

Spherica Omnidirectional sound source with integrated electronics

Kit S103AC.DC

• **Specification complying with International Standards:**

ISO 16283/ISO 140/ISO 3382/ISO 354 DIN 52210/ASTM E2235/ ASTM E336/ASTM E90

- Measurement in room of the apparent sound insulation of dividing elements between rooms according to D.P.C.M. 05-12-1997.
- Measurement of reverberation time using interrupted noise according to ISO 354.
- Measurement of impulse response according to ISO 3382.
- Omnidirectionality according to ISO 140



Electronic onboard



Dimensions:

Diameter 26 cm (10.2 inches)

Total weight: 5 kg (11 lb)
(including electronics on board)

SL 103AC.DC Active Spherical loudspeaker

Continuous sound power output 119 dB re 1pW.

- **Class D amplifier** 150 W RMS (300 watts peak);
- **Generator**
- **Auxiliary input** for external generator

Power supply 230 Vac (115 Volt on request)

Or Battery pack BPL100

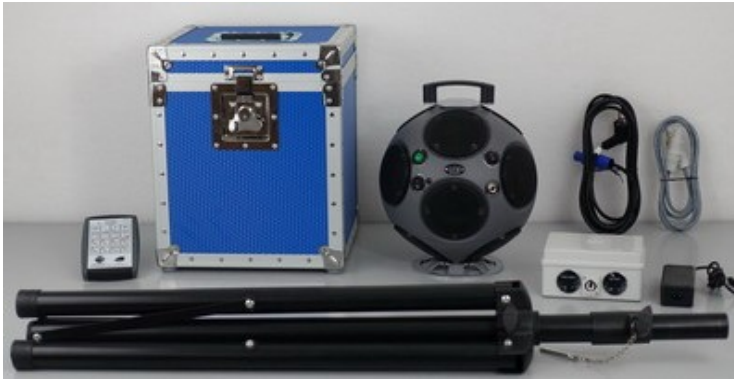
Inside the spherical source:

- **12 loudspeakers**- neodymium magnets- (80 mm (3 inch)
- **Class D amplifier** 150 W RMS (300 watts peak); very low heat dissipation.
- **Noise generator** - **Remote control receiver**
- **Micro controller** to linearise and extend the frequency response from 50 Hz–20 kHz
- **Auxiliary input** for external generator

Electronic onboard



Accessories included:



The kit 103AC.DC all options' includes:

SL103AC-DC Active Spherical Loudspeaker
 RC103 Multi-function Rem. Control:
 TR300 Tripod: height 100/175
 FC100 Flight case
 BPL100 Battery
 BC100 Battery charger
 Ac Cable
 Dc Cable

Remote control

16 keys for total control



Noise generator :

- * **White noise:** Pseudocasual
- * **Pinck noise:** Pseudocasual
- * **Fast white noise:** Alternative to the previous (greater precision)
- * **Fast pinck noise:** Alternative to the previous (greater precision)
- * **Sine sweep:** (exponential) 20 seconds 50- 20,000 Hz
- * **Impulsive noise:** It reproduces a noise similar to a balloon Bursting, a gunshot. or 2 wooden boards banging.



NOTE: The sine sweep provides a pressure level
 9 – 10 dB higher than that provided by the pink noise

BC100 Charger - BPL 100 Lithium batteries



Voltage: +26V / 0 / -26 - 3.3 A

Dimensions mm H 75 - W 160- D 120

Weight 0.9 kg (2 Lb)

Autonomy: over 1 hour at max power ;
 2 hours with pink noise equalised

Voltmeters for charge control

Certified UN 38.3 / IEC 62133



Aluminum flight case

For spherical source with pocket
 for remote control and cables.

External dimensions
 310x310x370mm
 (14½ x 14½ x 15¼ inch)

Weight: 5 kg (11 lb)

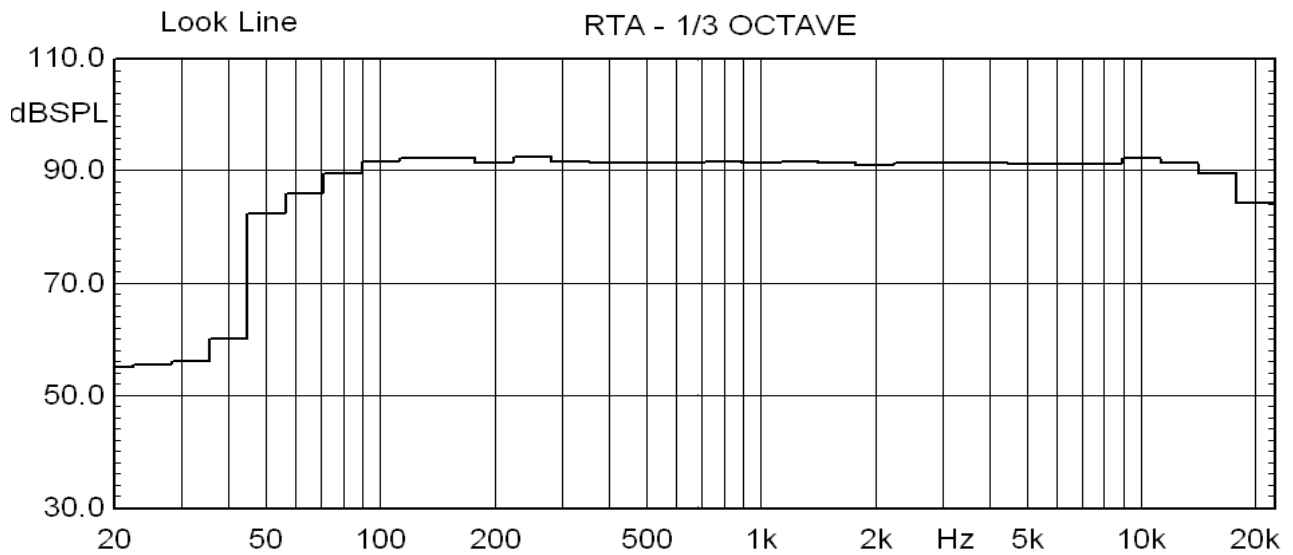
Complete with:

- **Cable**
- ISO conformance certificate
- User instructions
- EMC & CE conformance certificate
- 2 year warranty (1 year for battery)

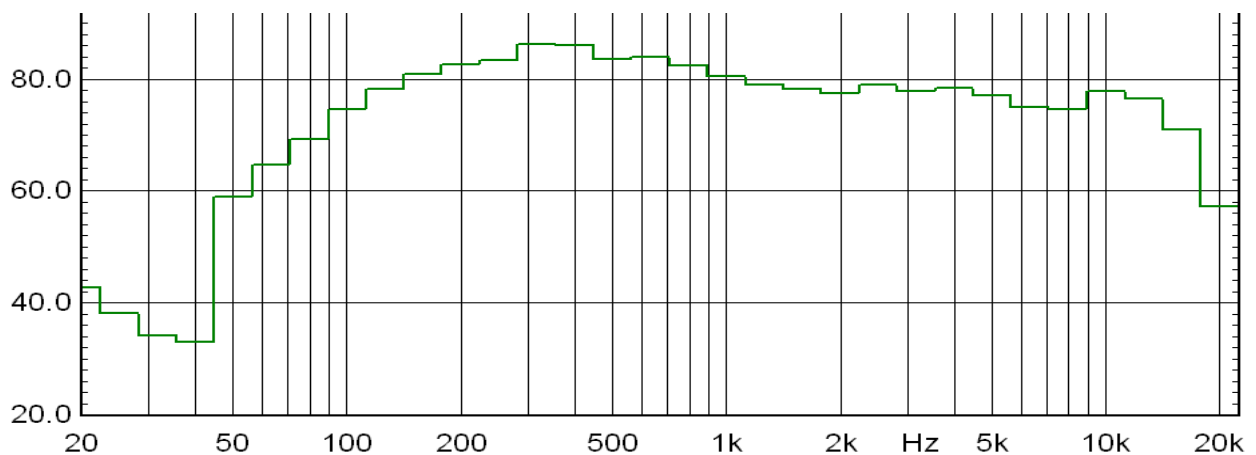


Tripod: height
 100/175

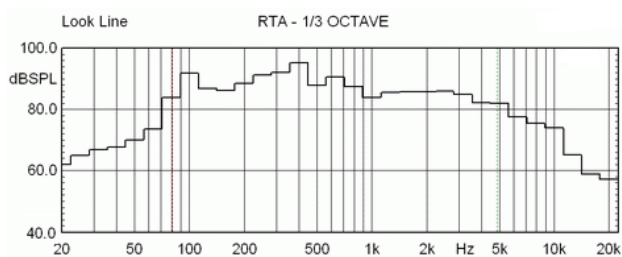
Frequency response in free field (average) LINEAR setting



Frequency response in free field (average) Max level setting



Impulsive noise:



It replaces (with greater precision and practicality)



the clapper, the gunshot or the bursting balloon

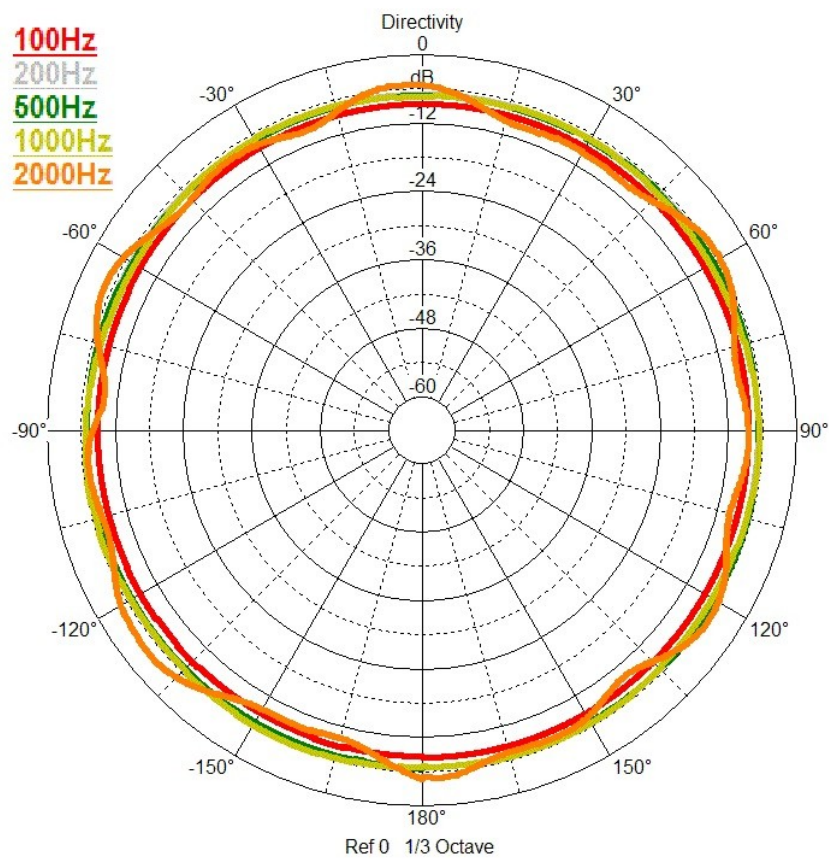
(Schroeder) Very fast measurement of reverberation time

Frequency response 80-5.000 Hz

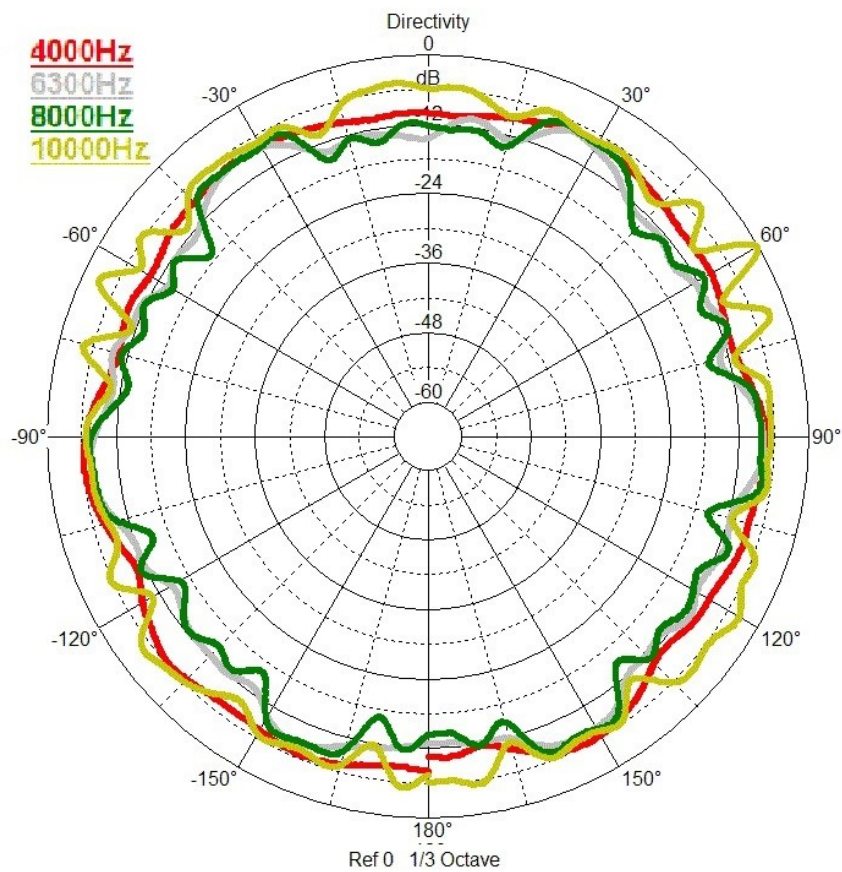
All 1/3 octave bands between 83 and 98 dB

(domestic room with mick 3 metres from source)

Polar plot of Spherical source S103AC DC (and S103AC)



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