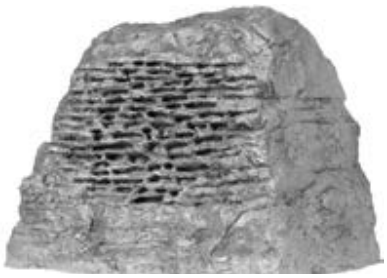
Octorock™

Outdoor/On-Ground Speaker
Preliminary Technical Information for System Engineers

Rock Series

Rockustics®



Preliminary Specification:
Octorock

System Type	8.0” coaxial, 2-way, outdoor speaker (optional 64 Watt transformer available)
Impedance (nominal)	4 Ohms (nominal)
Sensitivity dB @ 2.38 V/1m[3]	90 dB
Sensitivity dB @ 1W/1m	87 dB
Frequency Response (-3 dB)[1]	96 Hz - 18 kHz
Frequency Response (-10 dB)[1]	71 Hz - 22 kHz
Max. Program Power	92 dB
Coverage Angle (-6 dB @ 2 kHz)	95°
Coverage Angle (-6 dB @ 10 kHz)	105°
Transducer - Low-Frequency Driver	203.2 mm (8.0 in.) Polypropylene cone, butyl rubber surround
Transducer - High-Frequency Driver	19 mm (0.75 in.) mylar dome tweeter
Low-Frequency Voice Coil	38.1 mm (1.5 in.)
Enclosure Material	Cast polyester resin
Inputs	Wire lead
Color Options	Brown, gray or sandstone
Width	406.4 mm (16 in.)
Height	311.2 mm (12.25 in.)
Depth	317.5 mm (12.5 in.)
Weight	14.5 kg (32 lbs.)
Included Accessories	N/A
Optional Accessories	64 Watt transformer
Packaging	1 Per box
Regulatory - CE	Approved
RoHS	Approved

[1] Frequency response is measured in half space

[2] Continuous power rating, EIA-426-B test

[3] 2.83 Volts at a distance of 1 meter.

Key Features

• One coaxial 8.0 inch (203.2 mm) polypropylene driver with butyl rubber surround and one 0.75 inch (19 mm) mylar dome tweeter.
• UV-, scratch-, chlorine- and weather-resistant enclosure with professional-grade components for long-lasting performance and durability.
• Weathered look of commonly found gneiss in a 2-way, 100 Watt speaker
Color options: brown, gray or sandstone
• Optional accessories: 64 Watt 70/100 volt transformer

Description

The Rockustics Octorock is a premium 2-way outdoor loudspeaker solution for installations requiring high-performance sound in a design that matches the aesthetics of its environment. The Octorock is designed for full-range background/foreground music and paging. The sealed on-ground enclosure is designed to withstand rain, frost, snow and ice.

Applications

Its natural, weathered stone aesthetic makes the Octorock an ideal choice for theme parks, promenades, playgrounds, shopping malls, restaurants, resorts, gardens and other outdoor applications. Ideal for larger areas or applications where additional bass response is required, the Octorock boasts a usable frequency response of 71 Hz - 22 kHz (-10 dB). Octorock speakers take advantage of an optional 64 Watt transformer (request prior to order) for use in commercial applications.

Enclosure Technology

All Rockustics cabinets are constructed from a non-polluting stone and resin compound. The cabinets maintain a natural aesthetic, weather and age naturally, and are an earth-friendly alternative to plastic construction. To ensure 100% water- and weatherproofing, all Rockustics products come as a sealed unit. Therefore, the inclusion of optional transformers must occur prior to completion by manufacturer.

Patented Rockustics Technologies

Rockustics and MSE Audio constantly develops new technologies that enhance audio product performance. Rockustics innovations are protected by multiple U.S. and international patents. MSE Audio actively defends its patents in order to protect Rockustics resellers and end users.

Technical Data and Specification Tools

Technical Data

Rockustics strives to provide complete and effective technical information and data to dealers, engineers and designers. All data are available from Rockustics or at www.rockustics.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

Data Acquisition and Verification

All performance data acquired within MSE Audio are analyzed using a variety of standard measurement techniques, including Measured Length Sequence (MLS) and Time Delay Spectrometry (TDS). Performance, development, and data acquisition tools include: Gold Line TEF 20, CLIO, LMS, LEAP, and proprietary modeling software. EASE™ data are acquired through an automated CLIO/Outline/ EASE™ interface.

Architectural Specifications

The loudspeaker shall be an on-ground, coaxial design consisting of one 203.2 mm (8.0 in.) low-frequency transducer and one 19 mm (0.75 in.) high-frequency transducer. The low-frequency voice coil diameter shall be 38.1 mm (1.5 in.)

Performance specifications of a typical production unit shall be as follows: Usable frequency response shall extend from 71 Hz - 22 kHz. Measured sensitivity (2.83 Volt input, 1 meter) shall be at least 90 dB. The loudspeaker shall have a nominal impedance of 4 Ohms.

The enclosure shall be constructed of a non-polluting stone and resin compound. Color options shall be brown, gray or sandstone. All transducers and network circuitry are weather-resistant and ship in a sealed enclosure.

The external wiring input connector shall be hardwire leads. The overall cabinet dimensions shall be no more than 406 mm (16.0 in.) in width by 311.2 mm (12.25 in.) in height and 317.55 mm (12.5 in.) in depth. The unit shall weigh no more than 14.5 kg (32 lbs.)

The system shall be the Octorock for both low and high impedance applications.

Rockustics

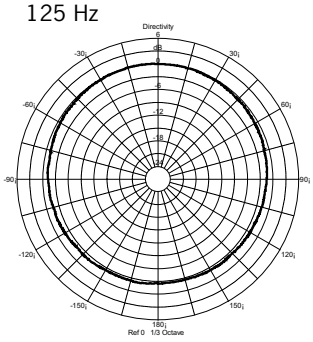
8005 W 110th Street
Sutie 208
Overland Park, KS 66210
Phone: 913.663.5600
Fax: 913.663.3200

www.rockustics.com

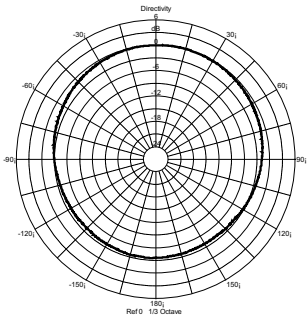
All Rockustics products come with a 10-year limited warranty.

Polar Plots

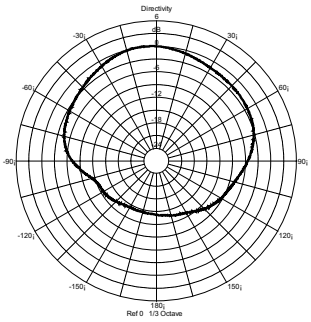
125 Hz



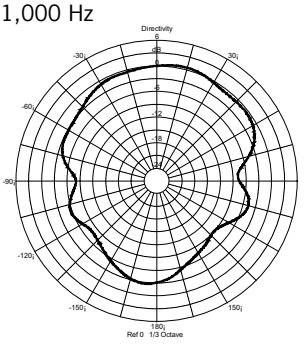
250 Hz



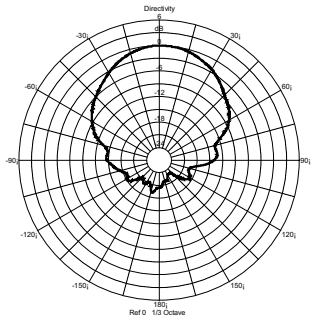
500 Hz



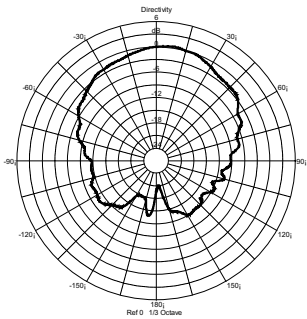
1,000 Hz



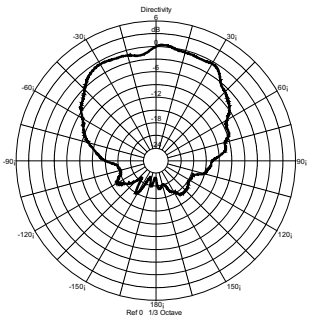
2,000 Hz



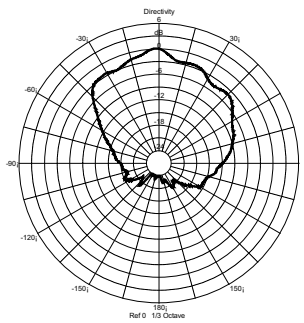
4,000 Hz



8,000 Hz

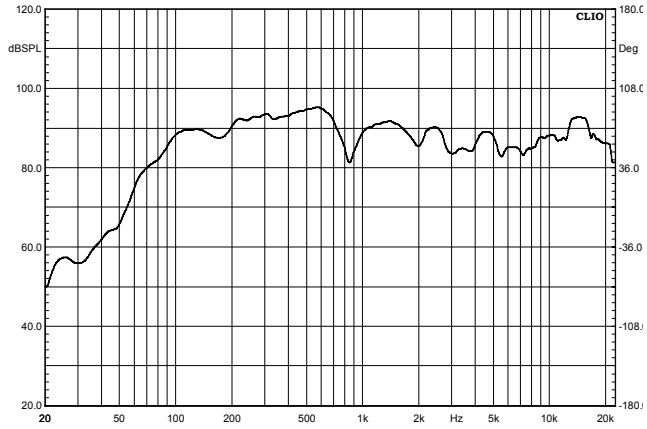


10,000 Hz



Graphs and Plots

Frequency Response



Impedance/Phase