

Handheld Transmitter Version / Bodypack Transmitter Version

USER MANUAL – Section 1

The warnings contained in this manual as well as the information listed in "USER MANUAL - Section 2" must be complied with.



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1. GENERAL INFORMATION AND MAIN SECTIONS

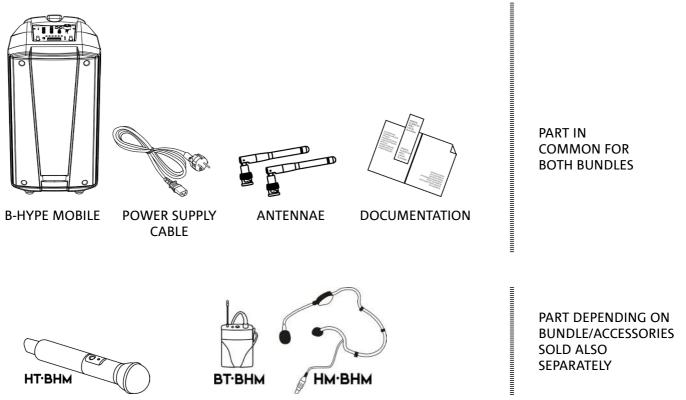
WELCOME!

Thanks for purchasing a dBTechnologies product! B-HYPE MOBILE is a mobile bi-amplified multimedia speaker available in 2 versions:

- a bundle with wireless handheld transmitter (handheld radio microphone)
- a bundle with bodypack transmitter and headset with microphone

The wireless system is available in 3 frequency bands (also according to the Country of sale). It can work both with network connection and with batteries. It can be reconfigured at any time thanks to the different accessories available.

PACKAGE CONTENTS



USER REFERENCE

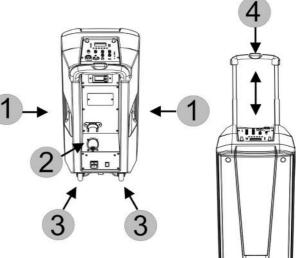
To make the most of your B-HYPE MOBILE, we recommend that you:

- read the quick start user manual included in the package and this user manual thoroughly and keep this manual during the whole life of the product.
- comply carefully with the rules for use and storage of the batteries (transmitters)
- Register your product at http://www.dbtechnologies.com under "SUPPORT".
- keep proof of purchase and WARRANTY (User manual "section 2").

MECHANICS

B-HYPE MOBILE is equipped with:

- 1. side handles
- 2. housing for the HT-BHM radio microphone
- 3. wheels for handling
- 4. upper handle (with central release button)



OVERVIEW OF THE EQUIPMENT

On the upper side and at the back of the speaker there are:

- 5. media player interface
- 6. control and connection section
- 7. R-BHM receiver module
- 8. lithium-ion battery compartment
- 9. battery charger with LED for HT-BHM radio microphone
- 10. power supply unit section



WARNING!

Avoid any direct contact with water or environments that are too humid during use.

Avoid any direct exposure to sunlight for long periods.

Ensure good aeration around the loudspeaker to facilitate heat dissipation. Never attempt to open or access the amplifier panel or the loudspeaker acoustic components.

Follow the instructions listed in this manual.



POWER SUPPLY UNIT SECTION

This section contains:

- connector for the supplied power supply cable
- three-state switch:

ON - full operation of all functions and operation both with network cable and with battery only in mobile mode. **OFF** - no operation (device completely off) **RECHARGE** - the system in stand-by, connected to the network, recharges the inner battery and the BT-BHM radio microphone, if any. 220-240V~ 50-60Hz 0,65A (T1A L250V~) 100-120V~ 50-60Hz 1,3A (T1,6A L250V~) Internal voltage setup



(REPLACE FUSE WITH SAME RATINGS) (REMPLACER LE FUSIBLE AVEC LE MÊME TYPE)



SECTION FOR THE CONNECTIONS, CONTROL AND MONITORING OF THE BATTERY

This section contains inputs/outputs and volume mixer adjustments. All monitoring LEDs of the system and of the internal battery are also present. In particular, the following can be found:

- CH1: Combo connector (XLR/TRS) with relevant input type switch and volume rotary switch. If a microphone is connected, select the position Mic.
- CH2: The connectors available are AUX (3.5 mm mini-jack) and RCA stereo with relevant volume rotary switch of the channel.
- MASTER SECTION (3 rotary switches): general volume switch, TREBLE and BASS equalization rotary switches.
- VOLUME ROTARY SWITCH ()/USB/SD: it controls the volume of the playable media (see section "MEDIA PLAYER INTERFACE" for further information)
- Line Output: unbalanced connector to link the B-HYPE MOBILE output to another active loudspeaker (e.g. another B-HYPE MOBILE system). For example, the Line Output of a B-HYPE MOBILE can be connected to the CH1 of a second one to obtain a distributed system.
- CH1/RF Priority. In "On" position the audio level of the 2 channels CH2 and /USB/ SD is immediately reduced by the presence of a signal on CH1 or on the radio frequency microphone.



The monitoring LEDs of the system and of the internal battery provide immediate information to the user.

The POWER LED indicates whether B-HYPE MOBILE is on (green light) or off.

The internal battery will recharge with B-HYPE MOBILE connected to the power mains (through the cable supplied) and in RECHARGE position. The recharge is carried out in a less efficient manner also during the operation in ON position. The CHARGE LED is red if the battery is flat, and green when completely charged.

When B-HYPE MOBILE is used in mobile mode (without power supply cable), in ON, the Battery level LEDs turn on depending on the battery charge status.



WARNING!

Whenever possible, charge the battery completely. Never store it completely empy or half empty. If the device is inactive for a long period, disconnect the battery, covers the terminals and store the battery in a dry place away from heat sources, and regularly recharge the battery.

MEDIA PLAYER INTERFACE

This section contains the controls and inputs to play .mp3, .wav, .wma files from:

- SD cards
- USB memory device
- Bluetooth device correctly paired

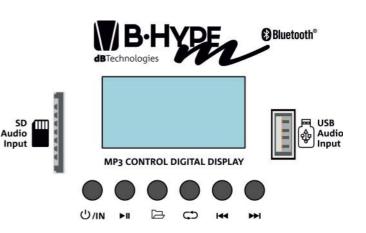
To play a file from the SD card / USB device:

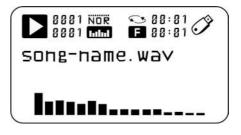
- 1. Turn B-HYPE MOBILE on after connecting the power supply cable (switch in ON position). For further information, see paragraph "POWER SUPPLY UNIT SECTION".
- 2. Insert the correct device in the relevant input (see figure on the side). Note: it is possible to use only one device at a time
- 3. Press the switch-on button ♡/N of the player for a few seconds. Once the display is on, push the button shortly to select the source type.
- Press the buttons ► C→ C→ I → F
 respectively to: play/pause the track, search through the folders, automatically repeat the track/access the equalization, rewind, fast forward.
- Adjust the 2 volumes of the mixer area (see section "SECTION FOR CONNECTIONS AND CONTROL"):
- MASTER volume
- Volume ()/USB/SD

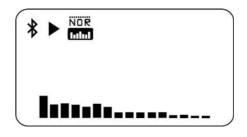
To play the file from a **Bluetooth** device:

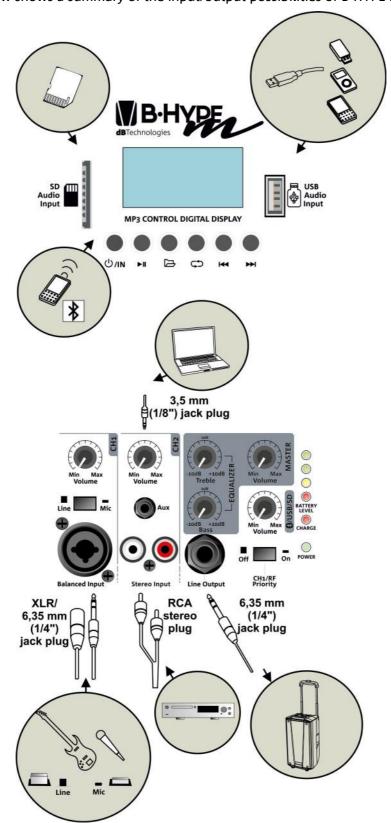
- 1. Turn B-HYPE MOBILE on after connecting the power supply cable (switch in ON position). For further information, see paragraph "POWER SUPPLY UNIT SECTION".
- 2. Press the switch-on button⁽⁾/IN of the player for a few seconds. Once the display is on, push the button shortly to select the source type.
- Enable the Bluetooth function on the player/ device containing the audio track, checking that its visibility is enabled.
- 4. Once communication is established the name of the device is shown on display.
- Adjust the 2 volumes of the mixer area (see section "SECTION FOR CONNECTIONS AND CONTROL"):
- MASTER volume
- Volume ()/USB/SD











The diagram below shows a summary of the input/output possibilities of B-HYPE MOBILE.

2. ANTENNAE, RECEIVER AND TRANSMITTERS

The B-HYPE MOBILE system is equipped, depending on the purchased bundle, of a handheld radio microphone or bodypack.

Based on the availability and on the Country of use, the system is sold in one of the following three frequency bands:

- 542-566 MHz
- 638-662 MHz
- 863-865 MHz

To enable the radio transmission/reception it is necessary to install the supplied antennae on the upper side of B-HYPE MOBILE, as shown in the figures on the side.

R-BHM

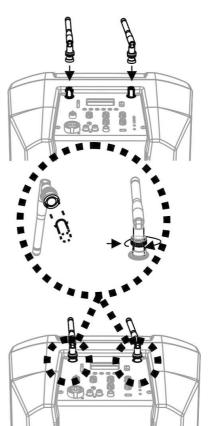
The R-BHM receiver is on the back of the system. It is equipped with a display and three buttons that allow the synchronisation with the radio microphone and provide real time information on the transmitter/ receiver communication.

In particular, the display (see figure on the side) shows:

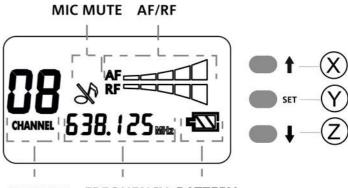
- CHANNEL (it shows the number of the channel being used among the ones available)
- FREQUENCY (frequency of the channel)
- BATTERY LEVEL (battery level of the transmitter)
- MIC MUTE (mute setting of the radio microphone)
- AF/RF (signal level of the radio microphone/squelch of the radio signal)

Buttons:

X (symbol ↑): increases a value / allows the synchronisation if pressed for a few seconds Y (symbol sET): allows accessing the AF and RF adjustment page in sequence to set their levels Z (symbol 1): decreases a value







CHANNEL FREQUENCY BATTERY LEVEL

AF = AUDIO VOLUME INTENSITY RF = WIRELESS RECEPTION INTENSITY

НТ-ВНМ

The handheld transmitter (handheld radio microphone) is equipped with:

A - Status LEDs

B - ON/OFF/MUTE BUTTON (depending on whether it is pressed for a few seconds or instantaneously, it turns on/ mutes/turns off the microphone)

C - IR lens useful during synchronisation of the device with the R-BHM receiver

D - Rotary switch for gain adjustment

E - Micro screwdriver for gain adjustment [D]

F - Removable cover of the battery housing (placed on the back)



WARNING!

On HT-BHM, the use of RECHARGEABLE AA batteries of the Ni-MH type (not supplied) is required. The use of Lithium, Alkaline, Ni-Cd or other types of batteries is not allowed.

Batteries are inserted by unscrewing the cover [F] and inserting the batteries of the type indicated above, following the correct polarity.

If the radio microphone is not used for a long period, remove the batteries from the device and store them in a suitable place.

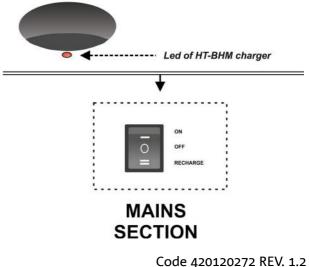
To use HT-BHM with B-HYPE MOBILE see the synchronisation procedure in the relevant paragraph.

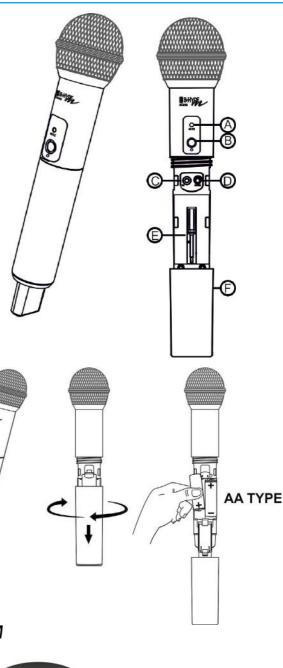
HOUSING WITH BATTERY CHARGER FOR HT-BHM

With B-HYPE MOBILE in ON or RECHARGE mode, if HT-BHM is correctly inserted in the housing on the back, an appropriate circuit will recharge the batteries (Ni-MH rechargeable batteries).

The LED of the housing can be:

- RED the battery is charging
- GREEN the battery has completed its recharge cycle
- FLASHING RED the protection circuit has identified an incorrect battery type in the radio microphone. Replace them immediately with the appropriate type (Ni-MH)





BT-BHM

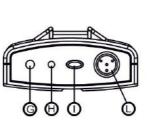
The bodypack transmitter is equipped with:

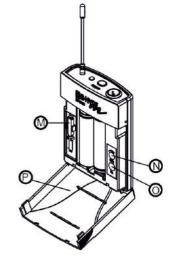
G - Antenna

H - Status LEDs

I - ON/OFF/MUTE BUTTON (depending on whether it is pressed for a few seconds or instantaneously, it turns on/ mutes/turns off the microphone)
 M - Micro screwdriver for gain adjustment [N]
 N - Rotary switch for gain adjustment

- O IR lens useful during synchronisation of the device with the R-BHM receiver
- P Removable cover of the battery housing

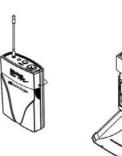




On BT-BHM it is possible to use any type of batteries. Its use is not bound to the battery charger of B-HYPE MOBILE.

Batteries are inserted by opening the cover [P] and inserting the batteries following the correct polarity. If the radio microphone is not used for a long period, remove the batteries from the device and store them in a suitable place.

To use BT-BHM with B-HYPE MOBILE see the synchronisation procedure in the relevant paragraph.

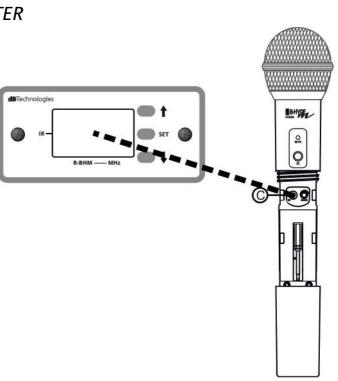


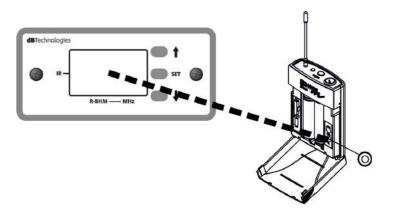
ΑΑ ΤΥΡΕ

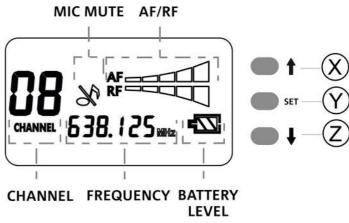
SYNCHRONISATION OF THE TRANSMITTER

To play a file from the SD card / USB device:

- Turn B-HYPE MOBILE on after connecting the power supply cable (switch in ON position). Check that the MASTER volume is on a medium/low level at this stage.
- 2. Open the battery compartments of the transmitters as shown in the previous sections.
- 3. Shortly press the button ON/OFF/MUTE on the transmitter.
- Select a channel with the keys X (↑ symbol) and Z (↓ symbol) on the R-BHM receiver.
- 5. Hold key X (symbol) pressed for a few seconds on receiver R-BHM: the CHANNEL values on the display will start flashing.
- 6. Position the IR lens of the transmitter in front of the display of R-BHM. The correct distance is maximum of approx. 15-30 cm.
- 7. Synchronisation will be carried out in a few seconds and the CHANNEL values on the display will stop flashing.
- 8. Adjust the gain on the transmitter using the relevant rotary switch and the supplied micro screwdriver.
- 9. Place the cover of the battery back on the transmitter.

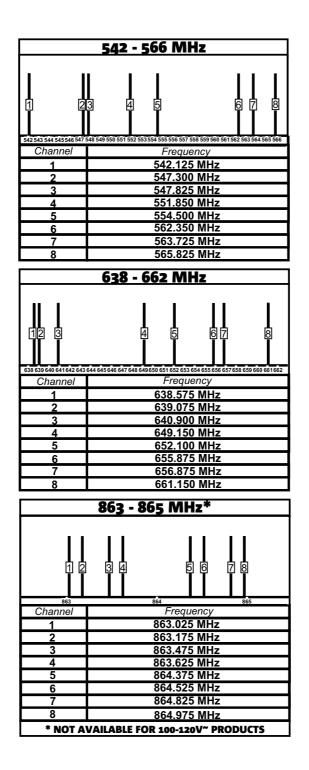






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SUMMARY TABLE OF CHANNELS AND FREQUENCIES



B-HYPE MOBILE

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CHANGE OF FREQUENCY BAND

In particular cases and when necessary, it is possible to reconfigure the transmitter-receiver frequency band. To do this you need to purchase a new transmitter and a new receiver, both operating in the new band. The 3 bands shown in the previous page could not be all available, depending on the Country of sale (refer to your authorised dealer).



WARNING!

The operation must be carried out with product turned off and disconnected from the power mains. It must be carried out by qualified personnel in order to prevent any electrostatic discharge (ESD) that could damage the product.

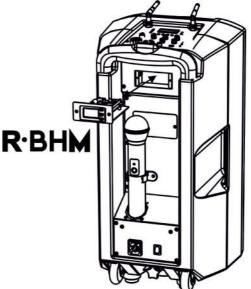
The procedure requires to replace the receiver installed on B-HYPE MOBILE and then proceed with the synchronisation with a new radio microphone that works in the new selected band. To replace the R-BHM receiver:

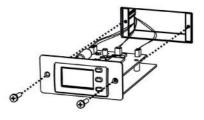
- With device off, disconnect any audio and power supply wiring.
- Loosen the 2 screws of R-BHM
- Partially remove the receiver and disconnect the three mini-connectors shown:

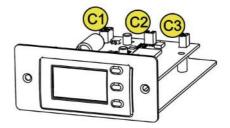
C1 - 3-pin connector (power supply-audio) C2 - 2-pin connector (antenna A) C3 - 2-pin connector (antenna B)

- Bring the new R-BHM operating in the new band closer
- Connect C1, C2, C3
- Completely insert R-BHM
- Tighten the 2 screws of R-BHM

For full functionality, synchronise the transmitter/ receiver as shown in the relevant paragraph.







3. TROUBLESHOOTING

The loudspeaker will not turn on:

- 1. Check that power supply is present upstream of the installation.
- 2. Ensure that the power supply cable with VDE connector is properly plugged in.
- 3. Check that the turning on switch is set to "ON".
- 4. If in "mobile" mode use, check that the battery is charged. If this is not the case, charge it by connecting B-HYPE MOBILE to the power mains and selecting "RECHARGE" mode.

The loudspeaker turns on but does not play an audio track:

- 1. Check that the input connections of the audio signal, as described on page 9, are carried out correctly. If present, check the visibility and pairing of Bluetooth[®] devices.
- 2. Check the cables for damage.
- 3. Ensure that the mixer or audio source is on and an output signal is present.
- 4. Check that the input levels are appropriate.

The bodypack or handheld radio microphone does not work

- 1. Check the battery status of the radio microphone (shown on the receiver display). Replace the batteries, if necessary.
- 2. Check the levels in the SECTION FOR CONNECTIONS AND CONTROL
- 3. Check and act on the receiver AF/RF levels.
- 4. Check the gain on the radio microphone.
- 5. If necessary, carry out a new synchronisation procedure on a different channel. Refer to the relevant section.

A noise or interference on the background can be heard when using the radio microphone:

- 1. Adjust the gain of the radio microphone
- 2. Act on the RF squelch parameter in the receiver
- 3. If necessary, change the transmission/reception channel (performing a new synchronisation on this channel, if necessary)

4. ACCESSORIES/SPARE PARTS

Accessories/spare parts available are:

- R-BHM Receiver module*
- BT-BHM Bodypack transmitter*
- HT-BHM Handheld transmitter (handheld radio microphone)*
- HM-BHM Black headset
- HM-BHM TAN Beige headset

* available in 3 frequency bands, according to the Country of sale:

- 542-566 MHz
- 638-662 MHz
- 863-865 MHz

Check new accessories/spare parts availability on the website www.dbtechnologies.com

5. SPECIFICATIONS

GENERAL

Туре:	Mobile 2-way loudspeaker with battery and radio microphone

ACOUSTICAL SPECIFICATIONS

Frequency response [-10dB]:	62 - 20000 Hz
Frequency response [-6dB]:	66 - 18100 Hz
Max SPL:	123 dB
HF voice coil:	1"
HF compression driver (output):	1"
LF:	10"
LF Voice coil:	1.5"
Crossover frequency (24 dB/oct):	2400 Hz
Coverage (HxV):	90° x 45°

INTERNAL BATTERY

Туре:	Li - Ion (25.9 V - 2200 mAh)
Recharge time:	approx. 4 hours
Duration in medium conditions of usage:	up to 4 hours

AMPLIFIER

Туре:	AMP SMPS
Amplification class:	Class D

B-HYPE MOBILE

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RMS amplifier power:	95 W
Peak power:	190 W

USER INTERFACE

Controls:	MIXER con livelli e selettori degli ingressi, CH1/RF priority
	mixel continent selector degli mgressi, eniziti priority

INPUTS & OUTPUTS

Inputs:	1x COMBO Input, 1x Aux (3.5 mm mini-jack), 1x stereo RCA, Bluetooth®, SD-Card slot, USB type A port
Outputs:	1x TRS line OUT
Power supply:	1x VDE

RF SECTION

Available bands:	542-566 / 638-662 / 863-865 MHz (bundle di fabbrica)
Channels selectable per band:	8
Transmission range:	fino a 35 m

POWER SUPPLY SPECIFICATIONS (ABSORPTION / INSTALLATION)

Absorption at 1/8th of power in medium use conditions (*):	0.35 A (230 V) - 0.57 A (115 V)
Absorption at 1/3rd of power in maximum use conditions (**):	0.65 A (230 V) - 1.3 A (115 V)
Absorption with speaker on in no-signal condition (idle):	16 W
* NOTE FOR INSTALLER: Values refer to 1/8th of power, under average operating conditions (music programme with occasional or no	

clipping). For any type of configuration we recommend to consider them as minimum sizing values.

** NOTE FOR INSTALLER: Values refer to 1/3rd of power, under heavy operating conditions (music programme with frequent clipping and limiter activation). In case of professional installations and tours we recommend sizing according to these values.

DIMENSIONS

Material:	Plastic cabinet
Grille:	Metal
Width:	300 mm
Height:	568 mm
Depth:	301 mm
Weight:	12,5 kg

Product features, specifications and appearance are subject to changes without prior notice. dBTechnologies reserves the right to make changes or improvements in design or manufacture without any obligation to incorporate such changes or improvements in products manufactured before their introduction.



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