

MODEL BAS003

DIRECTIONAL SOUND SOURCE

- Used for ISO 140-3, ASTM E90, ISO 140-5, ASTM E966 compliant measurements
- High sound power output level
- Insertion loss of noise barriers
- Available lightweight & compact amplifier (BAS002E/U)
- Shipping case standard

TYPICAL APPLICATIONS

- Architectural acoustics: In-situ façade measurements
- Building acoustics measurements
- Sound insulation
- Evaluation of the acoustics indexes for the transmissions loss façade elements

BUILDING ACOUSTICS MEASUREMENTS

The BAS003 Directional Sound Source is designed to generate homogeneous sound fields using random noise in compliance with the following standards: Building acoustics (insertion loss, acoustic absorption area, etc: ISO 140-3, ASTM E90, ISO 140-5, ASTM E966). The BAS003 is typically used to generate a noise in a free-field for the evaluation of the transmission loss index of a façade. The available high-efficiency power amplifier, BAS002, is light and can be remotely controlled for easy use in the field. The included carrying and shipping case, Model CCS044, is designed to provide dependable protection for the BAS003 directional speaker in demanding conditions for many years.

SPECIFICATIONS

Performance

Acoustic

Sound Power	113 dB re 1 pW (not-equalized) 116 dB re pW (equalized 50 Hz to 5 kHz)
Sound Pressure Level	95 dB(Z) at 10 m
Operating Range	50 –12.5 kHz
THD	0.1%
Amplitude Linearity	±1 dB from 50 Hz to 5 kHz
Directivity	20° at -3 dB

Compliance

Acoustic	LAB – airborne: ISO 140-3, ASTM E90
	FIELD – indoor/outdoor: ISO 140-5, ASTM E966
Electrical, EMC & Safety	2002/95, 2002/96 and 2003/108/EC Directive
	2004/108/EC Directive
	2002/96/EC WEEE (RAEE) Electronic Waste Disposal
	2002/95/EC ROHS

Physical

Weight	7.5 kg (16.5 lb) speaker only
	16 kg (35 lb) speaker, case, cable

Carrying Case (CCS044)

Dimensions (H x W x D)	15.25 x 14.5 x 14.5 in (390 x 370 x 370 cm)
------------------------	--

Weight	17 lb (7.7 kg)
--------	----------------

Speak-on Cable

Length	32.8 ft (10 m)
--------	----------------

Weight	1.7 lb (0.7 kg)
--------	-----------------

Supplied Accessories

Flight Case for Directional Source

Technical Manual & User's Guide

Signal Cable (speak-on to speak-on), 32.8 ft (10 m)

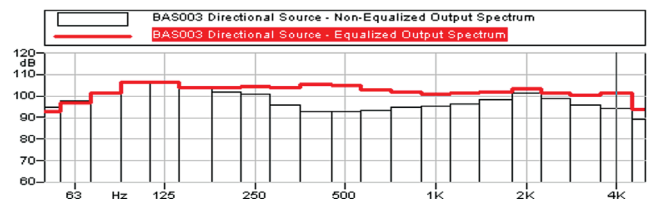
Optional Accessories

TRP023	Heavy Duty Loudspeaker Tripod
BAS002E/U	Lightweight Power Amplifier
BAS001	Omnidirectional Speaker



BAS003

Model BAS003 Directional Sound Source



Equalized Output Power (dB)



Optional Accessories

Heavy Duty Loudspeaker Tripod Model TRP023 (left),
Omnidirectional Speaker Model BAS001 (top), Lightweight Power
Amplifier Model BAS002E/U (right)