

eMOTUS5P / eMOTUS5PB

SURFACE MOUNT CABINETS

Powered Loudspeakers - Stereo kit



USER MANUAL

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1. IMPORTANT REMARK



WARNING: SHOCK HAZARD - DO NOT OPEN

AVIS: RISQUE DE CHOC ÉLECTRIQUE - NE PAS OUVRIR



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING (If applicable): The terminals marked with symbol of “” may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the use of ready-made leads or cords.

WARNING: To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

WARNING: An apparatus with Class I construction shall be connected to a mains socket-outlet with a protective earthing connection.

2. IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug the apparatus during lightening sorts or when unused for long periods of time.
13. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. Disconnecting from mains: Switching off the POWER switch all the functions and light indicators of the amplifier will be stopped, but fully disconnecting the device from mains is done unplugging the power cord from the mains input socket. For this reason, it always shall remain readily operable.
15. Equipment is connected to a socket-outlet with earthing connection by means of a power cord.
16. The marking information is located at the bottom of apparatus.
17. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



WARNING: This product must not be discarded, under any circumstance, as unsorted urban waste. Take to the nearest electrical and electronic waste treatment centre.

 **NEEC AUDIO BARCELONA, S.L.** accepts no liability for any damage that may be caused to people, animal or objects due to failure to comply with the warnings above.

3. IMPORTANT NOTE

Thank you for choosing our Ecler **eMOTUS5P / eMOTUS5PB Powered Loudspeakers - Stereo kit!**

It is **VERY IMPORTANT** to carefully read this manual and to fully understand its contents before any connection in order to maximize your use and get the best performance from this equipment.

To ensure optimal operation of this device, we strongly recommend that its maintenance be carried out by our authorised Technical Services.

All ECLER products are covered by warranty, please refer to www.ecler.com or the warranty card included with this product for the period of validity and conditions.

4. INTRODUCTION

The eMOTUS5P / eMOTUS5PB is a kit of loudspeakers including an active and a passive acoustic box. The eMOTUS5PB includes a wireless BT receiver, remote control and remote control volume port (0-10 VDC). Is a compact, professional stereo kit, easy to handle and at a very attractive price. Its fantastic performance and unique design ensure that it can easily be integrated into a wide range of multimedia applications: lecture halls, meeting rooms, outlets, etc. The eMOTUS5P is available in black and white. The eMOTUS5PB model is available in white.

5. KEY FEATURES

- Stereo 2-way loudspeaker stereo kit – powered loudspeaker + passive loudspeaker
- Full range: 5" woofer and 1" tweeter
- Integrated amplifier 2 x 25 WRMS (MASTER unit)
- Volume control and tone control (bass & treble) in the MASTER unit
- Euroblock balance stereo input on the MASTER UNIT
- Non-balanced RCA input on the MASTER UNIT
- Wireless BT stereo input (only on the eMOTUS5PB)
- Mono/Stereo switch
- Link between the MASTER and the SLAVE unit via Euroblock connectors.
- Integrated power supply source (MASTER unit)
- Selectable power voltage 115 V/230 V (MASTER unit)
- Auto standby function (automatic standby mode / energy saving without the need to turn the system on or off each day)
- Integrated Anti-Clip System
- LED activity display
- Reinforced ABS construction
- BT wireless connection, remote control port (0-10 VDC – RJ45 connector) and remote control (eMOTUS5PB)

- Ecler eMOTUSBT app (available for iOS and Android) that allows users to configure the Bluetooth PIN and Device ID (eMOTUS5PB only).
- eMOTUS5P is available in black (RAL 9005) and white (RAL 9003).
- eMOTUS5PB is available in white (RAL 9003).

6. POSITIONING AND FITTING

In the packing of the eMOTUS systems, you will find all you need to complete installation of the two units.

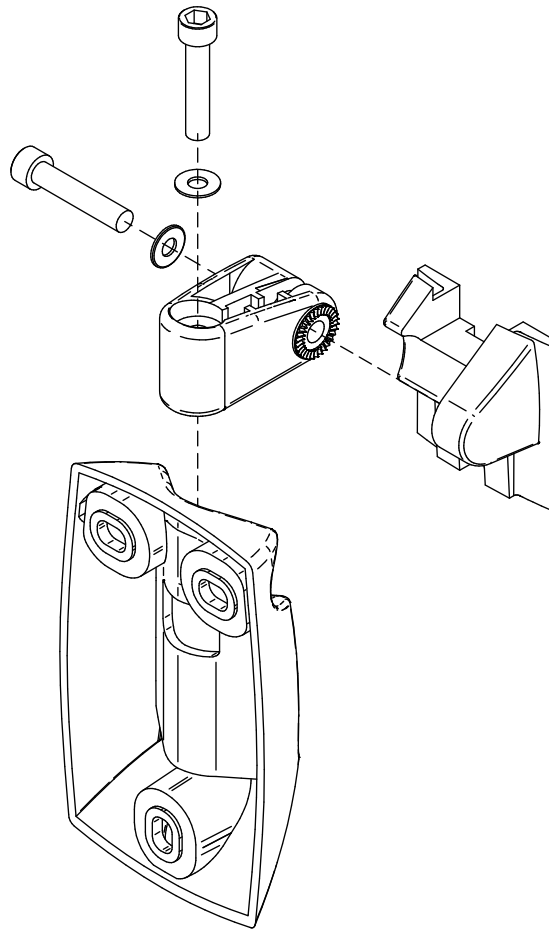
The following should be observed as general rules:

- Always install on solid, firm surfaces.
- For good sound reproduction, there should be no hindrance between the units and the audience.
- Adjust the levels of sound pressure to reproduction requirements. Despite its small size, the eMOTUS5P / eMOTUS5PB has a performance far higher than that of domestic loudspeakers.

Procedure for installing **on a surface**:

1. Make three 6 mm screw holes in the wall, aligned with the position of the holes in the bracket.
2. Insert three 6 mm wall plugs into the holes.
3. Fasten the safety line on the rear of the bracket.

5. Fit the bracket in place, after threading the line and loudspeaker wire through the square hole in the bracket. Secure the bracket to the wall:



6. Connect the power supply cables, signal input and link between the two units to the connectors on the rear part of the housing. Ensure correct polarity in the Euroblock terminals.
7. Place the acoustic box in its final position, sliding it vertically downwards so that the rear side of the rail slots into the bracket rail.
8. Secure the safety wire on the rear part of the acoustic box to ensure that it does not accidentally fall and cause any material and/or personal damage.
9. Orientate the box to achieve the required position on the vertical and horizontal axes. Tighten up the Allen screws on the bracket to fasten this position on both axes.

7. START UP

7.1. eMOTUS5P

To start up the system, turn on the MASTER (L) unit with the switch on the rear panel and adjust the volume and equalizer to the required settings.

You can select the audio source (balanced or non-balanced input) by pressing the rotating volume encoder.

7.2. eMOTUS5PB

To start up the system, turn on the MASTER (L) unit with the switch on the rear panel and adjust the volume and equalizer to the required settings. Pressing the rotating volume encoder, the unit will be muted.

You can select the audio source (balanced, non-balanced input or wireless connection) by pressing the rotating volume encoder or the relevant button on the remote control: BAL, UNBAL or BT.

7.2.1. Wireless connection

Press the **BT** key to select the wireless connection mode. For pairing the BT, the eMOTUS5PB is displayed on other devices as the eMOTUS5 (password:"0000"). Once paired with the emitting device, the eMOTUS5PB will act as a receiver/reproducer of the audio emitted by the former.

Note: To safeguard the system from any possible power surges in the electrical supply, there is a network fuse in the MASTER unit, located in a screw mount fuse holder in the rear panel. In the event of this blowing, disconnect the device, remove it from the wall bracket, unscrew the fuse holder, take out the fuse and replace it with another with identical characteristics. If the new fuse blows straight away, consult our Technical Department.

7.2.2 Configuring Bluetooth PIN and Device ID with the Ecler eMOTUSBT app (Only applies to the eMOTUS5PB model)

The Ecler eMOTUSBT app allows you to easily customize your device by changing the Bluetooth PIN and Device ID, enhancing both usability and security.

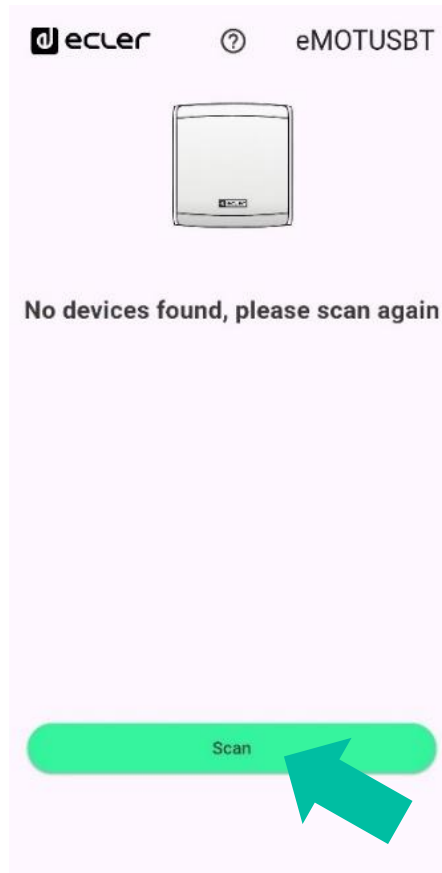
Available for iOS and Android.

Click the appropriate icon below to download the app free of charge from the official app store.



To enable BLE wireless connection mode and allow changes to the Bluetooth PIN or ID of the eMOTUS5PB device, follow the steps below:

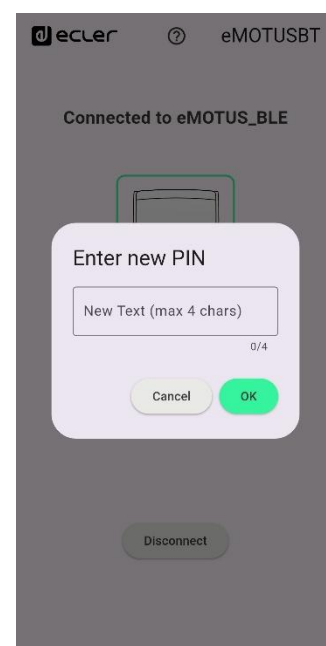
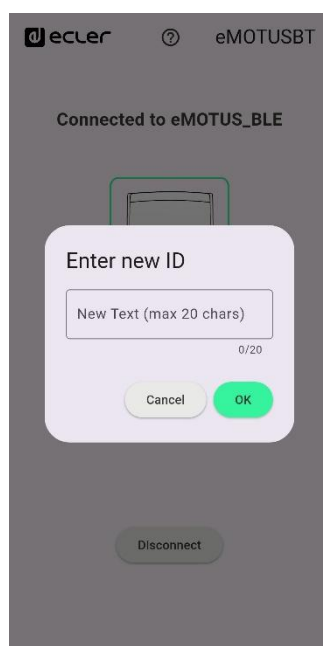
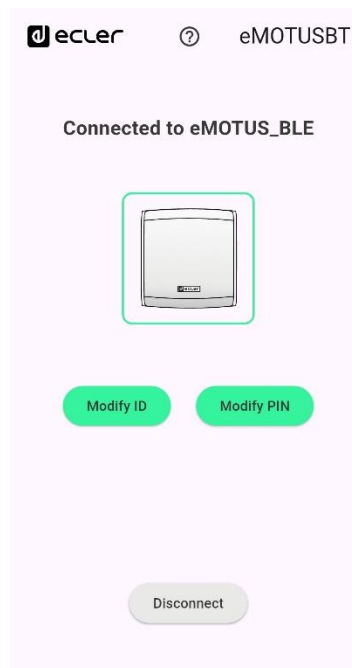
- 1 Ensure the unit is in Standby mode, with red LED steadily lit.
- 2 Press and hold the Volume button for 5 seconds until the blue LED begins to blink.
- 3 Open the Ecler eMOTUSBT app and tap the Scan button to locate your device. The device will appear in the list as eMOTUS5PB.



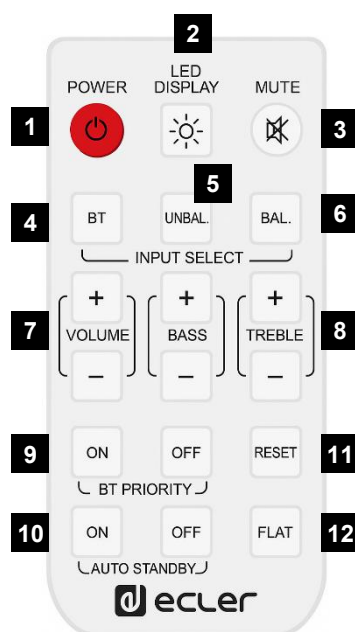
- 4 Tap the Connect button, then choose either Modify ID or Modify PIN to update one of them (uppercase, lowercase and numbers are accepted, with a maximum of 20 characters for ID and 4 characters for PIN).

Note:

- The PIN and ID cannot be modified simultaneously.
- After making a change, the unit will automatically restart, and the app will return to its home screen.
- To modify another parameter, repeat the entire process from the beginning.



7.2.3. Remote control (Only applies to the eMOTUS5PB model)



1. **Turn on:** on/off. The green LED display lights up when the unit is on. When off, no LED is displayed.
2. **LED display:** turn on/off the LEDs while the unit is operating. When restarting the unit, this function returns to its default value: LEDs on.
3. **MUTE.** The red LED blinks on and off when the unit is muted.
4. **BT:** wireless connection. The blue LED light turns on when there is a BT connection by pressing the BT key.
5. **UNBAL:** select the stereo unbalanced RCA input as the audio input source.
6. **BAL:** select the stereo balanced Euroblock input as the audio input source.
7. **Volume:** increase/decrease the volume in 1 step (range available in 0-36 steps). This only operates when the unit is on.
8. **Bass & Treble:** increases/decreases by 1 dB (range available of -7 to +7dB) in bass/treble.
9. **BT priority:** if priority is activated, whenever it detects a wireless connection available, this will take priority over the other audio inputs and will automatically switch over to this.
10. **Auto Standby:** keep pressed (for 2 secs.) to activate/deactivate the auto standby function. If this is activated, after 2`30" with no audio in the inputs and if the remote controlled is not used, the unit will switch to standby mode.
11. **Reset:** keep pressed (for 5 secs.) to reset the system to its default values: BT priority ON, volume = 30 bass; treble = 0.
12. **Flat:** keep pressed (for 5 secs.) to reset the system to its default equalizer values: bass = 0; treble = 0.

Note: Reset and Flat buttons only act if the default values have been changed

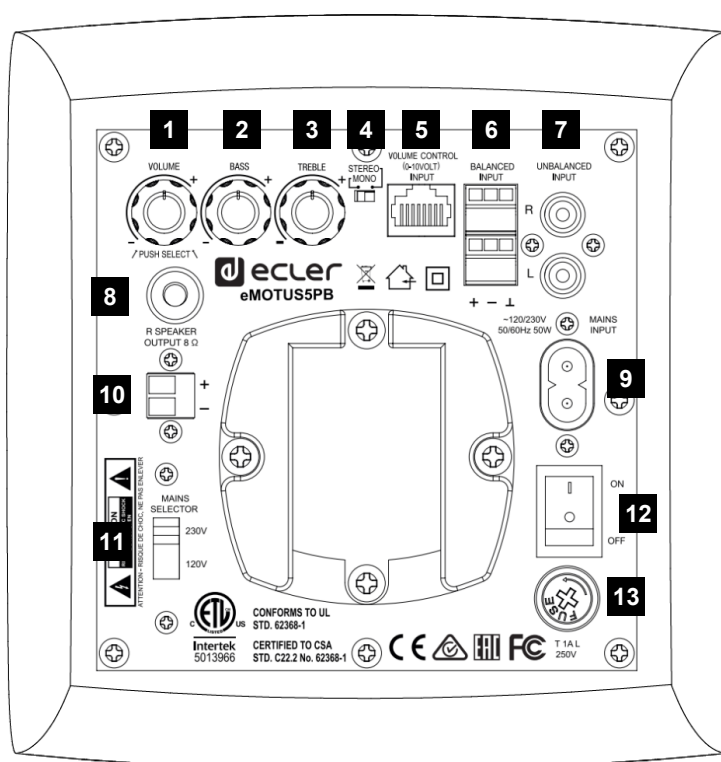
7.2.4. Remote port (Only applies to the eMOTUS5PB model)

REMOTE port: the RJ-45 REMOTE type connector makes it possible to connect from a type WPaVOL wall control panel (control 0-10 VDC) for adjusting the general output volume. The connection is made by a standard CAT5 cable between the WPaVOL wall panel and the REMOTE connector on the MASTER unit.

As there is an eMOTUS5PB kit along with a type WPa control and other types of control (rotating control on the rear panel, remote control or control via remote port), at all times, the latest adjustments made using one or another method will prevail. For instance, if the volume is adjusted using a WPaVOL wall panel connected to the REMOTE port, and then said parameters are altered using the control on the rear panel, the latest adjustment will prevail. In this case, when the position of the wall panel is altered again, the eMOTUS5PB kit will retake the values that this indicates, and so on.

Note: the green LED light will keep on whenever the unit is on. It will blink on and off when there is activity in the remote controls (remote control or 0-10VDC port).

8. REAR PANEL



1. Output volume control
2. Bass control
3. Treble control
4. Stereo-mono switch
5. Remote input RJ-45. (Only applies to the eMOTUS5PB model)
6. Balanced audio input - Euroblock connectors
7. Non-balanced audio input – RCA connectors
8. Attachment point for the safety cable
9. Socket base
10. Amplified output right channel R
11. Mains selector (115V / 230V)
12. Start up switch
13. Fuse holder

9. TECHNICAL SPECIFICATIONS

eMOTUS5P

System	
Effective frequency range ¹	85Hz – 20kHz
Coverage angle ²	120°x120° (HxV)
Power handling	25 W RMS / 100 W Peak
Sensitivity ³	77 dB (1W/1m)
Maximum SPL ⁴	91 dB continuous / 97 dB peak
Transducers	
Ways	2
Low frequency driver	5" woofer
High frequency driver	1 tweeter"
Nominal impedance	8Ω
Physical	
Enclosure material	ABS
Grill material	Aluminium
Mounting system	Cabinet
Operating temperature	Min: -20°C ; -4°F Max: 70°C ; 158°F
Operating humidity	<85% HR
Storage temperature	Min: -20°C ; -4°F Max: 70°C ; 158°F
Storage humidity	<90% HR
Included accessories	Wall bracket and security steel cable
Optional accessories	Ecler GROUNDY and CEILY brackets.
Finished colour	Available in black (RAL 9005) and white (RAL 9003).
Dimensions (WxHxD)	Not including brackets: 173 x 180 x 181mm / 6.81 x 7.09 x 7.13 in. Including brackets: 173 x 180 x 249 mm / 6.81 x 7.09 x 9.80 in.
Weight	4.2 kg / 9.26 lb 4.5 kg / 9.92 lb (including bracket)
Powered	
Power	2 x 25 W RMS / 100 W Peak
Audio inputs	2 analogue audio inputs (balanced-Euroblock and unbalanced-RCA)
THD + Noise @1kHz Full power	≤0.5%
Input sensitivity	525mV/22k Ω
CMRR	≥80dB
Tone control	±14dB
Mains	115 / 230VAC (selectable)
Auto standby time	2'30" (if Auto Standby is ON)
Power consumption (pink noise, 1/8 power @ 8ohm)	≤10.5W
Power consumption (pink noise, 1/3 power @ 8ohm)	≤23W
Power consumption Stand-by	≤3W

¹10dB below the sound pressure level at specified sensitivity

²6dB below the sound pressure level than that at the direction of maximum level, Max. angle between 1 kHz and 4 kHz.

³Measured on-axis, far field and referenced to 1 meter by inverse square law. Average from 100 Hz to 10 kHz.

⁴Calculated from sensitivity and power handling specifications, exclusive of power compression

eMOTUS5PB

System	
Effective frequency range ¹	85Hz – 20kHz
Coverage angle ²	124°x124° (HxV)
Power handling	25 W RMS / 100 W Peak
Sensitivity ³	77 dB (1W/1m)
Maximum SPL ⁴	91 dB continuous / 97 dB peak
Transducers	
Ways	2
Low frequency driver	5" woofer
High frequency driver	1 tweeter"
Nominal impedance	8Ω
Physical	
Grille material	Aluminium
Mounting system	Cabinet
Operating temperature	Min: -20°C ; -4°F Max: 70°C ; 158°F
Operating humidity	<85% HR
Storage temperature	Min: -20°C ; -4°F Max: 70°C ; 158°F
Storage humidity	<90% HR
Included accessories	Remote control, wall bracket and security steel cable
Optional accessories	Ecler TOCA-VOL Remote Wall Volume Control and Ecler GROUNDY / CEILY brackets.
Finished colour	White (RAL 9003)
Dimensions (WxHxD)	Not including brackets: 173 x 180 x 181mm / 6.81 x 7.09 x 7.13 in. Including brackets: 173 x 180 x 249 mm / 6.81 x 7.09 x 9.80 in.
Weight	4.8 kg / 10.58 lb 5.3 kg / 11.68 lb (including accessories)
Powered	
Power	2 x 25 W RMS / 100 W Peak
Audio inputs	2 analogue audio inputs (balanced-Euroblock and unbalanced-RCA) + BT input.
THD + Noise @1kHz Full power	≤0.5%
Input sensitivity	525mV/22k Ω
CMRR	≥80dB
Volume control	Remote port (RJ-45) for volume control (WPaVOL compatible)
Tone control	±14dB
Mains	115 / 230VAC (selectable)
Auto standby time	2'30" (if Auto Standby is ON)
Power consumption (pink noise, 1/8 power @ 8ohm)	≤10.5W
Power consumption (pink noise, 1/3 power @ 8ohm)	≤23W
Power consumption Stand-by	≤3W
BT module	
BT 4.0 Compliant Class II Range up to 10 Meters	

Supported BT Profiles: A2DP v1.2, AVRCP v1.4,
HFP v1.6, HSP v1.2
aptX, SBC, MP3 and AAC decoder support

Remote control

Fosc	455 kHz
Carrier frequency	38 kHz NEC format
Battery	Lithium Cell CR2025 3V

¹10dB below the sound pressure level at specified sensitivity

²6dB below the sound pressure level than that at the direction of maximum level, Max. angle between 1 kHz and 4 kHz.

³Measured on-axis, far field and referenced to 1 meter by inverse square law. Average from 100 Hz to 10 kHz.

⁴Calculated from sensitivity and power handling specifications, exclusive of power compression

10. PACKING CONTENT

- eMOTUS5P / eMOTUS5PB loudspeaker kit (one active unit + one passive unit)
- 2 x articulated brackets for wall mounting
- 5mm Allen key
- 2 x metal safety lines against any possible flaking off, with corresponding screws and lock washers.
- 2 x Euroblock connectors with three terminals for balanced stereo input
- Connectors / ACTIVE unit link cable – PASSIVE unit
- 8 x adhesive legs for positioning the loudspeakers on a desktop
- Power cable for the MASTER unit
- The eMOTUS5PB kit also includes a remote control (battery included)
- Quick start Guide
- Warranty card

