

**Manual
applicable for****BTR 55 MK 2**

124-055-03-012-00, 124-055-03-015-00, 124-055-04-012-00, 124-055-05-012-00,
124-055-06-012-00

1. Introduction

Thank you for buying this quality WHD product. Please read this manual carefully, especially the safety and security information.

Please check that you have the correct manual for your product. To do this, please compare the product code number shown above with the product code number displayed on your product.

**2. Contents Check List**

- BTR 55 MK 2
- 2 pieces. PT screws 3x16
- Silicone tube (length: 250 mm)
- 2 pieces. cardboard distance rings
- Manual

3. Safety & security**Important information**

In addition to this guidance please comply with your own country-specific safety & security regulations.

3.1. How to use this guide:

Read these instructions carefully before use and use this product only in accordance with the instructions listed here.

3.2. Signs & symbols used

This sign warns of the danger of injury and property damage.



This sign warns of injury arising from electricity.



This sign warns of injury and/or explosion.



This symbol refers to additional information.

3.3. Signal words and their meaning

Danger: Potential severe physical damage and acute danger.

Warning: Potential electrical shock physical damage and severe property damage.

Caution: Potential fire hazard, physical damage or property damage as a result thereof.

Attention: Advisory notes only.

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Warning

The 230V power line is only permitted to be connected by a qualified professional electrician.
The electrical supply must be disconnected before working on the device.

Improper handling may void warranty.

4. Product Scope

The BTR 55 MK 2 is a stereo Bluetooth receiver. You can connect it to an audio device to play music from any Bluetooth-enabled device, which corresponds to the standard A2DP.

5. Intended use

Indoors, flush mounted socket.



6. Improper use

The device is not suitable for outdoor operation.
The ambient air temperature should not exceed 30 ° C.

7. BTR 55 MK 2 specifications

Supply Voltage	230 V AC, 50 Hz
Output	2 x 1.2 watt
Speaker Impedance	2 x 4 ohms
Impedance Line-Out	470 ohms
THD	Type: 0.5 % @ 1 kHz
Frequency Range	30 Hz ~ 20 kHz / -3 dB
Output Voltage Line-Out	0.2 V AC (depends on mobile device)
SNR	Speaker: 70 dB Line-Out: 70 dB
Bluetooth Version	Bluetooth V2.1
Bluetooth Profile	A2DP
Bluetooth Frequency	2.4GHz-2.4835GHz
Maximum distance between transmitter and receiver	10 m, Class II
AC Power (Operation mode)	6 VA
AC Power (Stand-By)	< 0.5 VA
Protection Class	II
Dimensions	55×55×36 mm
Depth	36 mm
Weight	100 g
Operating Temperature	+5°C to +45°C

8. Preparatory work before installation

Unpack the unit carefully and keep the original packaging (for future return under warranty if required). Read the instructions carefully before installation.

Install the power cable for 230 VAC and the RCA cable (for the music centre AUX-in) in accordance with installation guidelines, and your desired port scenario.

If necessary, hire a professional company for installation, configuration and implementation.

9. Installing the device

The Bluetooth receiver is mounted in an in-wall box with a 60 mm diameter. It has a built-in stereo amplifier with a direct connection for the speakers. A separate line-out output allows connection to a stereo system or multi-room system. The Bluetooth transmitter is integrated on the front of the device.

Note:

The unit must be permanently installed.

For installation, a recessed box with a 60 mm diameter is required. Two PT screws, 3 x 14 are included.

9.1. Connections



When looking at the front of the BTR 55 the connectors are located as follows:

Left side connections:

LINE OUT L (left)... above

LINE OUT R (right)... below

Right side connections:

Speaker L (left)... above

Speaker R (right)... below

The connector for 230V AC is located on the top.

The cables are fixed using screw-type terminal connectors.

Remove the front plate.

The screw-type terminals are now accessible.

Note:

The screw-type terminals for 230 VAC are slightly recessed in the housing.

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9.2. Connecting power supply

Connecting the 230 VAC cable:

Plug the cable into the screw-type terminal and fasten it firmly with the screws on the front.

Note:

To protect the device against electromagnetic interference there is the silicone tube. Cut it into 2 pieces and run the wires (L) and (N) of the 230V cable through the tubes before connecting them on the terminal.

Push the silicone tube as far as possible towards the terminal.

**Attention:**

When connecting the supply voltage (230V ~ / 50Hz), the electrical system must be voltage free.

The supply line must be protected with a circuit breaker (max. 16A).

9.3. Connecting Line-Out (unregulated Line-Out)

Connect the Line-Out terminals when needed to your audio system.

Plug the RCA cable into the terminal and screw it firmly with the screws on the front.

Note:

For connecting the Line-Out ports only use shielded cables. The shield of the cable has to be connected to the **earth-terminal**.

9.4. Connecting the speakers



Connect the speakers to the screw-type terminals provided.
Plug the speaker cable into the screw-type terminal and fasten it firmly with the screws on the front.

Note:

The speakers must be connected with separate wires. Never use the same wires. The speaker impedance must be **a minimum of 4 ohms** (i.e.: you can connect one 4ohm speaker or two 8ohm speakers parallel). Please observe the correct polarity.

9.5. Mounting

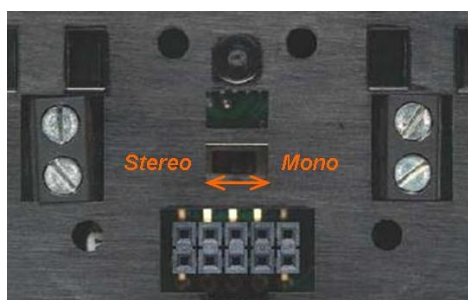


Screw the flush mounting unit of the BTR 55 MK 2 supplied with the PT-screws into the wall outlet. After the flush-mounted unit, the frame and the supplied front panel can be clipped on.
Height differences between the front panel and frame can be offset by the compensation frame provided under the scope of delivery. The dimensions of the front panel are 55 x 55 mm.

Note:

The frame is not part of the device. It must be ordered according to the chosen program switches from the switch manufacturer.

9.6. Select MONO/STEREO mode



Underneath the front panel of the BTR 55 MK 2 is the switch for MONO-/STEREO operation. Take off the front panel carefully.
Set the dipswitch to the desired operating mode.
Left: STEREO
Right: MONO
Then press the front panel back on.

Note:

In MONO mode a mixed signal from the left and right channel of the music signal is between the terminals L (+/earth) and R (+/earth) of the Line-Out and the speaker output. So you can connect one 4 ohm speaker or two 8 ohm speakers to any speaker output, e.g. to sonicate a bedroom with the left speaker output and also a dressing room with the right speaker output.

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10. Operation



10.1. Turning ON the BTR 55 MK 2


Press the ON/OFF button (Symbol ). The blue LED turns on for 3 seconds and then flashes once a second for 1 minute.

Now the BTR 55 MK 2 is in pairing mode.

10.2. Turn OFF the BTR 55 MK 2

Press the ON/OFF button (symbol ). The blue LED turns off.

10.3. Pairing with a Bluetooth-enabled device

Turn ON the BTR 55 MK 2 with the ON/OFF button (Symbol ) and wait until the blue LED is constantly blinking. Now the Pairing can be executed.



Note:

The BTR 55 MK 2 remains in the Pairing Mode for max. 1 minute and then if there is no external Bluetooth device connected automatically switches to the Stand-By Mode.

Note:

The BTR 55 MK 2 can handle and save a **maximum of 8 separate Pairings** to Bluetooth-enabled devices. When adding a new device the first Pairing will be overwritten.



Note the following advice for Pairing

Make sure that your Bluetooth device enables A2DP specifications according to IEEE 802.15.1. The Pairing itself may be different concerning manufacturer or device.

Read the user manual of your Bluetooth-enabled device carefully!

Pairing in general:

1. There must be line of sight connection when the Pairing is performed. Make sure that there is a maximum distance of not more than 1m between the BTR 55 MK 2 and your Bluetooth-enabled device.
2. Activate the Pairing Mode on the BTR 55 MK 2 (switch it on and wait until the LED is blinking).
3. Activate the Bluetooth Mode of your mobile device and start the SEARCH function for other Bluetooth equipment. The BTR 55 MK 2 will show as „**WHD BTR 55 MK2**“. Select and continue.
4. If there is a password needed please enter „0000“.
5. When the connection is established the blue status LED is constantly on and the amplifier is at preset volume level.

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After the first Pairing with an external device the BTR 55 MK 2 identifies the mobile device and no future Pairing is necessary.

Automated Pairing:

If the Bluetooth connection is shut down by the mobile device the BTR 55 MK 2 starts another pairing procedure for 3 minutes.

If you want to connect your mobile device again, then first turn on the BTR 55 MK 2 as described in 10.1, press the On/Off button and connect again via the menu on your mobile device.

Point-to-Point (PtP) Connection:

You must not connect another mobile device with Bluetooth to the BTR 55 MK 2 whilst the first device is active. For playing music with another device just disconnect the Bluetooth function on your first device (switch off Bluetooth mode).

Press the off button again to start the music on the mobile device (play).

! This function may depend on the functionality of your mobile device.

The blue LED is now constantly on.

Automatically link:

Each time the BTR 55 MK 2 will automatically connect to the last connected device. If you want to pair the BTR 55 MK 2 with another device, you first turn on the Bluetooth function on the last connected devices and then pair the BTR 55 MK 2 described the new mobile device as above.

Separation is possible only within reach

If the BTR 55 MK 2 and the mobile device can not be separated because they are out of range, then bring everything back to separate them within reach

If the Bluetooth version of your device complies with V2.1 or higher, then no password entry is required.

10.4. Operation


The volume and track selection is performed through the music source (Bluetooth-enabled mobile device).


To adjust the BTR 55 MK 2 the current acoustic boundary conditions, a preset of the basic volume on the amplifier is possible.

Preset of the default volume level

Press the ON / OFF button (Symbol ) for about 3 seconds

In this mode the blue LED shows the actual volume level by blinking (one blink is 1,25 dB). First, the LED lights up and then signalled by flashing on which level the amplifier is (1 (low) ... 9 (high)).

A short press of the button (Symbol ): **Volume DOWN.**

Long press on the button (Symbol ): **Volume UP.**

The preset function terminates automatically if no key is pressed for 30 seconds.

Note:

If you have lost contact with the BTR 55 longer than 20 minutes (outside the radio range), the connection must be re-established. The pairing is maintained.

Version (Technical and optical modifications reserved)

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10.5. LED Status Signals



Blue LED Signal	Status
Constantly blinking	Pairing Mode
Constantly on	connected
Volume Preset (blinks after long lights ... times)	Basic Volume
1	Low
...	...
9	High

11. Disposal



interseroh
DSI



WHD are members of the INTERSEROH association.

We participate in the dual system as well as other industry-specific solutions. Therefore, plastic, metal and electronic parts can all be recycled.

12. Declaration of Conformity



This product supports all CE-marking criteria.
The declaration of conformity certificate can be obtained from WHD

13. Name and address of the manufacturer

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