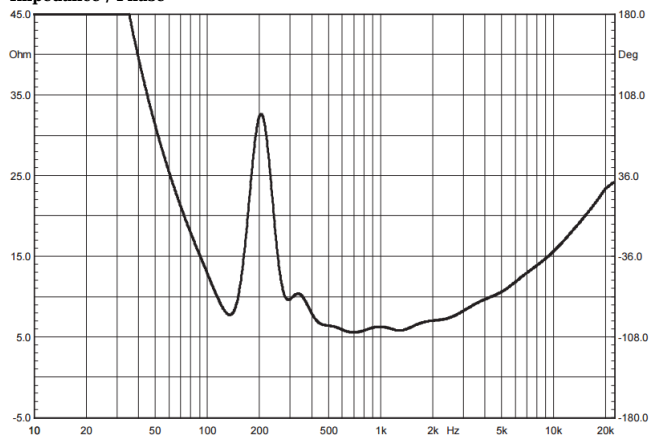
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### Graphs and Plots

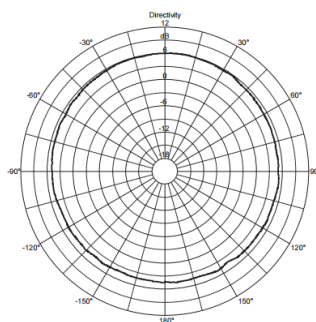
Frequency Response



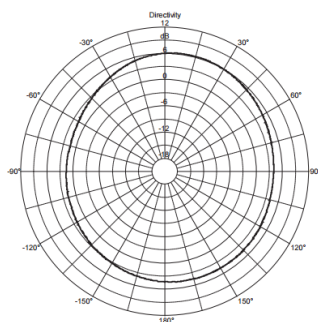
Impedance / Phase



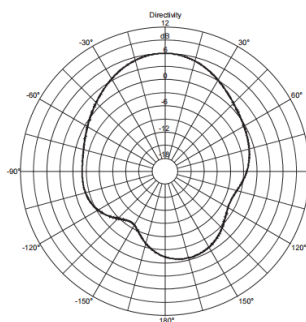
**125 Hz**



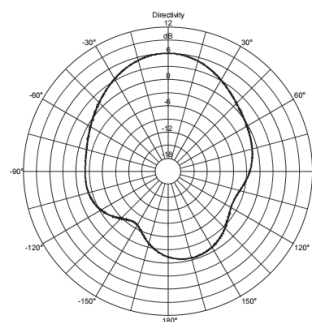
**250 Hz**



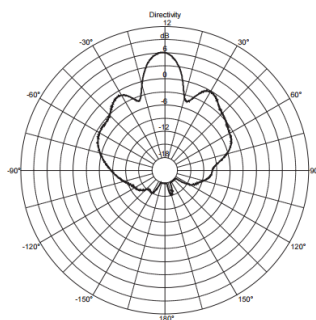
**500 Hz**



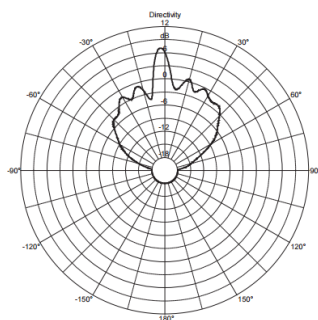
**500 Hz**



**2000 Hz**



**4000 Hz**

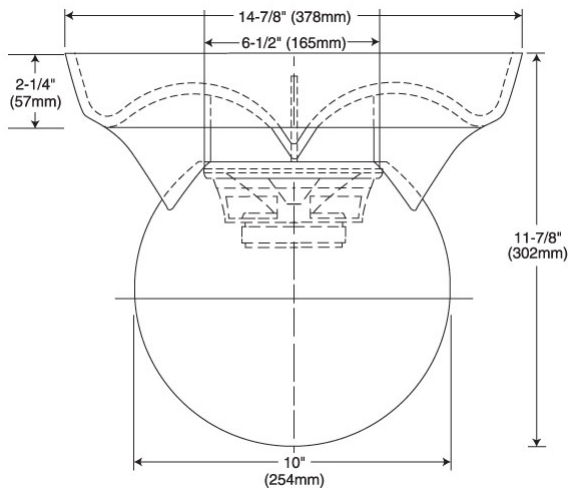


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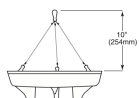
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### Mechanical Drawings



### Optional Accessories

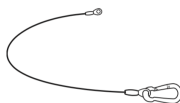


**Hanging Kit (HK)**



**Beam Flange Kit (BC)**

**60-Watt Line Matching  
Transformer (TX60)**



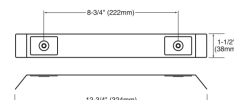
**Hanging Kit Extension  
(HKEXT)**



**Drop Ceiling Bracket  
(DCB)**

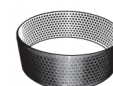


**Small Screen (SS)**



**Mounting Bracket (MBS)**

**Dust Filter (110SF)**



**Small Screen with  
Weather Filter (SWFS)**