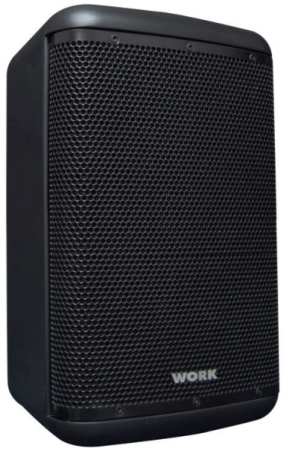
Outdoor IP54 Speaker — Athos 10



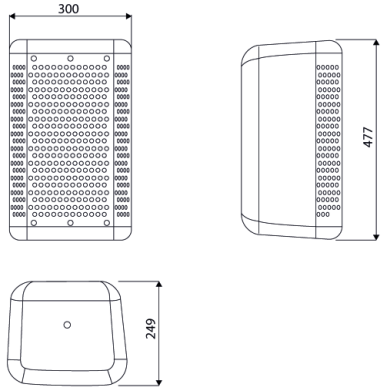
- Suited for outdoor applications, IP54
- 80^0 x 80^0 Coverage
- 400W Program
- Robust fiberglass enclosure
- Black or white finish
- Low and High impedance available

Technical Specifications

LF Transducer:	1 x 10" Diameter, 2.5" Voice coil speaker
HF Transducer:	1 x 1" Exit, 1" Voice coil, ring polymer diaphragm
Nominal Impedance:	8 ohm
LF Minimum Impedance	8.4 Ohm @ 200 Hz
RMS Power(1):	200W (40V rms)
Program Power(2) :	400W
Peak Power(3) :	800W (80V peak)
Transformer:	60W @ 100V, 30W @ 70V
Sensitivity (2.83v @ 1m):	98 dB SPL
Peak SPL(4):	127 dB SPL
Frequency Range(5):	80 Hz to 17kHz (-10dB) 90 Hz to 16.2kHz (-6dB)
Recommended High Pass Filter:	Butterworth 24dB/Oct, 45Hz
Horizontal Coverage (-6dB):	80^o
Vertical Coverage (-6dB):	80^o
IP Rating:	IP54
Enclosure:	Fiberglass
Grille:	Steel, water proof fabric backing
Connection:	Four pole stripped wire Low Z: Red(+) & Black(-). Yellow(NC) & Green (NC) High Z: Red & Green (Linked), Yellow(+) Black (-).
Color:	Black or white.
Rigging:	Wall mounting accessory: Athos10CR, for continuous +/-90^o sideways aiming (included).
Dimensions (HxWxD):	477x300x249 mm, 18.8x11.8x9.8 in
Net Weight:	12.5kg, 27.6 lb
Included accessories:	Athos10CR

(1) Based on a 2h power test run with pink noise, 6dB crest factor, IEC filtered
(2) Conventionally, 3dB higher than the RMS Power
(3) Corresponds to the crest factor for the test described in 1
(4) Calculated based on peak Power and sensitivity
(5) Free Field

Dimensions



All dimensions in mm

Overview

The Athos 10 is a passive two way, full range outdoor speaker which provides voice intelligibility and musical clarity for outdoor applications such as aquaparks, theme parks, shopping malls, stadiums or train stations where speakers have to be able to withstand adverse climatic conditions, such as rain, high or low temperatures.

It features one 10" diameter transducer, 2.5" voice coil, in a bass reflex enclosure. The high frequencies are reproduced by a 1" exit compression driver, 1" voice coil, wich features a ring polymer membrane, delivering a more natural sound than other traditional materials. The compression driver is coupled to a 80^o x 80^o horn, which provides a consistent coverage over the vocal range.

The fiberglass enclosure has been designed to withstand long term exposure to adverse environmental conditions and is available in black or white finish. The steel grille is internally covered with a protective water repellent fabric which prevents water and dust from damaging the transducers, featuring thereby an IP 54 protection rating. The Athos10CR wall mounting accessory is included, allowing for the Athos 10 to be aimed up to +/- 90^o sideways.

The system also includes 1m of four poles electrical connection cable, which enters the enclosure through a cable gland preventing thereby water, dust or moisture from damaging the transducers.

The four stripped wires cable allow for low and high impedance connections of the Athos 10, which houses a high quality 60Wrms@100V line transformer (30Wrms@70V) that makes it suitable for installations where long cables have to be deployed.

Tuning presets to enhance the frequency balance are available in our website.

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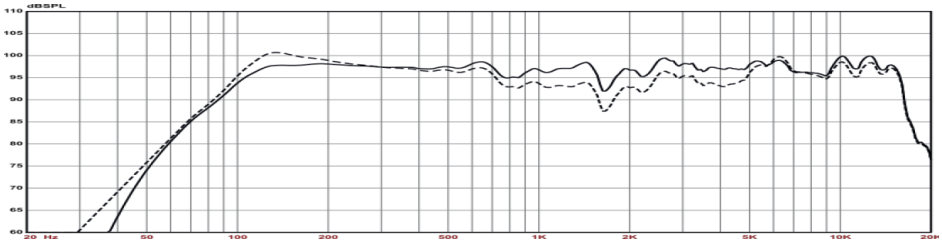
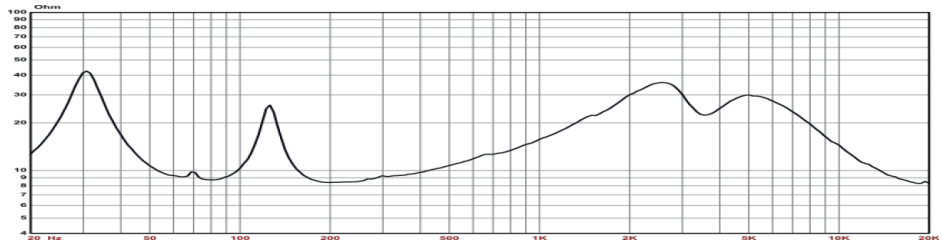
Frequency Response

On axis frequency response of ATHOS 10 driven by a swept sine wave signal at an input level of 2.83v. Measured in an anechoic chamber at 3m, SPL scaled down to 1m. In order to provide a more detailed frequency response curve only a 1/6th octave smoothing has been applied. Black Dashed: No EQ. Black Solid: With recommended preset "ATHOS10_F1V1". Preset "ATHOS10_Sh+3dBV1" (not shown) enhances the high frequencies by 3dB.

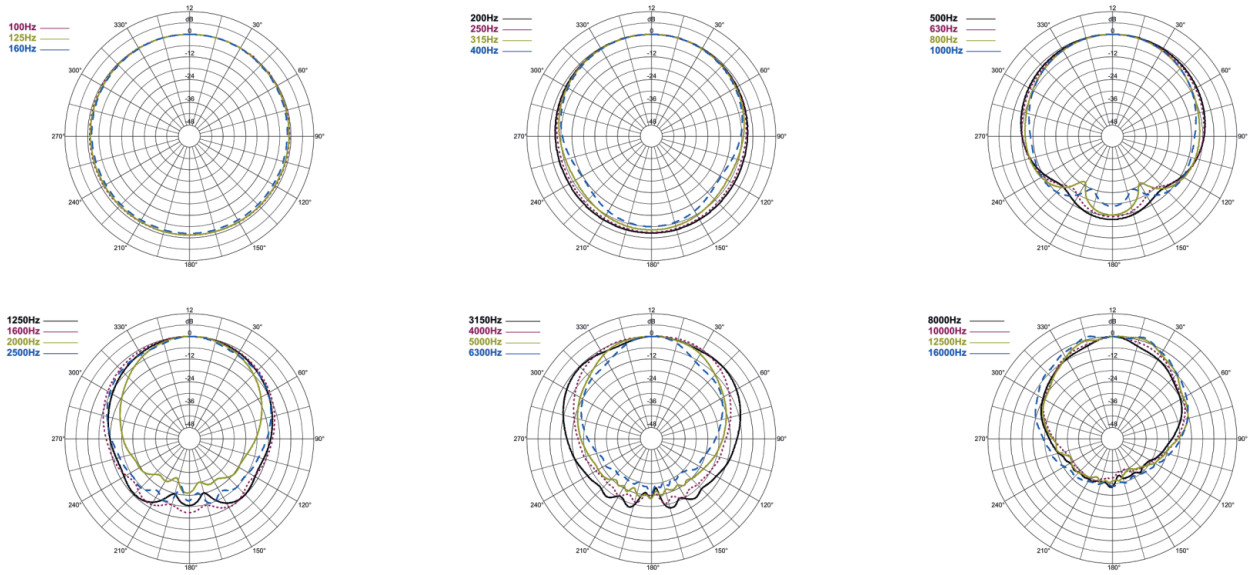


Impedance

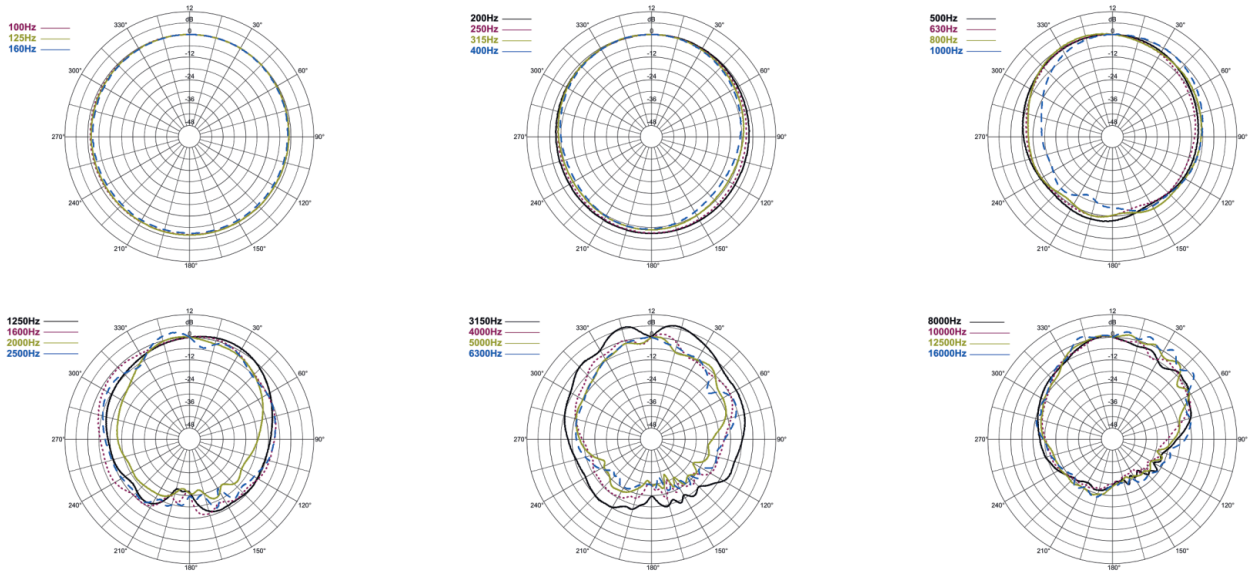
Impedance curve of one Athos 8 unit measured with a stepped sinusoidal signal. Frequency resolution is 1/24th octave. In order to provide better magnitude resolution at lower impedance values a logarithmic vertical scale has been used.



Horizontal 1/3 Octave Polar Response



Vertical 1/3 Octave Polar Response (Left/Top Right/Bottom)



Avda Saler, 14. Polígono Industrial L'Alteró. 46460 Silla, Valencia (Spain). http://www.workpro.es Tel: +34 961 216 301