dBTechnologies

Technical Data

Speaker Type: 3-amped Stereo System with two full-range tops and one subwoofer

Acoustical data

Frequency Response [-10dB]: 37 - 15.000 Hz
Max SPL: 121 dB
MF - HF: 8x 3"
Type MF - HF: Neodymium
LF: 12"
Directivity: 95x65˚

Amplifier

Amp Technology: Digipro® G3
Amp Class: Class-D
Power Amp: 1000 W
Power Supply: SMPS with PSU Auto-range
Power Connection: VDE socket
Cooling: Convection
Controls: 1x OLED Display with rotary encoder w/switch 1x Audio signal monitoring LED 1x USB port (service data)

Processor

Controller: DSP 24 Bit/48 kHz
System Presets: Factory presets + User defined
Limiter: Dual Active, Peak, RMS, Thermal
Crossover Frequency LF-HF: 206 Hz

Input

Mic/Instrument Channel: 1x Combo (XLR/Jack) balanced/unbalanced input
Line Channels: 2x Combo (XLR/Jack) balanced/unbalanced inputs
Media Channel: 1x Bluetooth® built-in receiver
Mix Output: 1x XLR balanced output

Mechanics

Housing (Subwoofer): 15mm Black Painted Birch Plywood
Housing (Tops): Polypropylene PP
Handles: 2x lateral side (Subwoofer)
Width (Top): 95 mm (3.74 in)
Height (Top): 360 mm (13.98 in)
Depth (Top): 137 mm (5.39 in)
Width (Subwoofer): 465 mm (18.3 in)
Height (Subwoofer): 400 mm (15.7 in)
Depth (Subwoofer): 430 mm (16.9 in)
Weight (Top): 1.9Kg – 4.19lbs.
Weight (Subwoofer): 16.4Kg – 36.16lbs.

EMI CLASSIFICATION
According to the standards EN 55103 this equipment is designed and suitable to operate in E3 (or lower E2, E1) Electromagnetic environments.

Download the complete user manual on:
www.dbtechnologies/Downloads.aspx

Scan with your QR Reader App to download the complete User Manual

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es entertainment system 503
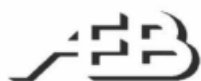
Quick start user manual
Section 1

The warnings in this manual must be observed together with the "User Manual - Section 2".

Le avvertenze nel presente manuale devono essere osservate congiuntamente al "MANUALE D'USO - Sezione2".

Die Warnungen in diesem Handbuch müssen in Verbindung mit der "BEDIENUNGSANLEITUNG - Abschnitt 2" beobachtet werden".

Les avertissements spécifiés dans ce manuel doivent être respectés ainsi que les "CARACTERISTIQUES TECHNIQUES -Section 2"

Thank you for choosing a dB Technologies Product!

ES503 is a portable 3-amped stereo sound system composed by two passive tops and one 12" subwoofer. The sub hosts a 1000W power amp module with auto-range PSU and a 3-channels mixer with Bluetooth® connection. A powerful DSP – controlled through an advanced user-interface with an OLED display – manages both the coverage of the entire system and all functions of the mixer, making the ES503 a real gem in terms of sound performance and versatility.

1) Unpacking:

The box contains:
N°1 ES 503 Top A Satellite
N°1 ES 503 Top B Satellite
N°1 ES 503 Sub
N°1 Speakon Cable
N°1 Power Cable
N°1 Telescopic M20 Pole

2) Easy Assembly:

The 3-piece system is light enough to be carried in a single trip and can be configured in 3 different modes:

. Mono Mode   .Stereo Mode   Double Column mode

Option 1: Mono column mode, 1x stand pole
The two satellites are connected top-on-top and are placed on the subwoofer through the supplied D25mm pole. The system is used in mono mode so all inputs are routed to both outputs in mono.

Option 2: Stereo mode, 2x tripods or 1x stand pole and 1x tripod
This implies the use of two tripods and two optional Speakon-Speakon cables to connect the subwoofer to the tops placed on tripods. The system is in stereo: The Mic/Instrument input is assigned to both channels; CH1/LINE L (and Bluetooth® L) is assigned to Output L; CH2/LINE R (and Bluetooth® R) is assigned to Output R. The user can adjust pan, volumes and EQ and can also set up a second mix with different levels for the AUX / MIX output.
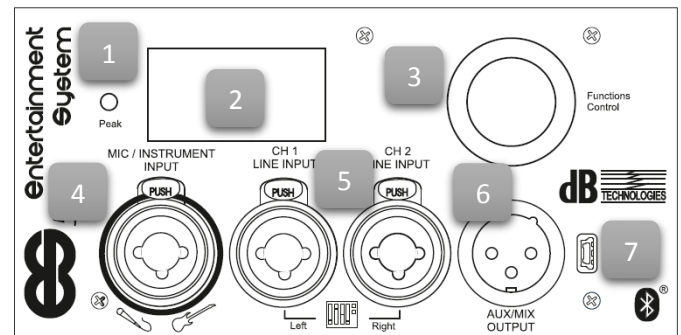
Option 3: DOUBLE COLUMN mode, 2x ES 503 in single column mode
Two ES 503 systems in single column mode: one system becomes the master for the other, feeding the signal thanks to the integrated balanced output channel.
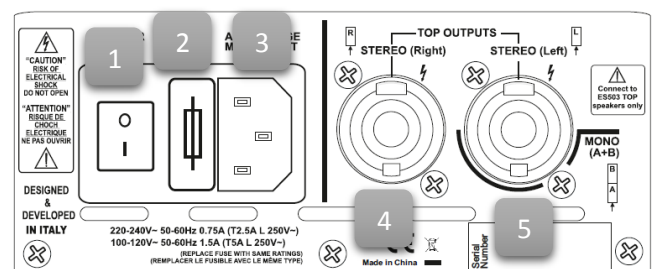
In this way, both system are driven by the master's on-board mixer and any setup is guided through the master's OLED display.

3) Connections and Oled Display

The ES503 Subwoofers are equipped with an intuitive OLED display.

1 – Peak led.
2 – OLED Display.
3 – Rotary Encoder with switch.
4 – Mic/Instrument input.
5 – CH1/2 Line input.
6 – Aux/Mix output.
7 – Usb port (only for service).

1 On/Off Switch.
2 Mains Fuse.
3 VDE Mains Input.
4 Right speakon output – To TopB in Stereo Mode.
5 Left speakon output - To TopA in mono and double column mode.

Use only 503 cables!
In Mono mode and Double Column mode connect ONLY the Left/Mono speakon output to the TOP A

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4) Ready in less than a minute

The internal DSP provides an easy setup and routing of all the inputs and allows to configure quickly the ES503

The ES503 is managed through a complete channel strips that allows the user to control channel parameters and choose the output routing.

Set up instructions:

Push the rotary encoder over the Menu Item and then on System Settings. Here an easy wizard helps you to setup the ES503 System as you desire. Mono, stereo or double column mode.

 Pushing on the next icon, the wizard will indicate how to manage the MIC/Inst input, the line inputs in mono or stereo setup .

Besides, it's possible to assign the auxiliary output as Monitor (enabling the anti-feedback notch filter in Advanced Setup) or Auxiliary output. In Double Column mode, this output will be dedicated to send the Left or Right signal to the other ES503 System.

 Holding the rotary encoder the ES503 will be back at the home Menu.

Holding the rotary in the Home menu the EASY MIXER will appear, so that the user can mix the inputs, setup outputs' volume, adjust the main or sub's volume.

Follow the wizard's instruction to get your ES503 ready in less than a minute.

5) Bluetooth

The ES503 Entertainment System is equipped with a Bluetooth receiver. To enable the bluetooth go to Menu→Bluetooth Settings→ON
The audio streaming will be enabled over the channels 1 and 2 (Line Inputs).

6) Coverage

The Internal speakers position are designed to improve the vertical coverage from the first row to the further seats of the venue. The specially designed phase plugs allow a wide horizontal coverage as well.

7) Advanced Settings submenu:

In the Advanced Setting menu you can set the subwoofer level and the Aux notch anti-feedback filter:
Go to: Menu→Advanced Setting.

8) Eq Preset

The ES503 DSP provides 6 EQ presets and 1 Custom storable user eq. Go to Menu→DSP Preset.

ES503: a space-saving, user-friendly, powerful system to enjoy your music anytime, anywhere.

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