

Q-8

Model Q-8 Loudspeaker

SOUNDSPHERE
LOUDSPEAKERS



Specifications: Q-8

Mounting hardware included

Nominal Impedance	8 ohms
Power Handling	100W
Sensitivity dB @ 2.83V/1M	93 dB
Sensitivity dB @ 1W/1M (2)	93 dB
Frequency Response (± 3 dB)	200 Hz - 17 kHz
Frequency Response (± 10 dB)	80 Hz - 20 kHz
Max. Program Power	200 W
Max. Continuous Power RMS	100 W
Max. Power SPL @ 1 M	113 dB
Max. Power SPL @ 4M	101 dB
70.7 Volt Transformer Taps	100 / 113.0
100 Volt Transformer Taps (dB)	100 / 113.0
25 Volt Transformer Taps (dB)	25 / 107.0
Transformer insertion loss (dB)	≤ 1
Low Frequency Voice Coil	50.8 mm / 2"
Coverage Angles	Vertical / 180
Coverage Angle (-6 dB @ 2 kHz) raw	135
Enclosure alignment	Sealed
Enclosure - material	Fiberglass with gelcoat finish; rust-resistant hardware
Enclosure - description	Gloss black or textured white
Inputs	Hard-wire leads
Height (SM = Height)	483 mm / 19"
Diameter (SM = Width)	Sphere: 406 mm / Sphere: 16"
Weight	10 kg / 22 lbs
Shipping Weight	13.6 kg / 30 lbs
Packaging	One per box
Regulatory - CE	approved
Regulatory - RoHS	approved

Key Features

- » Hemispherical coverage pattern
- » Accurate, full-range voice announcements
- » Enhanced high-fidelity music reproduction
- » High sensitivity
- » High power handling capability
- » Hanging or surface mount
- » Standard white (paintable) and custom colors available

Description

Offering high sensitivity & power handling capabilities:

- Restaurants
- Bars & Nightclubs
- Hotel Lobbies & Atriums
- Factories
- Courtrooms
- Gymnasiums
- Educational Facilities
- Churches
- Retail Stores
- Shopping Centers
- Airports
- And applications where clear voice announcements and high-fidelity music are required.

The Model Q-8 is more robust than our compact Soundsphere loudspeakers models, offering greater sensitivity and power-handling capability. The Q-8 was designed to provide clear voice announcements and high-fidelity foreground and background music for applications such as restaurants, courtrooms, churches, shopping centers and airports.

The Q-8 offers Soundsphere's trademark hemispherical coverage pattern and is distinguished by its high sensitivity (94dB 1W/1m) and high power handling capability (100 watts RMS). The Q-8 is available for either surface or hanging mounts, in gloss black or textured white.

Applications

Providing high-fidelity, full-range music and voice, the Q-8 loudspeaker is ideal for applications such as restaurants, bars/nightclubs, hotel lobbies/atriums, courtrooms, gymnasiums, educational facilities, churches, retail stores, shopping centers, airports and anywhere clear voice announcements and high-fidelity foreground music 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 NWAALabs (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 8-inch (203 mm) treated pulp fiber woofer with a 3/4-inch (19 mm) mylar dome tweeter mounted coaxially. Performance specifications of a typical production unit shall be as follows: Useable frequency response shall extend from 80 Hz to 20 kHz (-10 dB). The vertical polar coverage shall be 175° ±6 dB. Measured sensitivity (1 Watt/1 meter) shall be at least 93 dB. The speaker shall have a rated impedance of 8 ohms. The speaker shall be available for 25-, 70- and 100-Volt modes and shall include 6 power tap selection leads for use with electrical wire nuts or crimp caps. Rated power capacity shall be at least 100 Watts continuous (RMS) and conform to

EIA-426-B esting. Calculated maximum continuous output at 1 meter shall be 113 dB. The complete loudspeaker shall be no more than 19 inches (483 mm) in height. The driver shall be mounted in a spherical enclosure made of fiberglass with gelcoat finish that is no more than 16 inches (406 mm) in diameter. The reflector shall be no more than 20 inches (508 mm) in diameter. The complete loudspeaker shall weigh no more than 22.5 lbs. (10.2 kg). All hardware shall be rust- and corrosion-resistant stainless or plated steel. Optional accessories shall include: a 100-Watt Line Matching Transformer (TX100) with taps for 25-, 70- and 100-Volt constant voltage systems; a Mounting Bracket (MBM) to mount flat against a ceiling surface; a three-element Hanging Kit (HK) for single-point suspension; a 24" Hanging Kit Extension (HKEXT); a Universal Beam Clamp (BCM) with safety strap; a Medium Screen (SM) to protect the speaker from foreign objects; and a Medium Screen with Weather Filter (SWFM) that additionally offers a water protection barrier. The system shall be the Soundsphere® Model Q-8 for high-sensitivity, high-power sound dispersion.

Soundsphere

8005 W 110th St., Suite 208

Overland Park, ks 66210

Phone 913.663.5600

Fax

Toll Free 855.663.5600

<https://soundsphere.mseaudio.com>

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

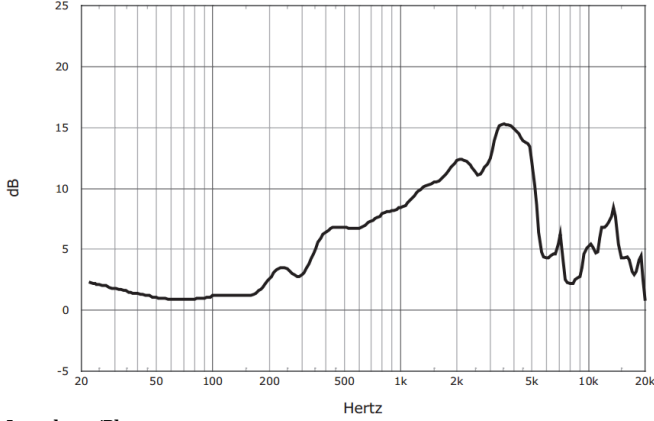
Q-8

Model Q-8 Loudspeaker

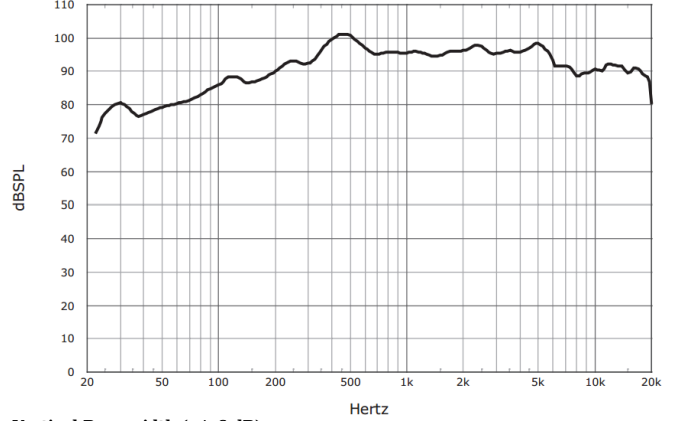
SOUNDSPHERE
LOUDSPEAKERS

Graphs and Plots

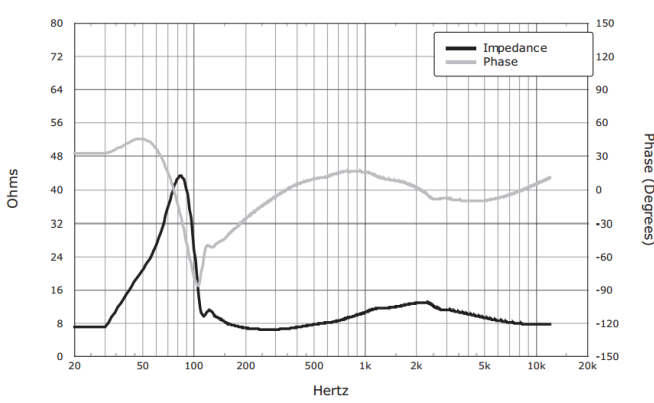
Directivity Index



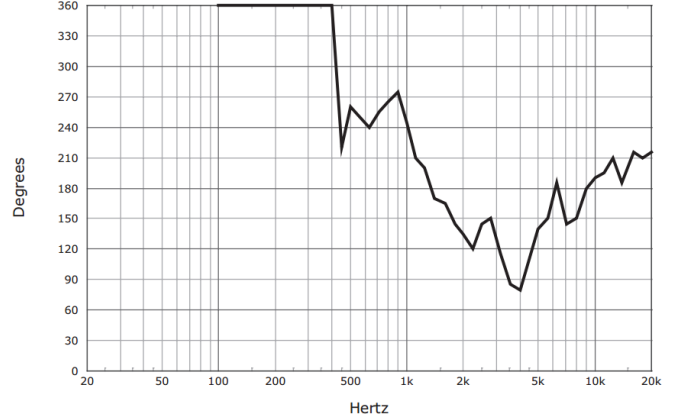
Hemispherical Frequency Response



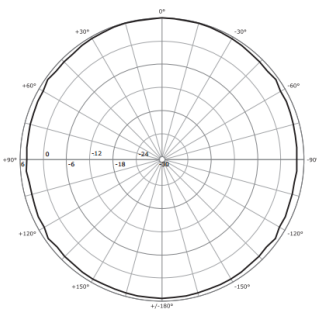
Impedance/Phase



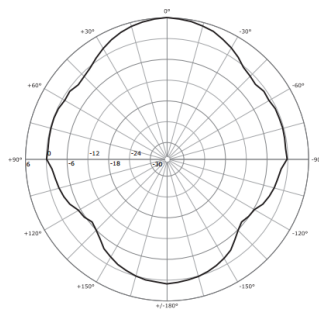
Vertical Beamwidth (+/- 6 dB)



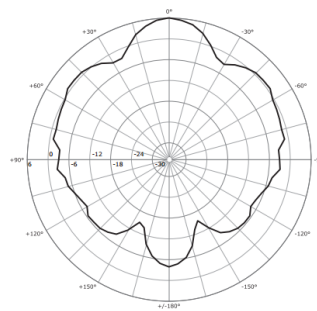
125 Hz



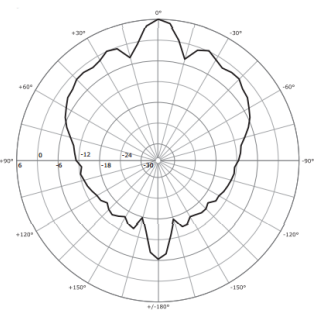
250 Hz



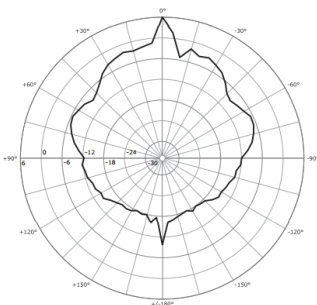
1000 Hz



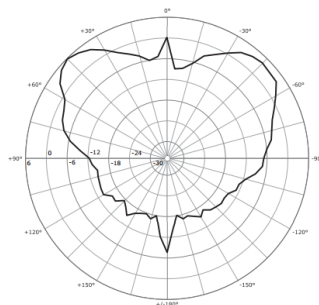
1000 Hz



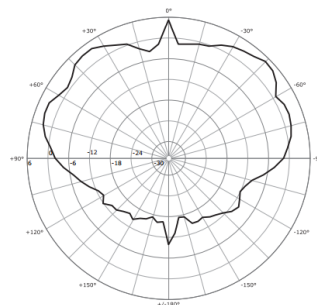
4000 Hz



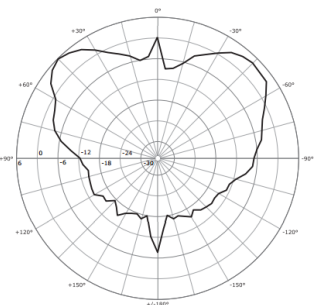
500 Hz



10000 Hz



10000 Hz

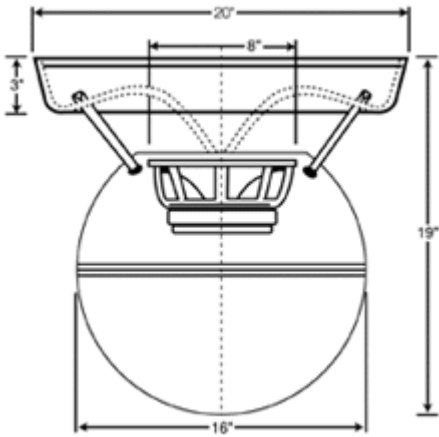


Q-8

Model Q-8 Loudspeaker

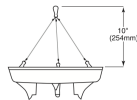
SOUNDSPHERE
LOUDSPEAKERS

Mechanical Drawings

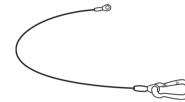


Optional Accessories

Line Transformer (TX100)



Hanging Kit (HK)



Hanging Kit Extension (HKEXT)

Mounting Bracket (MBM)

Universal Beam Clamp (BCM)



Driver Protection Screen (SM)



Driver Protection Screen (SWFM)