

Preliminary Specifications: Octorock

System Type	8.0" coaxial, two-way, outdoor speaker (optional 64 Watt transformer available)
Impedance (nominal) ¹	4 Ohms (nominal)
Sensitivity dB @ 2.38 V/1m	90 dB
Sensitivity dB @ 1W/1m ²	87 dB
Frequency Response (-3 dB) ³	96 Hz - 18 kHz
Frequency Response (-10 dB) ³	71 Hz - 22 kHz
Max. Program Power ⁴	200 W
Max. Continuous Power RMS ⁵	100 W
Max. Power SPL @ 1 m ⁶	107.0 db
Directivity Factor (Q)	3.0 (averaged 100 Hz - 10 kHz); 4.9 dB (2 kHz)
Directivity Index (DI)	4.1 (averaged 100 Hz - 10 kHz); 6.9 dB (2 kHz)
Coverage Angle (-6 dB @ 2 kHz)	95°
Coverage Angle (-6 dB @ 10 kHz)	105°
Transducer- Low-Frequency Driver	203.2 mm (8.0 in) weather resistant
Transducer- High-Frequency Driver	25 mm (1.0 in.) weather resistant
Low-Frequency Voice Coil	38.1 mm (1.5 in)
Enclosure Material	Elastomer reinforced polymer with pulverised stone
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 Impedance listed per IEC 60268-5 with a minimum less than 80% the nominal impedance

² 1w1m sensitivity determined using nominal impedance

³ Frequency response measured in half or full space as dictated by speaker mounting configuration

⁴ Max program power is 3 dB above max continuous power

⁵ Continuous power rating, EIA-426-B test

⁶ Max output based on max continuous power

Rockustics continually develops new product innovations and improvements. Updates to existing products without prior notice are an example of Rockustics drive for constant improvement.

Transformer Taps (optional)

70.7 V	Output	100 V	Output	25 V	Output
64 W	105.0 dB	64 W	105.0 dB	8 W	96.0 dB
32 W	102.0 dB	32 W	102.0 dB	4 W	93.0 dB
16 W	99.0 dB	16 W	99.0 dB	2.0 W	90.0 dB
8 W	96.0 dB	8 W	96.0 dB	1.0 W	87.0 dB
4 W	93.0 dB				

Key Features

- One coaxial 8.0 inch (203.2 mm) weather resistant low frequency driver and one 1.0 inch (25 mm) weather resistant high frequency driver.
- 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 which matches the aesthetics of its environment. The Octorock is designed for full-range back-ground/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

The enclosure shall be constructed of a non-polluting elastomer reinforced resin polymer with pulverised stone. 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 317.5 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, Suite 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.

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.

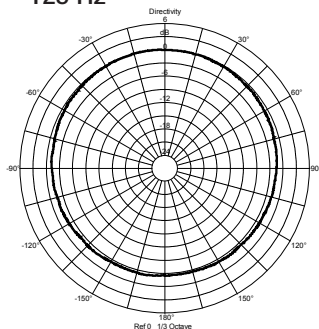
Architectural Specifications

The loudspeaker shall be an on-ground, coaxial design consisting of one 203.2 mm (8.0 in) low-frequency transducer and one 25 mm (1.0 in.) high-frequency transducer. The low-frequency voice coil diameter shall be 38.1 mm (1.5 in).

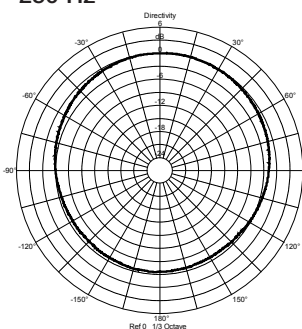
Performance specifications of a typical production unit shall be as follows: Usable frequency response shall extend from 71 Hz – 22 kHz. Measured sensitivity (2.83 Volt input, 1 meter) shall be at least 90 dB. The loudspeaker shall have a nominal impedance of 4 Ohms.

Polar Plots

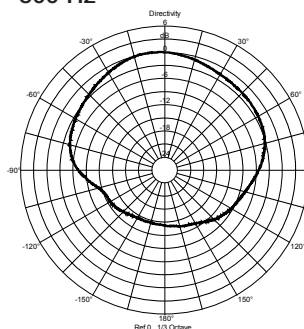
125 Hz



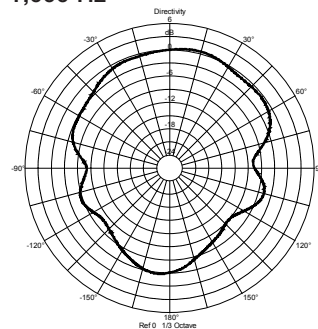
250 Hz



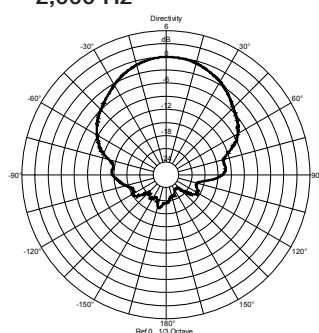
500 Hz



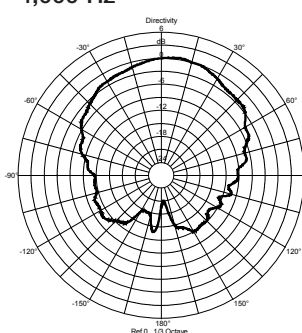
1,000 Hz



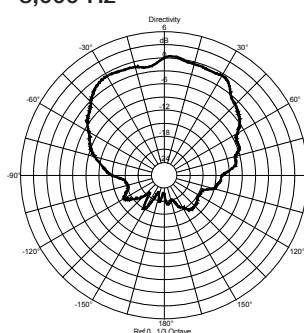
2,000 Hz



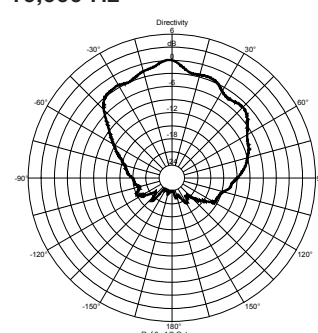
4,000 Hz



8,000 Hz

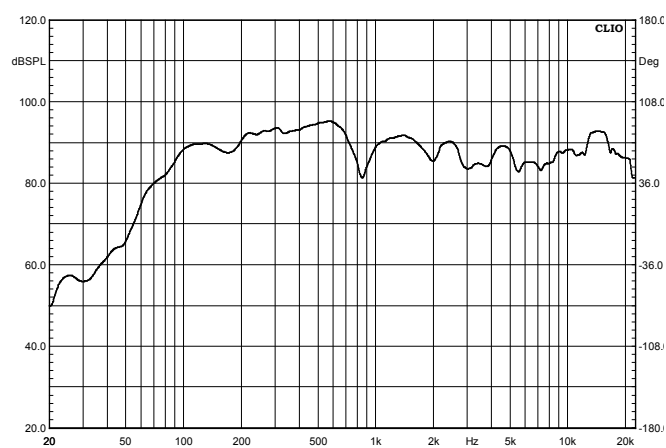


10,000 Hz



Graphs and Plots

Frequency Response



Impedance/Phase

