

**Spherica Omnidirectional sound source with integrated electronics**

**Kit S103AC**

• **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



**SL 103AC. Active Spherical loudspeaker**

**Power supply 230 Vac (115 Volt on request)**

**Continuous sound power output 119 dB re 1pW.**

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

**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



**Dimensions:** Diameter 26 cm ( 10.2 inches)

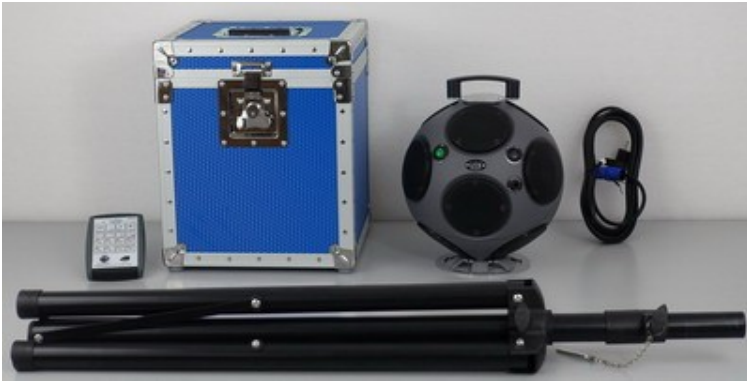
**Total weight:** 5 kg ( 11 lb)  
(including electronics on board)



**Electronic onboard**



## Accessories included:



### The kit 103AC all options' includes:

SL103AC Active Spherical Loudspeaker

RC103 Multi-function Rem. Control:

TR300 Tripod: height 100/175

FC100 Flight case

Ac 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

### Aluminum flight case

with pocket for remote control and cables.

External dimensions

310x310x370mm (14½ x 14½ x 15¼ inch)

Weight: 5 kg ( 11 lb)



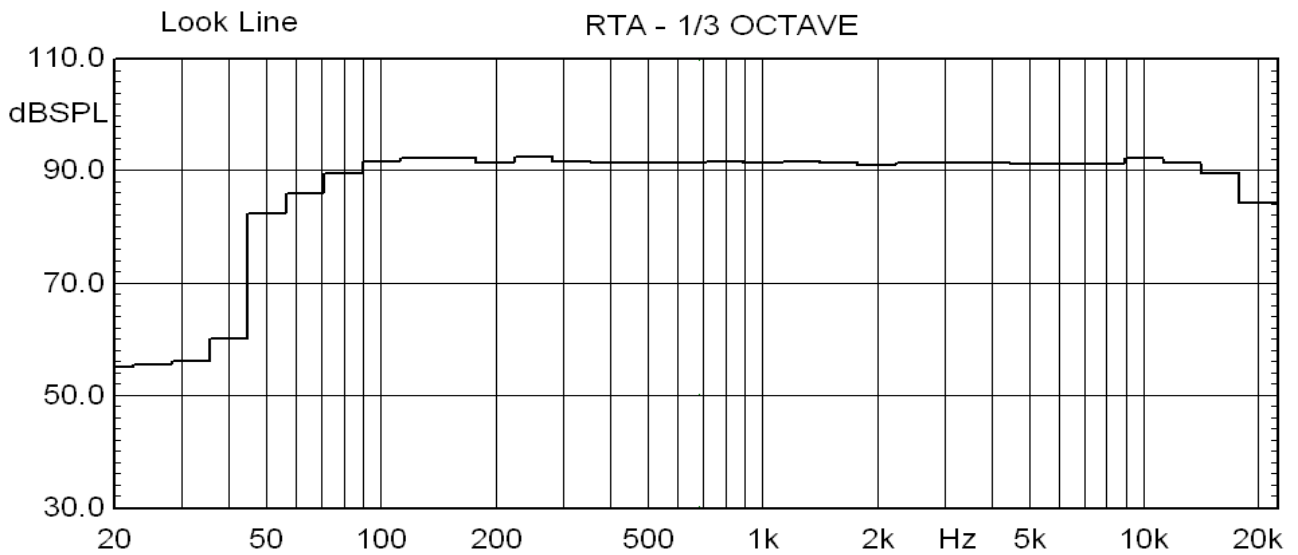
### Complete with:

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

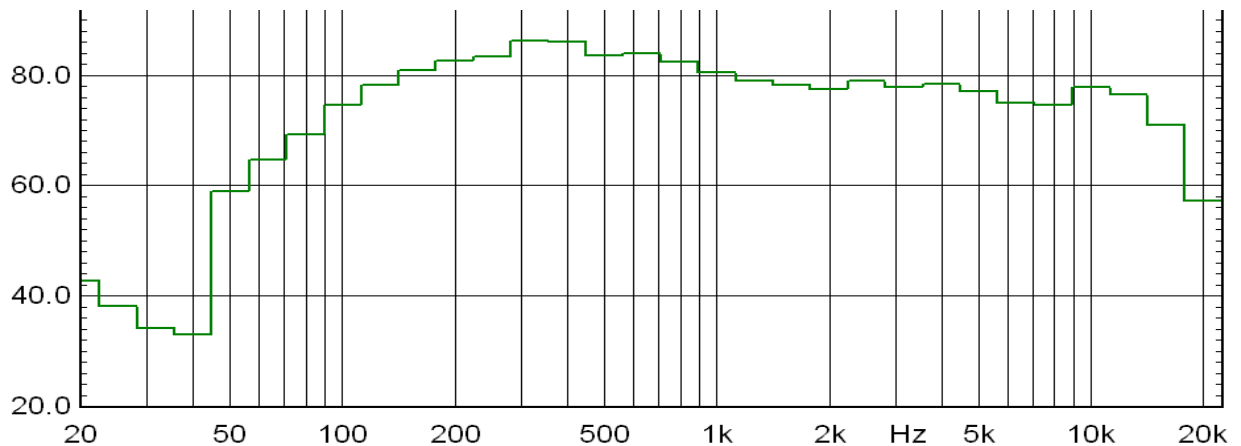


Tripod:  
height  
100/175

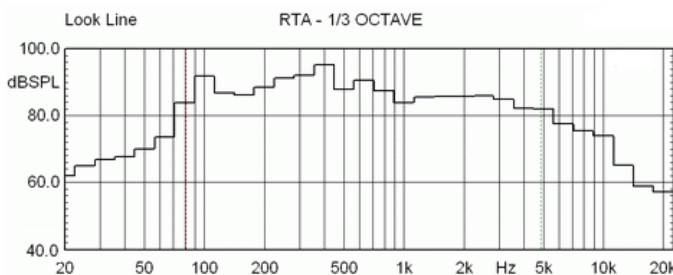
Frequency response in free field (average) LINEAR setting



Frequency response in free field (average) Max level setting



### Impulsive noise:



Frequency response 80-5.000 Hz  
All 1/3 octave bands between 83 and 98 dB  
(domestic room with mick 3 metres from source)

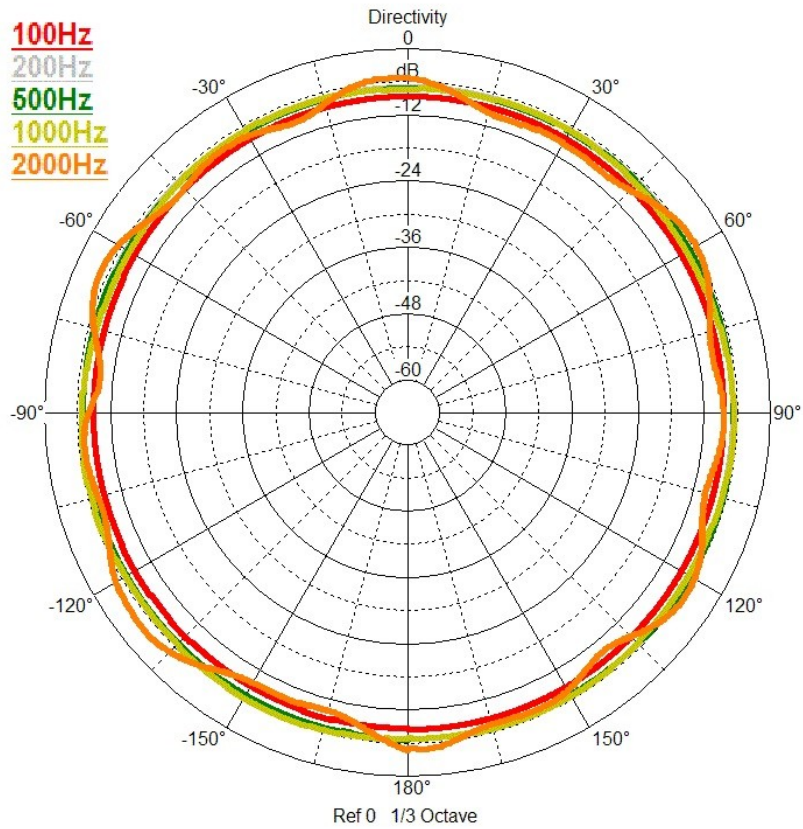
It replaces (with greater precision and practicality)



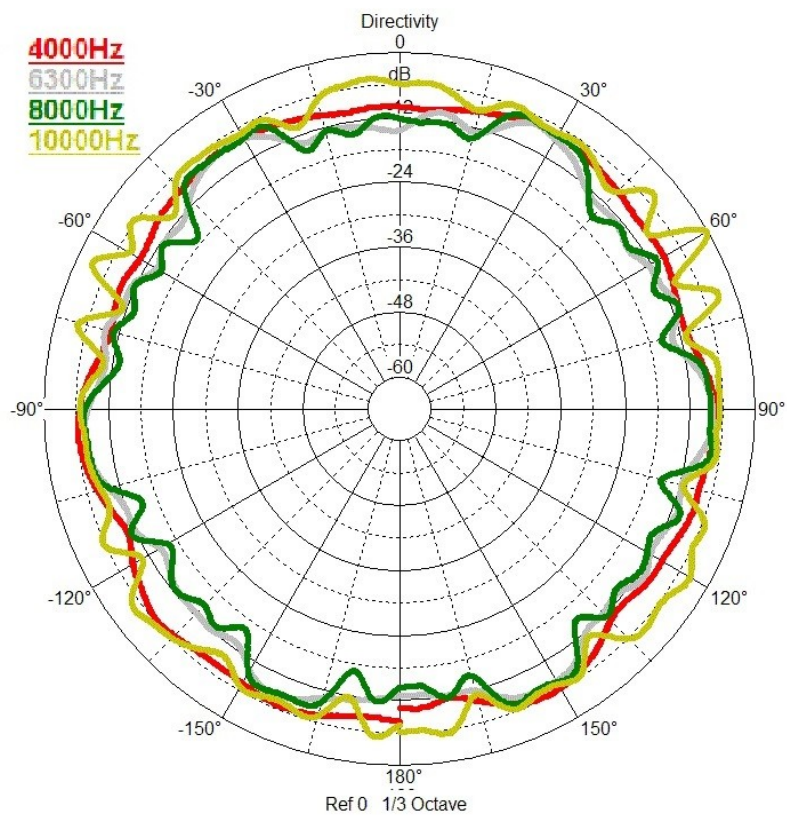
the clapper, the gunshot or the bursting balloon

(Schroeder) Very fast measurement of  
reverberation time

# Polar plot of Spherical source S103 AC ( and 103AC DC)



File:



File: