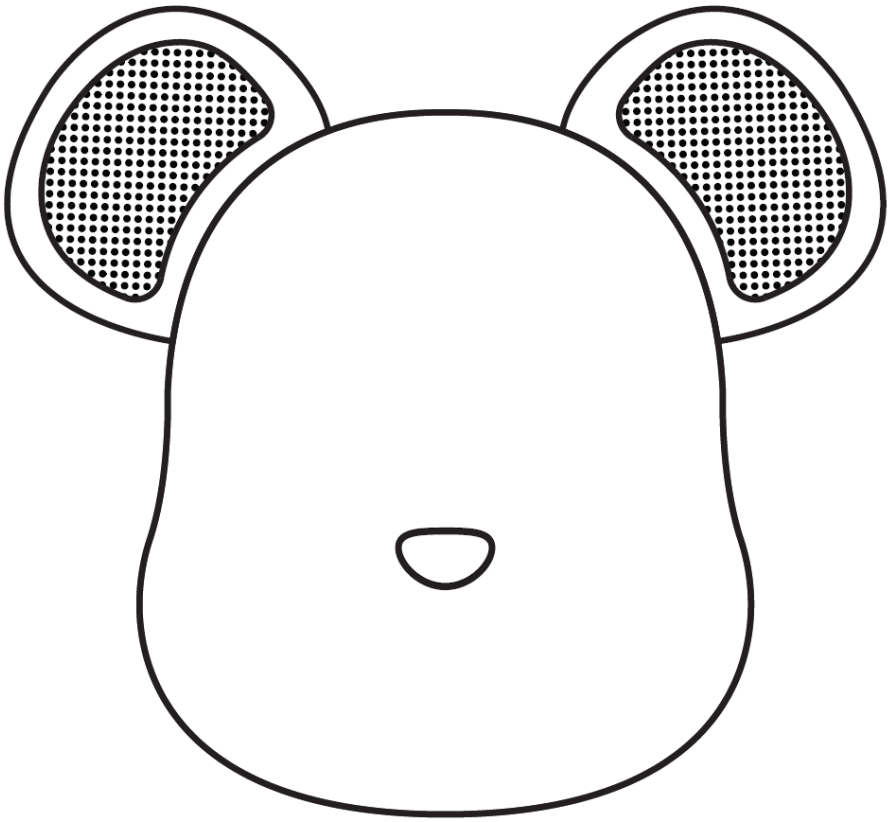
OWNERS MANUAL
Ver 0.1

BE@RBRICK AUDIO 400%



OWNERS MANUAL

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The BE@RBRICK AUDIO 400% is an exciting wireless loudspeaker system

Make your Marketing Statement here

We might want to make reference to the model number “BB4” here so we don’t have to type “BE@RBRICK AUDIO 400%” every single time we reference the speaker in the language below

Thank you for choosing ERA TOYS!

To ensure proper operation, please carefully read this owner’s manual and safety instruction before using the product. After reading this manual, be sure to keep it for future reference. (mandatory statement)

Should you have any questions about your new device please contact support at:
https://www.bearbrick.audio/support

The BE@RBRICK AUDIO family of products have advanced Bluetooth functions such as True-wireless Stereo Pairing and Dual phone pairing to enhance the sound stage and make the product useful to more then one Bluetooth source.

Trademark Notice

Bluetooth® SMART

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by ERA.TOYS is under license.

ERA.TOYS®

The ERA.TOYS® word mark and logos are registered trademarks owned by ERA TOYS Limited.

Other trademarks and trade names are those of their respective owners.

List all trademark notices associated with the bearbrick audio here!

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3-22-5 Uehara, Shibuya-ku, Tokyo 151-0064, Japan
TEL: +81(0)3-3460-3933 | FAX: +81(0)3-3460-6933

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RINARO

SOUND BY RINARO. ENGINEERED IN UKRAINE.
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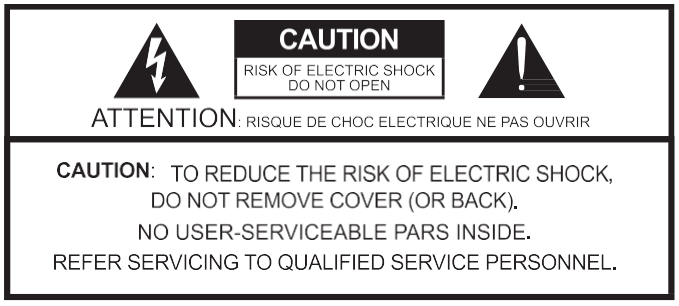
IMPORTANT SAFETY INSTRUCTIONS



This symbol alerts the user to the presence of recommendations about the product's use and maintenance.

The lighting flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated, dangerous voltage within the product enclosure that may be of magnitude to constitute a risk of electrical shock.

WARNING! This product contains magnetic material. Contact your physician if you have questions on whether this might affect the operation of your implantable medical device

This symbol Indicates safe use in non-tropical climatic conditions.

For indoor use only
This electrical equipment is designed primarily for indoor use.

WEEE
Please dispose of this product at the end of its operational lifetime by bringing it to your local collection point or recycling center for such equipment.

- WARNING: Only use attachments/ accessories specified or provided by the manufacturer (such as the exclusive supply adapter, battery, etc.)

General heed and warnings

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacture's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding plug. A polarized plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 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.
- Clean the product only with a soft and dry fabric. Never use liquid cleaning products, as this may damage the products cosmetic surfaces.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart or rack is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.
- Unplug the apparatus during lightning storms or when unused for long periods of time.

- Avoid placing the product in a location under direct sunlight or near any appliance that generates UV (Ultra Violet) light, as this may change the product surface finishing and cause a change in color.
- Audio vibrations created by the product may cause other objects to move, ensure that loose objects are not at risk of falling onto the product or persons and cause personal or object damage.
- To prevent possible hearing damage, do not listen at high volume levels for long periods.
- 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 has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Please see the bottom of the product for nameplate and electrical rating.
- CAUTION: The instructions under Service section are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.
- The maximum ambient operating temperature is 40°C

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment of and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

CAUTION! Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Canadian Statement

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

1. this device may not cause interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS-102 RF exposure, users can obtain Canadian information on RF exposure and compliance.
This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

Cet appareil est conforme aux RSS sans licence d'Industrie Canada. L'exploitation est soumise aux deux conditions suivantes :

1. **cet appareil ne doit pas provoquer d'interférences et**
2. **cet appareil doit accepter toute interférence, y compris les interférences susceptibles de provoquer un fonctionnement indésirable de l'appareil.**

L'appareil répond à l'exemption des limites d'évaluation de routine de la section 2.5 du RSS 102 et à la conformité avec l'exposition aux RF RSS-102, les utilisateurs peuvent obtenir des informations canadiennes sur les RF.

exposition et conformité.

Cet équipement doit être installé et utilisé avec une distance minimale de 20 centimètres entre le radiateur et votre corps.

CE Statement

Hereby, the Manufacturer (ERA TOYS Limited), declares that this device is in compliance with the essential requirements and other relevant provisions of Radio Equipment Directive (RED) 2014/53/EU.

. The plug of the power supply is used as the disconnect device, the socket-outlet shall
be installed near the equipment and shall be easily accessible.

. The marking is located on the bottom of the apparatus.

. CAUTION: Risk of explosion if the battery is replaced by an incorrect type.

. High or low extreme temperatures that a battery cannot be subjected to during use, storage or transportation and low air pressure at high altitude.

. Replacement of a battery with an incorrect type that can defeat a safeguard.

. Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.

. Leaving battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.

. A battery subjected to extremely low air

Battery Information

CAUTION: Risk of explosion if the battery is replaced by an incorrect type.
High or low extreme temperatures that a battery cannot be subjected to during use, storage or transportation and low air pressure at high altitude.
Replacement of a battery with an incorrect type that can defeat a safeguard.
Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
Leaving battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.

A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

NCC Statement

pressure that may result in an explosion or the leakage of flammable liquid or gas.

Without permission granted by the NCC, any company, enterprise, or user is not allowed to change frequency, enhance transmitting power or alter original characteristic as well as performance to a approved low power radio-frequency devices. The low power radio-frequency devices shall not influence aircraft security and interfere legal communications; If found, the user shall cease operating immediately until no interference is achieved. The said legal communications means radio communications is operated in compliance with the Telecommunications Management Act. The low power radio-frequency devices must be susceptible with the interference from legal communications or ISM radio wave radiated devices.

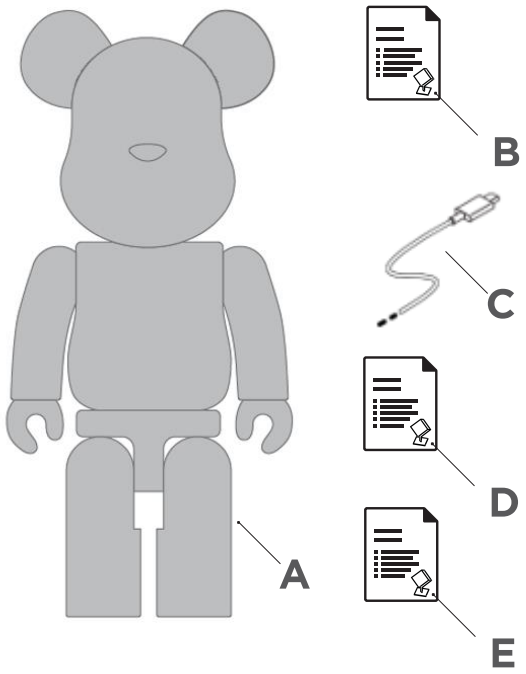
NBTC Statement

This telecommunication equipment conforms to NTC/NBTC technical requirement

Unpacking

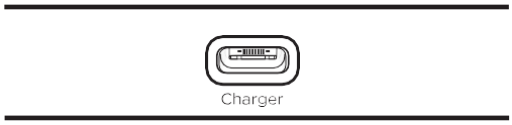
Each BE@RBRICK AUDIO 400% is built to the highest standard and thoroughly inspected before leaving the factory. Upon arrival, carefully inspect the packaging. If you find any damage, immediately notify the retailer or shipping company. Check that the following parts are supplied within the package:

A. BE@RBRICK AUDIO 400% Bluetooth Speaker
B. Quick start guide
C. 1.5M USB-C Cable
D. Safety & Warranty Information
E. Du-La Guide
F. Battery Pack
G. USB-C Fast Charger (not included)



Connectivity

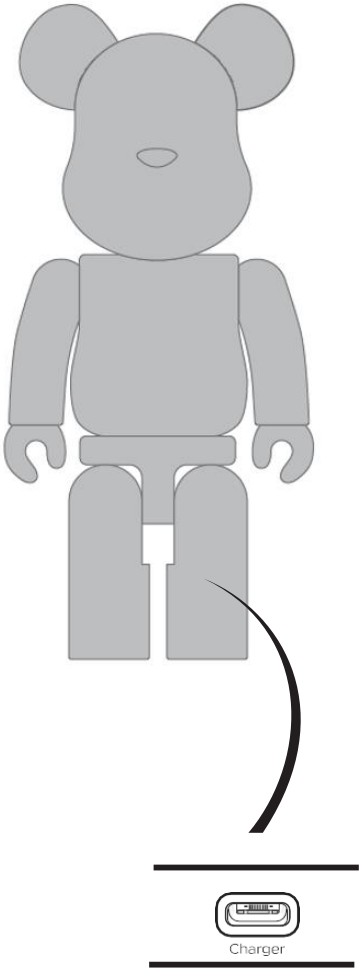
The BE@RBRICK AUDIO 400% features wireless Bluetooth connectivity. Wired digital audio and power connections can be made via the USB-C connection located on the rear face of the leg.



Getting Started

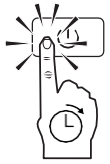
Connecting the Power

(1) Connect and appropriate USB-C, 2A fast charge cable to the charging port
(2) The charger should be capable 2A @ 5V)
** charger not included



Power Control

Press and hold the power button for 2 seconds to power ON/OFF the product

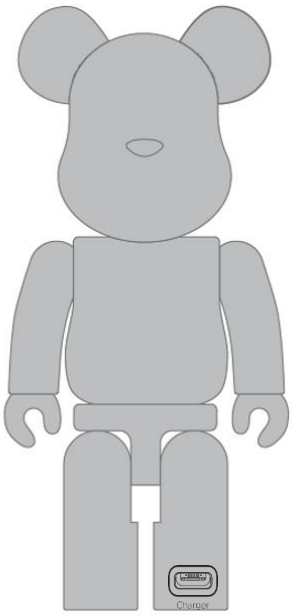


USB Audio Device

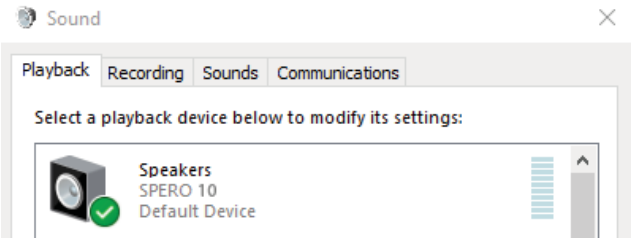
Digital Audio-In Mode

To use the BE@RBRICK AUDIO 400% supports USB audio Streaming through the USB-C power when connect to a Personal Computer.

Connect a USB-C data cable to the USB-C Port located on the rear leg of the product.



Choose the BE@RBRICK AUDIO 400% as the computers audio output / playback device in the Control Panel to enjoy 48kbps CD quality Music Streaming

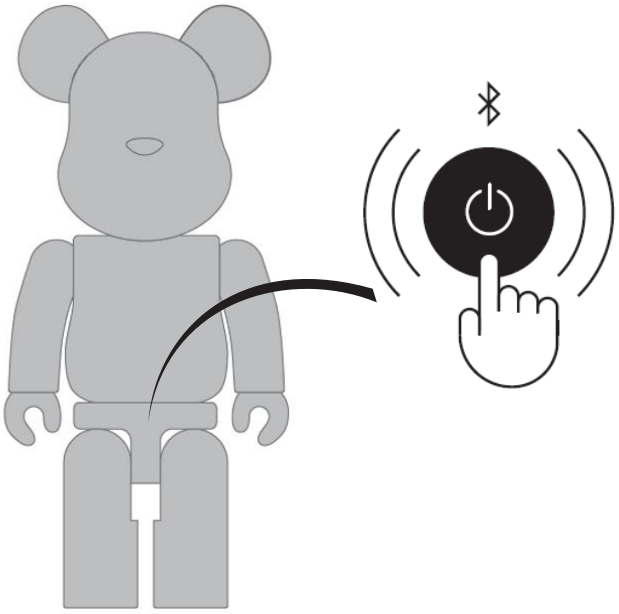


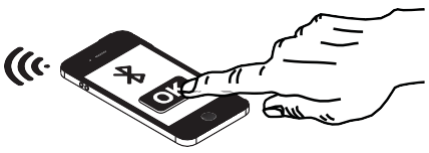
Bluetooth Mode for Music Streaming

To use the Bluetooth speaker, please follow these simple steps:

1. Make sure the speaker and your Bluetooth-enabled device such as a smartphone or tablet are no more than 1 meter (3ft) away

2. To initiate the pairing process:
   - Press the Bluetooth / Power button on the BE@RBRICK AUDIO 400%
   - Enable your mobile device's Bluetooth function and set the device to search for nearby Bluetooth devices
   - After the search is completed, select the BE@RBRICK AUDIO 400% from the Bluetooth device list



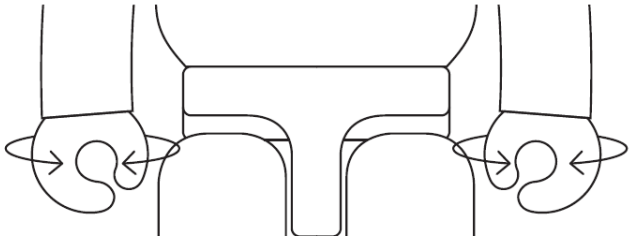


3. Once paired, the BE@RBRICK AUDIO 400% will announce the "Pairing Successful" jingle. Ensure the BB4 and your Bluetooth-enabled device are always within a 10-meter (30ft) distance to ensure stable connectivity (obstacles could shorten the wireless range)

Overview

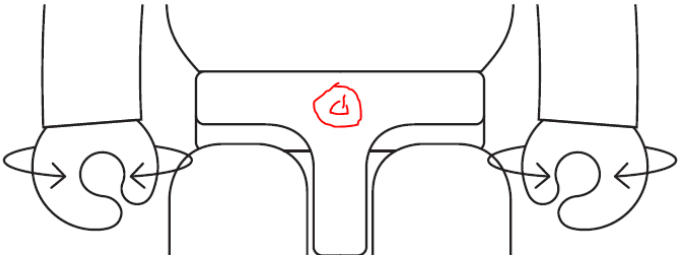
The BE@RBRICK AUDIO 400% delivers pristine sound. talk about some nice marketing words here. Enjoy!

User Controls



Track Controls

Volume Controls



Power / Bluetooth

Power Switch

Power Switch

To toggle ON/OFF the BB4
PRESS AND HOLD for 2s

When the BB4 power is turned on, it will announce the “Power On” jingle.

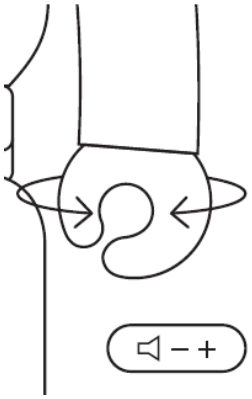
When the BB4 power is turned off, it will announce the “Power Of” jingle.

Audio Controls

Volume Increase:
Twist the Hand
Clockwise

Volume Decrease:
Twist the Hand
Counter Clockwise

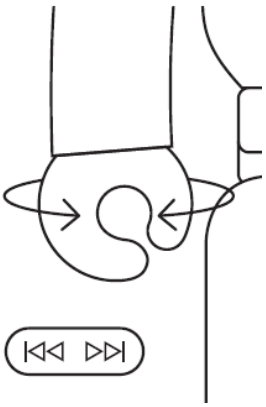
Continuous holding with auto increment the volume



Track Controls

Skip Track:
Twist the Hand
Clockwise

Previous:
Twist the Hand
Counter Clockwise



Battery Pack Installation & Removal

Make illustrations of the process

True Wireless Stereo Pairing Mode

STEREO PAIRING

The True Wireless Stereo (TWS) technology uses Bluetooth signals to enable two individual speakers to operate as a single wireless Stereo Pair.

Stereo Pairing should be initiated after first pairing one of the BB4 speakers with your preferred music device.

During the Stereo Pairing process, the speakers will “beep” every 5 seconds until they connect to one another. The BB4 will continue to attempt the stereo pairing process for 200 seconds.

When the two BB4’s successfully pair with each other, they will announce the “Successfully Pairing” jingle.

If the BB4’s are unable to connect with its companion speaker, it will exit the Stereo Pairing automatically and announce the “Pair Failed” jingle.

Enter Stereo Pairing Mode

Simultaneously twist the left and right hands inward for 3 seconds or until you hear the TWS pairing sound. Repeat this process on both speakers

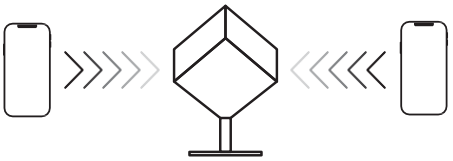
BB4 #1

BB4 #2

Exit Stereo Pairing Mode

Simultaneously twist the left and right hands outward of only 1 of the 2 bears for 3 seconds or until you hear the TWS pairing removal sound.

Bluetooth Dual Pairing



DUAL PAIRING

The BB4 supports Bluetooth multipoint technology allowing to pair up to two different Bluetooth sources to the BB4 at the same time. This allows the user to switch between two connected music sources easily.

Connect the two Bluetooth sources to the BB4 speaker one at a time.

Then to switch between sources, simply pause the audio stream on one source and start playing on the other. Only one source can stream music at a time.

Battery Level

The BB4 has a built-in visual battery level indictor located around the perimeter of the USB-C port on the rear face of the base.

The battery level is indicated by steady or breathing color indications on the USB-C charging port.

If the USB-C Fast Charger is connected, the battery level will display at all times.

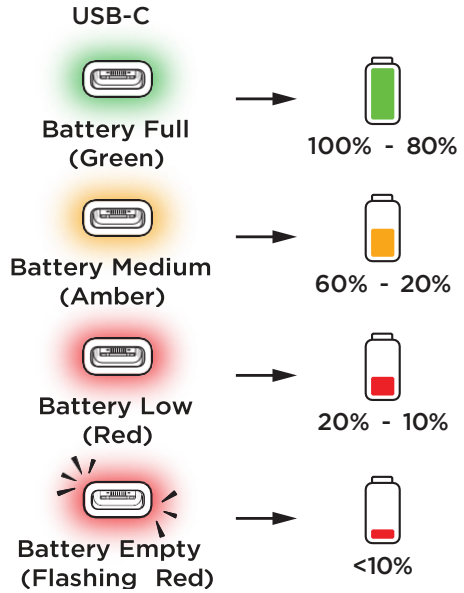
When the product is operating soley on battery

power, the battery level can be checked and viewed for 10 seconds by pressing any of the function buttons.

If the battery becomes lower then 20% it is recommended to connect the USB-C Fast

Charger and let the BB4 become fully charged before removing the charger for portable use.

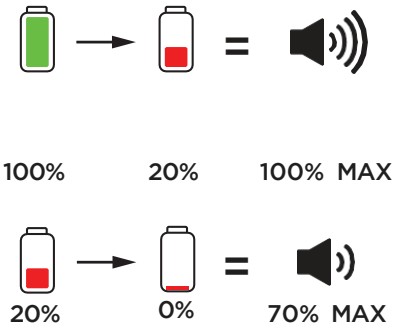
If the battery becomes lower than the allowed limit for continuous operation, the BB4 will announce “Battery Low” and automatically power off when the battery becomes completely empty.



Auto Volume Limit

In order to maximize the portable playing time, the BB4 incorporates a maximum volume limit. When the battery has fallen below the 20% remaining battery level threshold, the maximum volume will automatically be reduced to 70%.

Charging the speaker again will reset the maximum volume limit to 100%.

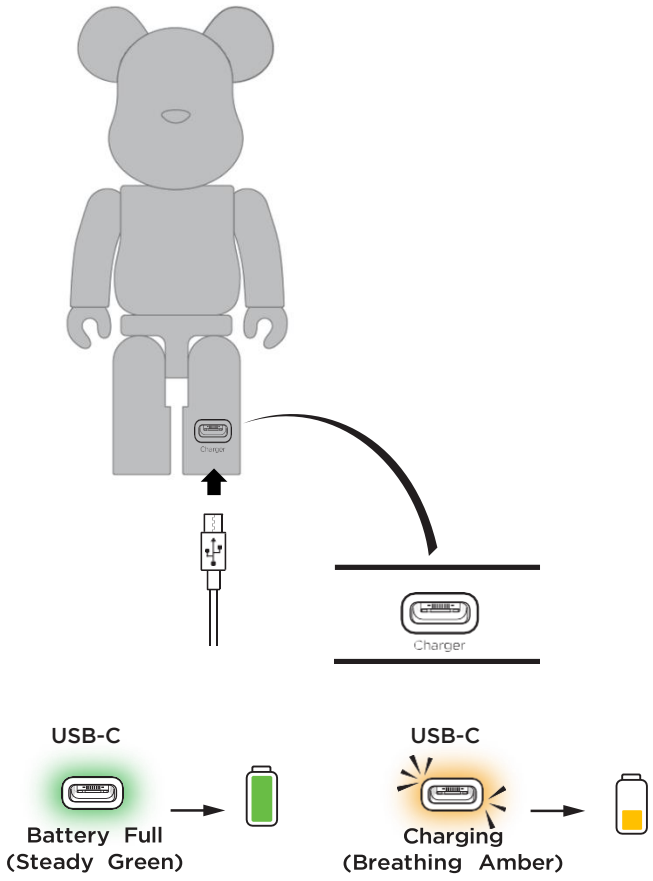


Charging

The BB4's build-in rechargeable battery allows you to enjoy and bring your music with you without wires.

To charge the BB4, supply and connect your own USB-C 2A Fast Charger. (Fast Charger and USB-C Cable are not included)

Connect the Charger



When the battery charger is connected to the BB4, the illuminated battery level indicator will breath amber color to indicate the charging is in progress.

Once the charging of the SPERO 10 has completed, the battery level indicator will glow steady green color.

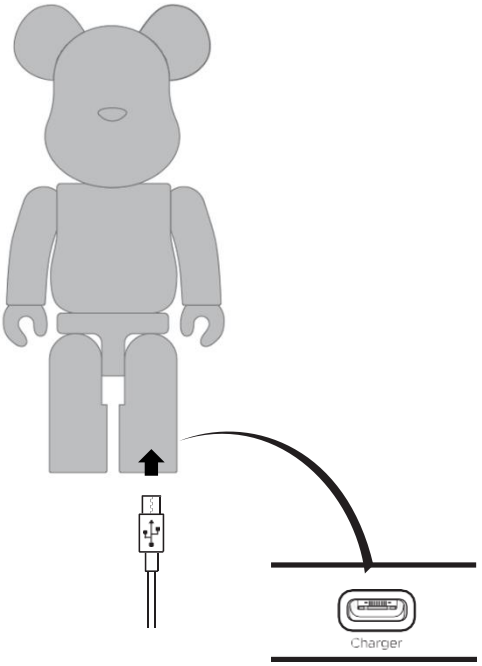
Firmware Update

The BB4's User Experience may be updated using software updates provided by ERA TOYS.

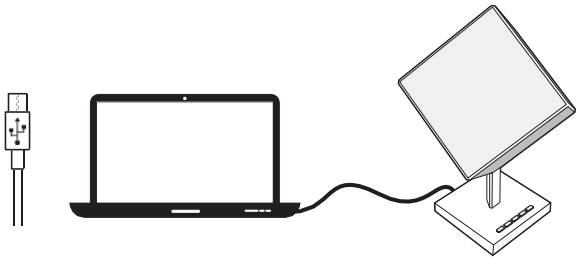
In order to update your BB4 you will need a USB-C data cable to be connected to a personal computer running Windows 10 (or higher version) and the USB Updater Program which can be downloaded from the product support page.

https://www.bearbrick.audio/support

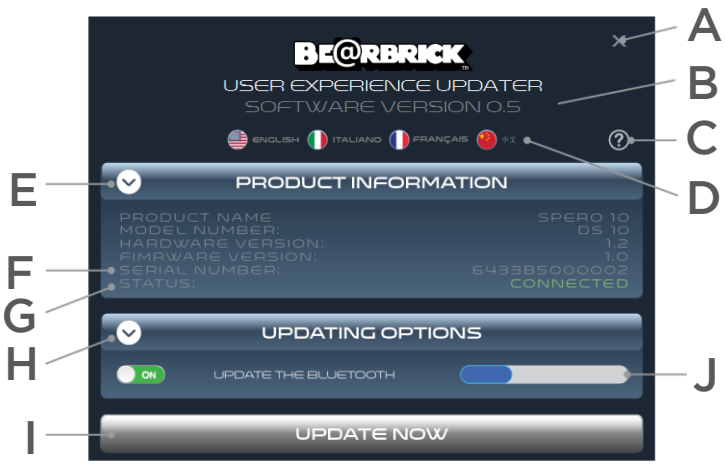
1 Connect a USB-C data cable to the charger port located on the BB4 Leg



2 Connect the USB cable to your Windows 10 or higher personal computer



3 Now you can run the User Experience Windows Updater Application.

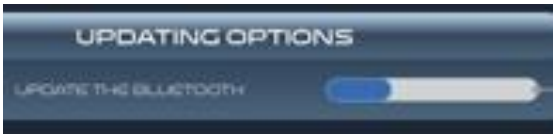


A. Exit Application Button
B. Updater Version
C. Help Page
D. Language
E. Connected Product Information
F. Registered Serial Number
G. USB Connection Status
H. Updating Preferences
I. Update Progress Bars
J Execute Update Button

4 Using the User Experience Windows Updater Application, select the specific features you wish to update then press the UPDATE Button. The Updating Process takes approximately;

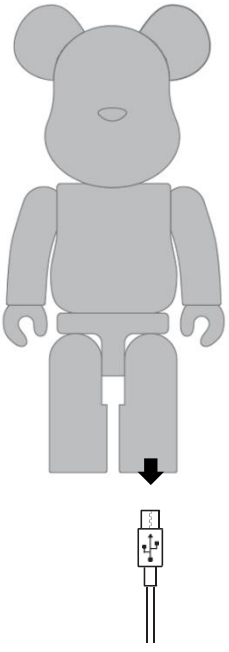
Total Time ~4.5 to 6 Minutes

5 Watch the Updating Progress on the BB4. The Blue progress bar will increase indicating the update is in progress



6 The final step requires the user to perform a manual hardware reset. Once the upload has completed the Windows Updater Application will instruct you when it is safe to remove the USB cable from the BB4. Removing the USB connection will reset the device.

(Failure to remove the USB cable will result in an incomplete update.)

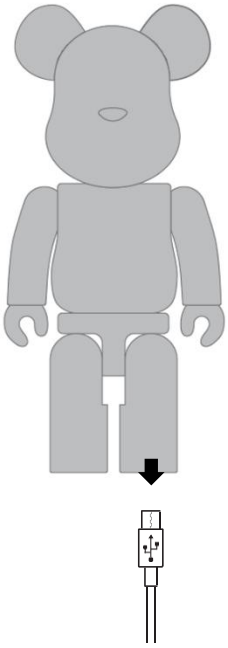


7 After removing the USB cable, you can now power on the BB4 to finalize the updating process.

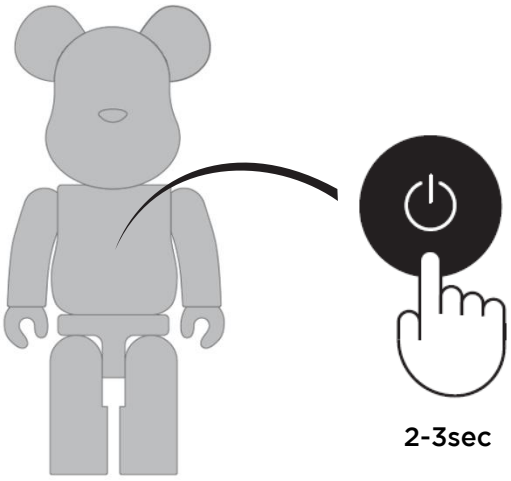
Upgrade Complete

Cancel Firmware Update

1 Remove all connections from the BB4 leg.

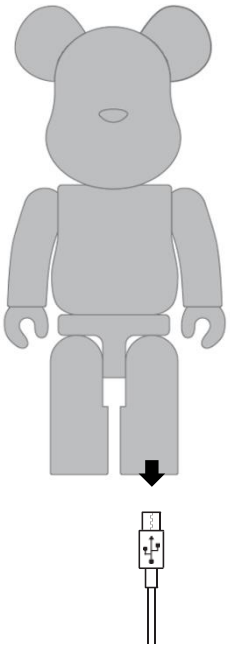


2 Power Cycle the BB4 by pressing the Power button until it resumes normal operation.

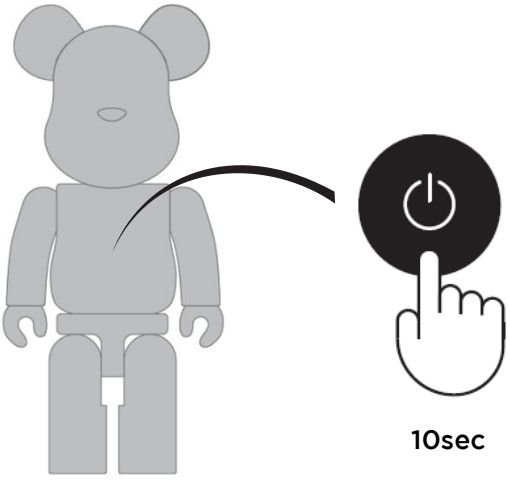


Factory Reset

1 Remove all connections from the BB4 leg and stop playing music.



2 While the BB4 is powered OFF and with all cables removed, Press and Continue to Hold the power button continuously for 10 seconds until you hear 2 tones and the BB4 automatically powers off.



3 Turn on the BB4 again and the product will return to its factory default settings.

Factory Defaults

- Clear the paired devices list
- Clear the TWS paired devices
- Reset the Default volume level
- Reset the User EQ to Optimal

Factory Reset Complete

Technical Specifications

BE@BRBRICK AUDIO 400%	
System	
Model Number	BB4
Amplifier Rated Power	20 Watt
Frequency Response	70 - 20,000 Hz ± 33dB
Max SPL	85 dB[1]
Drivers	2x 40mm Full Range 2x 20mm Tweeters
Digital input	USB-C Digital Sound Card 16-bit @ 48kbps
DSP	SigmaDSP® 50-MIPS Digital Audio Processor User Configurable 5-Band Graphic (future)
Removable Battery	BB4P28A Removable / Replaceable Lithium Ion Battery Pack 3.6V @2,800mAh, 10.3Wh
General	
Bluetooth Version	V5.0 True Wireless for Stereo Wireless Mode & Dual Phone Pairing
Bluetooth Profile	A2DP, AVRCP, SBC, AAC
Frequency band	2.400GHz - 2.483GHz ISM Band / ≤ 4dBm (Class 2)
Bluetooth Range	10 m / 30 ft (free space)
Power supply	$5V_{DC}$ @ 2A
Dimensions (WxHxD)	145(W) x 230(H) x 165(D) mm
Weight	875 gm

[1] Maximum SPL at 1 m calculated using crest factor 4 (12dB).

Service

To obtain service:

1. Please have the serial number of the unit available for reference.
2. Contact https://www.bearbrick.audio/support Please describe the problem clearly and completely to the Customer Service.
3. You will be contacted back for online servicing.
4. If the problem cannot be resolved over the phone, you may be required to send the unit in for service. In this instance, you will be provided with an RA (Return Authorization) number which should be included on all shipping documents and correspondence regarding the repair. Shipping charges are the responsibility of the purchaser.

Any attempt to modify or replace components of the device will void your warranty. Service must be performed by an authorized ERA TOY's service center.

Cleaning

Use only a soft, dry cloth to clean the housing. Do not use any solvents, chemicals, or cleaning solutions containing alcohol, ammonia, or abrasives. Do not use any sprays near the product or allow liquids to spill into any openings.

Technical Support
For additional information or support with your product please visit our website

www.bearbrick.audio.com

ERA TOYS LIMITED
HONG KONG