

Wireless Sub woofer Speaker

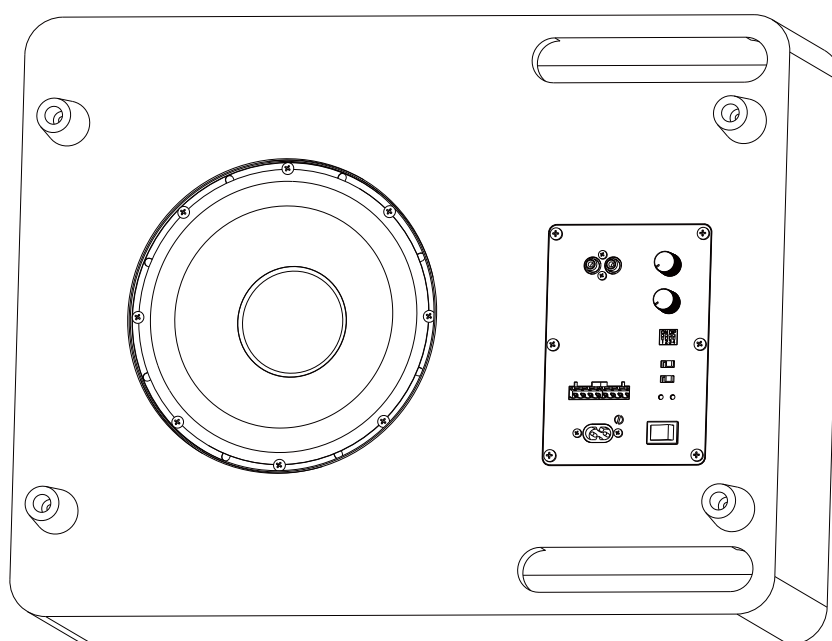


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INFORMATION

This manual has been carefully compiled and is as complete as possible as of the publication date. However, updates to the specifications, functionality, or software may have occurred since then.

Introduction

Active speaker system

This speaker is a bass-heavy active system. Paired with a custom wireless audio transmitter and ceiling/satellite speakers using the same wireless system, it offers a simple and flexible solution for all kinds of setups, delivering clear and powerful sound. The speaker has a built-in amp that provides 120 watts of power, and it comes with stereo line input and high level input/output, making it easy to connect to various audio sources. The phase switch helps it perfectly match your sound system, and the auto standby mode reduces power consumption when there's no input signal.

A specially designed bracket system allows the speakers to be wall-mounted, and this bracket structure ensures the system looks its best. the recessed bracket structure guarantees an optimal cosmetic outlook of the system.

Precautions

READ FOLLOWING INSTRUCTIONS FOR YOUR OWN SAFETY

ALWAYS KEEP THESE INSTRUCTIONS. NEVER THROW THEM AWAY

ALWAYS HANDLE THIS UNIT WITH CARE

HEED ALL WARNINGS

FOLLOW ALL INSTRUCTIONS

NEVER EXPOSE THIS EQUIPMENT TO RAIN, MOISTURE, ANY DRIPPING OR SPLASHING LIQUID. AND NEVER PLACE AN OBJECT FILLED WITH LIQUID ON TOP OF THIS DEVICE

NO NAKED FLAME SOURCES, SUCH AS LIGHTED CANDLES, SHOULD BE PLACED ON THE APPARATUS

DO NOT PLACE THIS UNIT IN AN ENCLOSED ENVIRONMENT SUCH AS A BOOKSHELF OR CLOSET. ENSURE THERE IS ADEQUATE VENTILATION TO COOL THE UNIT. DO NOT BLOCK THE VENTILATION OPENINGS.

DO NOT STICK ANY OBJECTS THROUGH THE VENTILATION OPENINGS.

DO NOT INSTALL THIS UNIT NEAR ANY HEAT SOURCES SUCH AS RADIATORS OR OTHER APPARATUS THAT PRODUCE HEAT

DO NOT PLACE THIS UNIT IN ENVIRONMENTS WHICH CONTAIN HIGH LEVELS OF DUST, HEAT, MOISTURE OR VIBRATION

THIS UNIT IS DEVELOPED FOR INDOOR USE ONLY. DO NOT USE IT OUTDOORS

PLACE THE UNIT ON A STABLE BASE OR MOUNT IT IN A STABLE RACK

ONLY USE ATTACHMENTS & ACCESSORIES SPECIFIED BY THE MANUFACTURER

UNPLUG THIS APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME

ONLY CONNECT THIS UNIT TO A MAINS SOCKET OUTLET WITH PROTECTIVE EARTHING CONNECTION

THE MAINS PLUG OR APPLIANCE COUPLER IS USED AS THE DISCONNECT DEVICE, SO THE DISCONNECT DEVICE SHALL BE READILY OPERABLE

USE THE APPARATUS ONLY IN MODERATE CLIMATES

CAUTION

The symbols shown are internationally recognized symbols that warn about potential hazards of electrical products.

The lightning flash with arrow point in an equilateral triangle means that the unit contains dangerous voltages. The exclamation point in an equilateral triangle indicates that it is necessary for the user to refer to the users manual.



These symbols warn that there are no user serviceable parts inside the unit. Do not open the unit. Do not attempt to service the unit yourself. Refer all servicing to qualified personnel. Opening the chassis for any reason will void the manufacturer's warranty. Do not get the unit wet. If liquid is spilled on the unit, shut it off immediately and take it to a dealer for service. Disconnect the unit during storms to prevent damage.



CAUTION - SERVICING

This product contains no user serviceable parts. Refer all servicing to qualified service personnel. Do not perform any servicing (unless you are qualified to)



EC DECLARATION OF CONFORMITY

This product conforms to all the essential requirements and further relevant specifications described in following directives:
2014/30/EU (EMC) and 2014/35/EU (LVD)

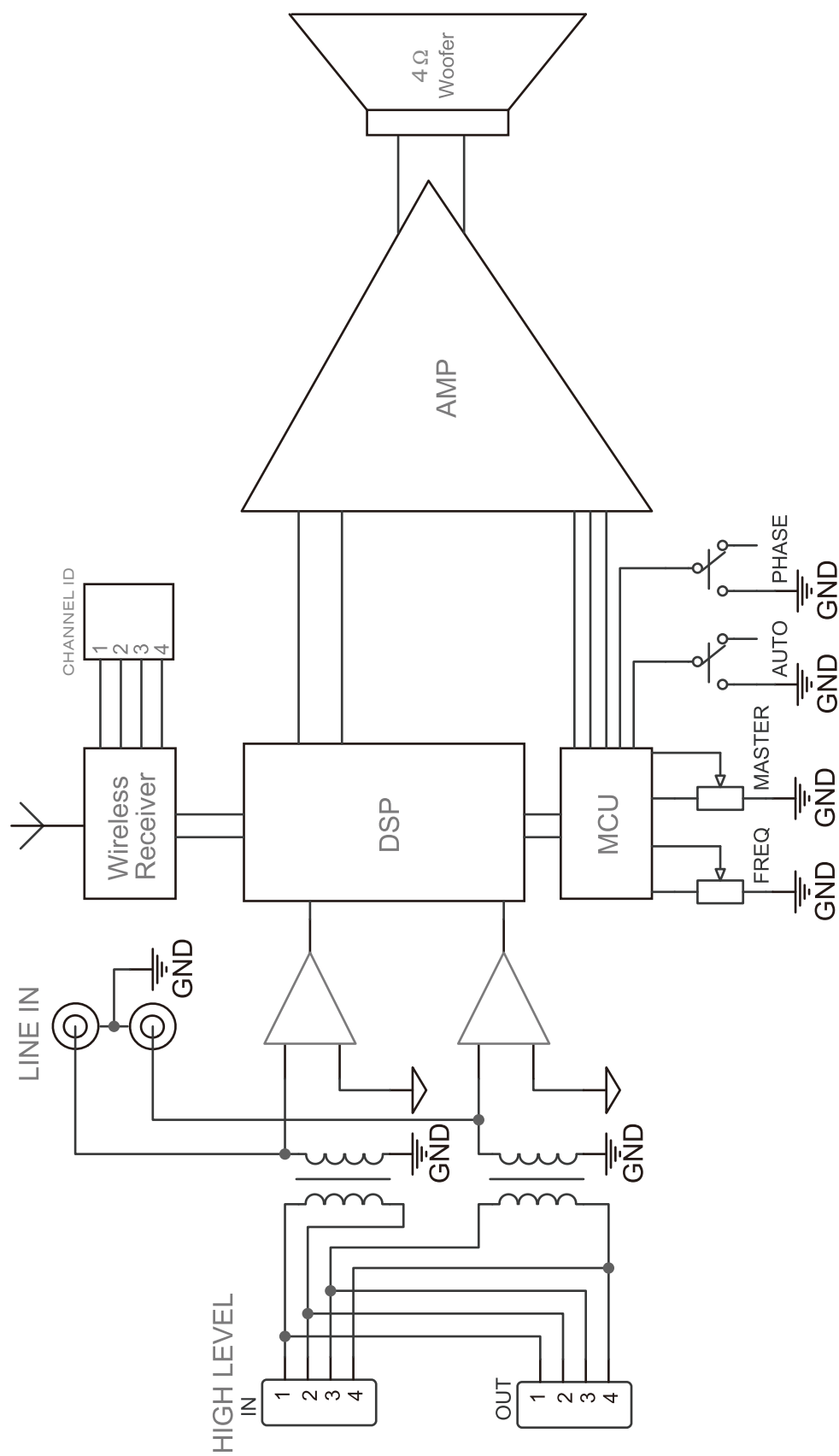


WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

The WEEE marking indicates that this product should not be disposed with regular household waste at the end of its life cycle. This regulation is created to prevent any possible harm to the environment or human health.

This product is developed and manufactured with high quality materials and components which can be recycled and/or reused. Please dispose this product at your local collection point or recycling center for electrical and electronic waste. This will make sure that it will be recycled in an environmentally friendly manner, and will help to protect the environment in which we all live.

System Block diagram

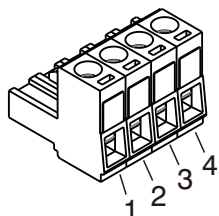


Chapter 1

Connections and connectors

The in- and output connections for we audio equipment are performed according to international wiring standards for professional audio equipment.

4-Pin Terminal block



- 1: High level channel L+
- 2: High level channel L-
- 3: High level channel R+
- 4: High level channel R-

RCA (Cinch):

For unbalanced line input connections.

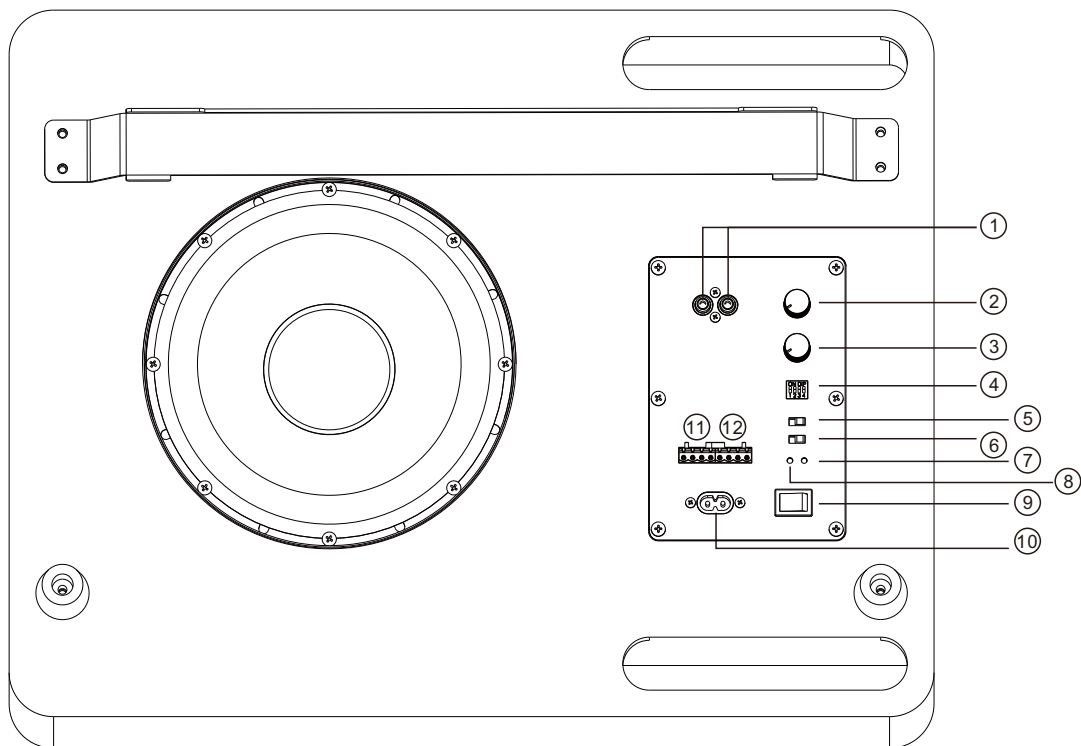


Tip: Signal
White: Left

Sleeve: Ground
Red: Right

Chapter 2

Overview:



1. LINE IN

Portable audio sources such as laptops and smart phones may be interfaced to this unbalanced line input. The injected signal shall be of line-level magnitude.
2. LEVEL CONTROL

Regulates the overall loudness of the loudspeaker system.
3. FREQUENCY CONTROL

Attenuating select frequencies imparts warmth and sonic weight to audio reproduction. Frequency elevation enhances programme clarity, particularly within highly reverberant spaces. Parameters are adjustable across the 65Hz–150Hz bandwidth.
4. CHANNEL ID

This 4-bit wireless receive address DIP switch shall be congruent with the 4-bit DIP switch situated on the rear panel of the transmitter (see Chapter 4).
5. PHASE SWITCH

In essence, this serves as a polarity selector featuring two operational states: 0° (normal) and 180° (inverted).
- 0°: Upon the amplifier delivering positive voltage, the subwoofer cone extends outwards.
- 180°: Upon the amplifier delivering positive voltage, the subwoofer cone retracts inwards.
- 6.STANDBY SWITCH

The unit will transition to an automatic power-saving mode following approximately 120 seconds of signal

- inactivity. It resumes operation instantaneously upon detection of an incoming audio signal. This switch permits activation or deactivation of the auto-standby function in scenarios where such automatic behaviour is undesired.
- 7.BST LED

Once the system is fully configured and the transmitter energised, the orange LED illuminates, signifying successful establishment of the BST wireless link.
- 8.PWR LED

The green LED activates when the Power Switch (Item 9) is toggled on.
- 9.POWER SWITCH
- 10.POWER SUPPLY SOCKET

AC mains power (100–250VAC, 50–60Hz) shall be connected to this inlet via an IEC 60320 C7 power connector. A fuse holder housing the main protective fuse is integrated within the loudspeaker enclosure.
- 10.HIGH LEVEL IN

This input accepts amplified high-power loudspeaker signals, as opposed to low-level pre-amplified line signals such as RCA inputs. The active subwoofer incorporates an internal attenuation network to reduce the full-range high-power signal sourced from the external amplifier. The signal is then filtered and routed to the subwoofer's dedicated amplifier to actuate the woofer driver.
- 11.HIGH LEVEL OUT

Bypass output for the High Level Input signal.

Chapter 3

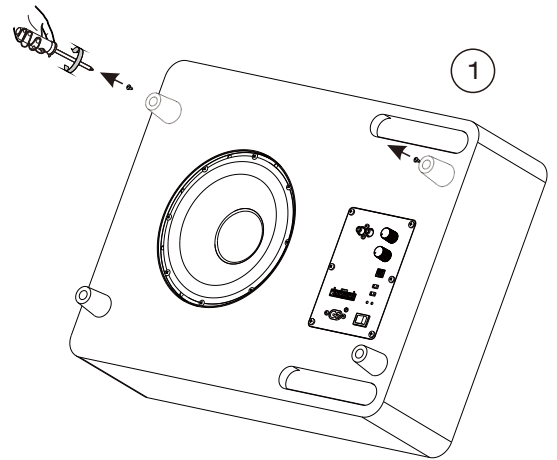
Installation

The speaker comes standard delivered with a mounting bracket for on-wall installation. The installation of this bracket shall be done according to a simple 5-step procedure as described below:

! CAUTION: The hanging point must be able to support at least 20 kgs of weight.

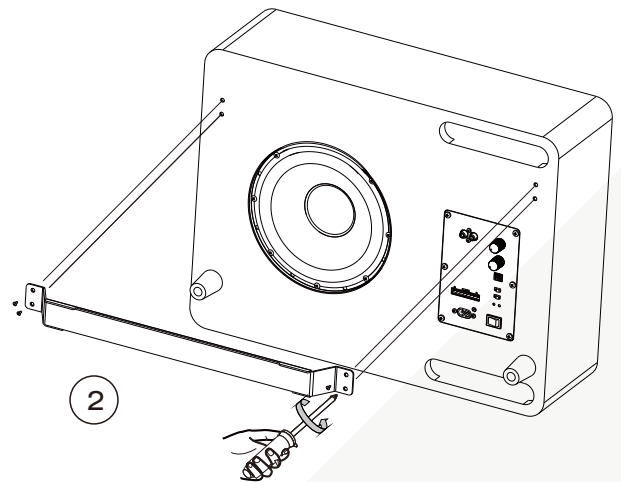
step1: Remove the rubber feet

The cabinet comes delivered with 4 pcs of rubber feet assembled supporting the cabinet for floor standing use. When installing the cabinet to the wall, two pcs of these rubber feet must be removed for assembly of the supporting bar. Note that the cabinet can be mounted only one directions. both feet on the upper side needs to be removed. Keep the removed screws for the next step.

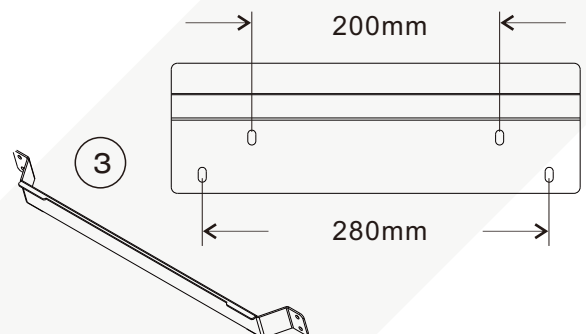


step2: Assembling the cabinet supporting bar

Once both rubber feet are removed, the supporting bar for hooking the cabinet to the wall plate needs to be assembled. Place the supporting bar on the position where both rubber feet were located and fix it with the screws removed in step 1. Mind the mounting direction when installing.



step 3: The wall plate has to be fixed using four screws. The exact screw positioning is shown in the drawing below. The used fasteners should be chosen depending on the mounting surface (brick, concrete, wood, gypsum, ...). Make sure the mounting surface can structurally support the weight of the speaker.

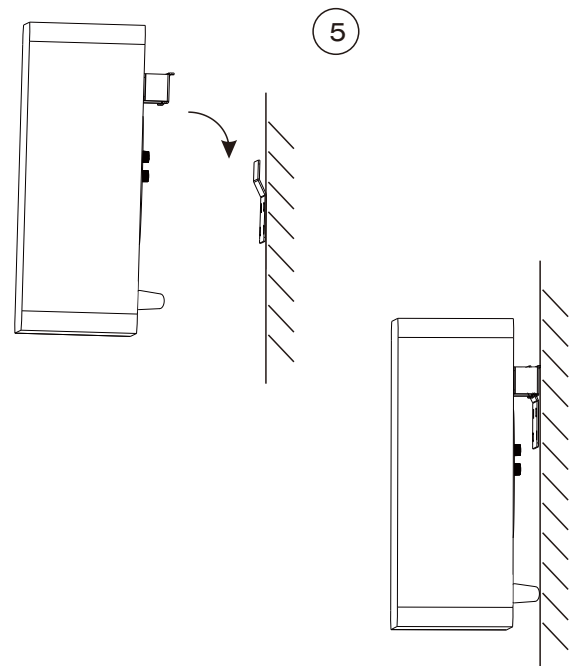


step 4: Connect the wiring

Once the wall plate is mounted, the wiring shall be connected before hooking the cabinet to the wall plate. make sure all wiring is guided and fixed properly so the loose wiring won't touch any moving parts such as the speaker cone.

step 5: Hook the cabinet to the wall plate

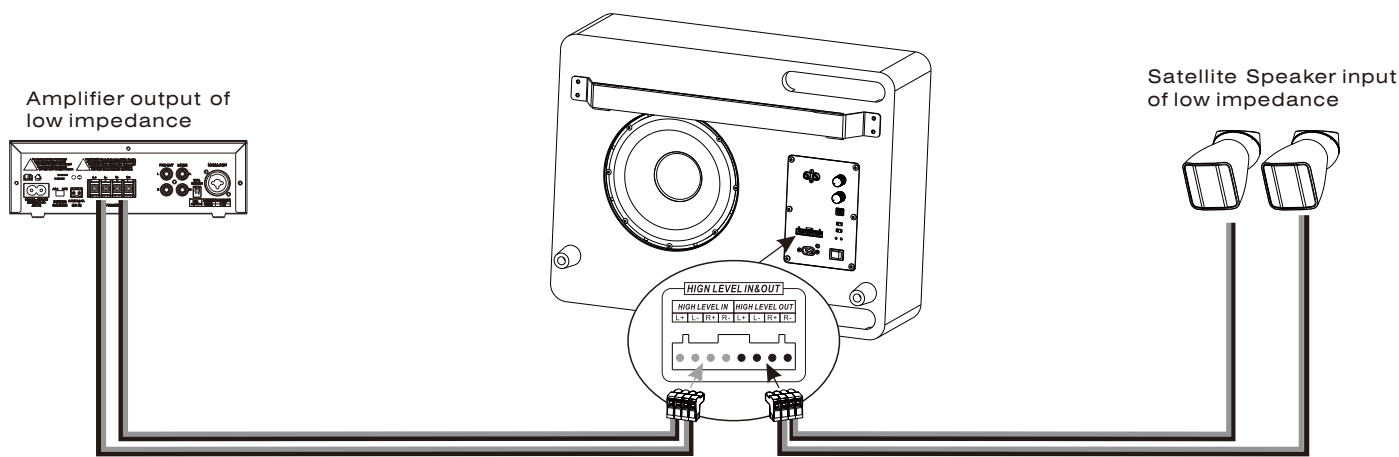
The last step is hooking the cabinet to the wall plate. This is done by sliding the cabinet support bar over the wall plate followed by a downwards movement of the speaker, as indicated in the drawing below.



Chapter 4

High level in/out connector

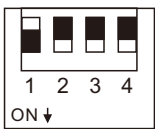
Connecting the speaker to the high-level unit is optional. Use standard speaker wires for the connection.



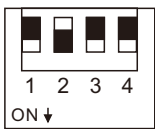
! CAUTION: Out is just a bypass output of the in.

Wireless connector

The transmitter and receiver are equipped with a 4-digit BST channel DIP switch. The ON position in the DIP switch represent “1”, while the OFF position represent “0”, for instance, if the first switch is turn ON, and the second, third, and fourth switches are OFF, it signifies that the BST channel is set to “1000”. similarly, if the second switch is turned ON and the other are OFF, the channel BST address would be “0100”. this arrangement of combinations can support a maximum of 16 different BST channels.



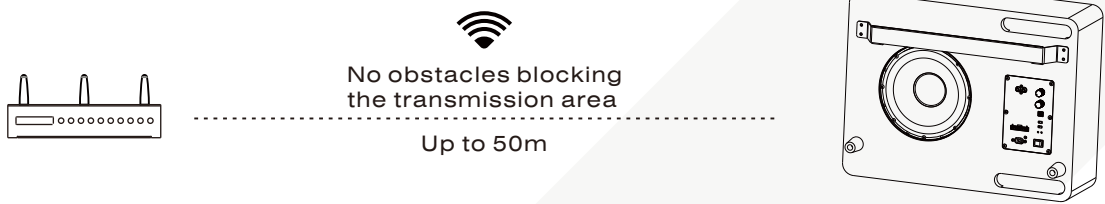
address set is “1000”



address set is “0100”

! ATTENTION: The transmitter & receiver must be on the same address to establish a BST wireless network. After setting the Channel address, restart both the transmitter & receiver.

Transmission distance



Chapter 5

Technical specifications

RMS rating		120W
MAX rating		240W
Frequency range		20Hz - 150Hz
Frequency continuously adjustable		65Hz - 150Hz
BST wireless network frequency band		2.4G
Line in		315mV
High level in		<30V
High level out		same as high level in
Power supply		AC100V-250V/50-60Hz
Drivers		8" paper woofer
Construction	Cabinet	Wood
	Bracke	Powder coated steel
Connectors	Powe	IEC 60320 C7
	Input	Unbalanced (RCA jack)
		High level in (5.08mm 4-pin Terminal block)
		High level out (5.08mm 4-pin Terminal block)
Controls	Output	Frequency control
		Level control
		Phase switch
		Standby switch
Colors		White
		Black
Dimensions (exl bracket)		545x150x337mm

