

ES 1002 - Column PA system



ES1002 comes with 1 subwoofer and 1 column top, both powered by a class D DIGIPRO G3 amplifier delivering 1800 W peak.

The top satellite is equipped with 8x4" mid-woofers, whose alignment allows an asymmetrical vertical coverage, avoiding any useless dispersion of the sound above the audience. Moreover, each mid-range woofer is provided with a newly designed phase-plug able to widen the horizontal coverage while guaranteeing a perfect intelligibility of the vocal range from every listening position.

The sub encompasses 2X12" woofers in bass-reflex configuration, the amp module and the control panel, whose inclined design improves usability. I/O section allows to connect up to 2 INPUTS (XLR mono and RCA stereo with independent volume controls) and provides a balanced link out to feed a second system or a stage monitor.

A rotary with 8 preset EQ helps users to perfectly tune the system, adapting it to different environments and uses (playback, live music, speech etc.).

The enclosures of both top and sub are made of plywood, coated with a durable scratch-resistant finish, which makes ES1002 truly road-ready.

FEATURES

- **BI-AMPED 1800 W ACTIVE PA SYSTEM**
- **IMPROVED POWER/SIZE RATIO**
- **EXTRA-PRECISE COVERAGE DISPERSION (HORIZONTAL AND VERTICAL)**
- **NEW PHASE-PLUG DESIGN FOR PERFECT INTELLIGIBILITY**
- **ENHANCED USABILITY FOR CONTROL PANEL**
- **8 EQ PRESETS**

dBTechnologies

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Technical Data

Speaker Type: Bi-amped Mono system
Usable Bandwidth [-10 dB]: 43 - 20000 Hz
Frequency Response [-3 dB]: 56 - 18000 Hz
Max SPL (1 m): 130,7 dB
MF-HF mid-woofer: 8 x 4"
MF-HF voice coil: 25 mm
MF-HF type: Neodymium
LF: 2 x 12" (subwoofer)
LF Voice Coil: 64 mm
Crossover frequency: 160 Hz (24 dB/oct)
Horizontal dispersion: 97°
Vertical dispersion: 60° (asymmetrical: +20°/-40°)

Amplifier

Amp Technology: DIGIPRO® G3
Amp Class: Class-D
RMS Power: 900 W

Operating voltage:

220-240V~ (50-60 Hz) or 100-120V~ (50-60 Hz)

Processor and user interface

Controller: 24 bit - 48 kHz
Limiters: Peak, Thermal, RMS
Controls: DSP rotary encoder, volume controls, MIC/LINE switch

Input / Output

Mains connections: VDE
Signal Input: (Balanced/Unbalanced) 1 x Combo IN (MIC/LINE) 1 x RCA (stereo)
Signal Out: SPEAKON out to ES1002 TOP, (Balanced) 1x XLR OUT (LINK)

Mechanics

Housing: Wooden boxes
Grille: Full metal grille
Pole Mount: Yes, 36 mm (M20 threaded hole)
Handles: 3 (subwoofer, 2 on sides 1 on top)
Width [sub/ top]: 360 mm (14.17 in) / 110 mm (4.33 in)
Height [sub/ top]: 680 mm (26.77 in) / 905 mm (35.63 in)
Depth [sub/ top]: 545 mm (21.46 in) / 160 mm (6.30 in)
Weight [sub/ top]: 29.3 kg (64.59 lbs) / 5.8 kg (12.79 lbs)



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complete User Manual

POWER SUPPLY SPECIFICATIONS (POWER ABSORPTION)

Draw at 1/8 of full power in average use conditions (*): 1.4 A (220-240V~) - 2.5 A (100-120V~)
Draw at 1/3 of full power in maximum use conditions (**): 3 A (220-240V~) - 4.8 A (100-120V~)
Power absorption with speaker turned on without signal (idle): 19 W

* INSTALLER NOTES: The values refer to 1/8 of full power, in average operating conditions (music program with infrequent or no clipping). It is recommended to consider them the minimum sizing values for any type of configuration.

** INSTALLER NOTES: The values refer to 1/3 of full power, in heavy operating conditions (music program with frequent clipping or activation of the limiter). We recommend sizing according to these values in case of professional installations and tours.

Download the complete user manual from the site:

www.dbtechnologies.com/EN/Downloads.aspx

EMI CLASSIFICATION

According to the standards EN 55103 this equipment is designed and suitable to operate in E3 (or lower E2, E1) Electromagnetic environments.
FCC CLASS B STATEMENT ACCORDING TO TITLE 47, PART 15, SUBPART B, §15.105

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

WARNING: Make sure that the loudspeaker is securely installed in a stable position to avoid any injuries or damages to persons or properties. For safety reasons do not place one loudspeaker on top of another without proper fastening systems. Before using the system check all the components for damages, deformations, missing or damaged parts that may compromise safety during installation. If you use the loudspeakers outdoor avoid spots exposed to bad weather conditions. Contact dB Technologies for accessories to be used with speakers. dBTechnologies will not accept any responsibility for damages caused by inappropriate accessories or additional devices.

Features, specification and appearance of products are subject to change without notice.

dBTechnologies reserves the right to make changes or improvements in design or manufacturing without assuming any obligation to change or improve products previously manufactured.