Technical Description And User Manual

Teufel REAL BLUE NC

Bluetooth Over-Ear Headphone

Teufel

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General Information

Notice

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Right of Return

If you wish to exercise your right of return, we ask that you make sure that you hold onto the original packaging. We can only accept the return of headphones WITH THE ORIGINAL PACKAGING. Headphones returned without the original packaging will not be accepted.

Complaints

In the event of a complaint, the invoice number is required in order for your complaint to be processed. The invoice number can be found on the sales slip (enclosed with the product) or on the order confirmation PDF document.

Thank you for your support!

For Your Safety

Proper Use

The “Teufel REAL BLUE NC” Headphone are designed for the playback of audio signals that can be wirelessly transmitted via Bluetooth® from the external player. The headphones are also suitable as a headphone for connecting to Bluetooth compatible (mobile) phones. Only use the headphones as described in this user manual. Any other use will be deemed as not in accordance with the instructions and may lead to damage to property or even persons. The manufacturer accepts no liability for damage caused by improper use. The headphones are intended for private use only.

Before operating the headphones, please first read the safety notes and user manual carefully. This is the only way to use all functions safely and reliably. Store the user manual in a safe place and also be sure to pass it on to any subsequent owner.

Safety notes

This chapter contains general safety notices. You should always observe these notices to protect both yourself and third parties. You should also observe the warning notices in each chapter of this user manual.

Explanation of terms

You can find the following signal terms in this user manual:

⚠ WARNING

This signal term indicates a moderate risk, which, if not avoided, may result in death or severe injury.

⚠ CAUTION

This signal term indicates a low risk, which, if not avoided, may result in minor or moderate injury.

NOTICE

This signal term warns you of potential damage.

This symbol advises of useful additional information.

⚠ WARNING

Danger of suffocation! Children can become trapped in the packaging film when playing and suffocate.

- Make sure that children do not play with the packaging, and that they do not pull off small parts of the headphones and put them in their mouth.

Risk in road traffic and at work! Your headphones significantly dampen external noise so that you are not entirely aware of your surroundings.

- Do not in any case wear your headphones while performing activities where you are required to pay attention to your surroundings. This particularly applies to when you are operating machinery or driving on the road. You should also observe the legal guidelines and provisions of the country which you are in when using the headphones.

Attention! Risk of explosion/ fire! Lithium rechargeable batteries can explode if handled improperly.

- Do not heat or burn the rechargeable battery. Only charge the rechargeable battery at ambient temperature of 0–45 °C. Do not use the headphones in environments where there is a risk of explosion. Do not expose batteries and rechargeable batteries to direct sunlight.

Interference caused by radio waves! Radio waves could affect the function of other sensitive devices that are not protected.

- Only use the headphones in environments where the use of Bluetooth® is permitted.

⚠ CAUTION

Extended listening at high volumes may lead to hearing loss!

- To avoid damage to your health, avoid extended listening at high volumes.
- If the headphones are set to full volume, it may produce very high sound pressure. This might have psychological consequences and also cause physical injury. Children are especially at risk. Set the volume control of your player to low volume before you turn it on.

NOTICE

Risk of damage! Improper handling of the headphones may result in damage.

- Ensure that the headphones do not become wet, and protect them from moisture, heat (e.g. during the summer in cars) and mechanical influences (e.g. severe shocks, pressure and falling).

Disposal

Important information in accordance with the Electrical and Electronic Equipment Act (Germany: ElektroG)

We advise owners of electrical and electronic appliances that old electrical and electronic devices must be handed in separately from municipal waste, in accordance with the applicable regulations. Batteries and rechargeable batteries that are not firmly enclosed in old electrical devices and lamps, and that can be removed from the old device without destroying them, must be separated from them in a non-destructive manner before they are handed to the collection point for their intended disposal. Please take note of our information on the Batteries Act (Germany: BattG) below for disposing of batteries.

You make an important contribution to returning, recycling and further processing of old devices if you separate your old devices into the correct collection groups for recycling.

The symbol below of a crossed-out dustbin, applied to electrical and electronic appliances, also advises of the duty to separate collections:

Consumer electronics stores and supermarkets are obliged, under certain conditions, to take back old electrical and electronic devices, in accordance with section 17 of the Electrical and Electronic Equipment Act. Stationary retailers must take back an old electrical device of the same type when a new electrical device is bought (1:1 return). This also applies to home deliveries. These retailers must also take back up to three small old electrical devices (⩽ 25 cm) without this being linked to a new purchase (0:1 return).

In accordance with the Electrical and Electronic Equipment Act, as online retailers of electrical devices and due to our product range, our obligation is limited to 1:1 return of large devices of > 50 cm when selling a new electrical or electronic device of the same type. We comply with the obligation of return of devices other than large devices through our service provider. You can find the exact contact data and collection points on our website www.teufel.de/entsorgung. It is also possible to return old electrical and electronic appliances free of charge at an official delivery point run by the public waste disposal authorities.

Important: For safety reasons we ask that you refrain from sending lighting fixtures (some lamps). For return of lighting fixtures please use the public waste disposal collection points or contact us directly at www.teufel.de/entsorgung.

As an end-user, you are responsible for deleting any personal data on old electrical appliances before handing it in.

Important: Our appliances can contain batteries/rechargeable batteries. If this is the case, please refer to its attached product documentation for additional information on the type and chemical make-up of the battery. For products with battery compartments you can directly remove the batteries or rechargeable batteries and dispose of them properly. If the batteries are built in to the product, do not in any case attempt to remove the batteries yourself, instead contact one of our employees or appropriate specialist staff.

Important information about the Batteries Act (Germany: BattG)

Batteries and rechargeable batteries must not be disposed on in household waste.

Old batteries can contain toxic substances that could damage the environment or your health if not stored or disposed of properly. This applies especially to improper handling of batteries containing lithium.

However, batteries also contain important raw materials such as iron, zinc, manganese and nickel and these can be reused. Separate collection enables recycling of these raw materials and avoids any negative impact on the environment or human health due to toxic substances being released.

The crossed-out dustbin symbol means that you should not dispose of old batteries and rechargeable batteries in household waste. In addition, you, as the end-user, are legally obliged to return old batteries.

You can hand in batteries and rechargeable batteries free of charge at an official return point such as any public waste disposal collection point. You can also hand in old batteries, that we stock or have stocked as new batteries, at one of our Teufel stores or at one of our dispatch warehouses. However, if you send them to our dispatch

warehouses we would like to point out the dangerous goods regulations of the dispatch provider you opt for and ask you not send batteries to us by post. You can get the addresses of our dispatch warehouses from our customer service.

Due to existing legal regulations, the battery manufacturer must use the following symbols with the following meanings when marking the batteries.

Hg: the battery contains more than 0.0005 mass percent of mercury

Pb: the battery contains more than 0.004 mass percent of lead

Cd: the battery contains more than 0.002 mass percent of cadmium

Otherwise, to avoid waste and littering, batteries with a long service life or rechargeable batteries should be used. Exchangeable rechargeable batteries enable long service for electrical and electronic appliances and thus devices and rechargeable batteries can be prepared for recycling (e.g. regenerating/ exchanging rechargeable batteries).

Further information on preventing waste for consumers can, however, be found in the Federal waste prevention programme with the participation of the Federal states.

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Qualcomm® aptX™ is a product of Qualcomm Technologies International, Ltd.

1. Introduction

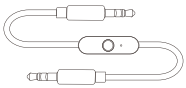
Thank you for purchasing the Teufel REAL BLUE NC Bluetooth Headphone, which is your reliable everyday over ear active noise cancelling headphone that delivers your music via Bluetooth with technical appeal, high comfort & functionality. Hear only what you want to – without distraction, ensured by Active Noise Cancellation including Transparency Mode.

2. What's in the box

Unpack the box carefully and ensure that the following parts are included. If any part is damaged or missing, do not use it and contact your retailer or customer service representative.

Headphone

USB-C Charging Cable

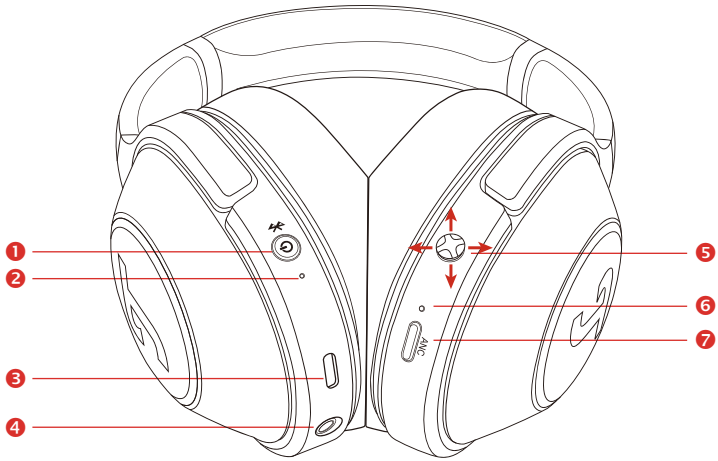


3.5 mm Cable

Quick Start Guide & Safety Book

3. Product overview

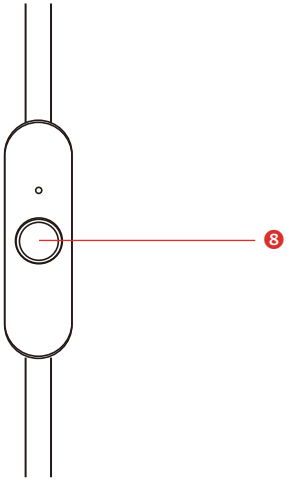
3.1 Headphones



The User Interface of “Teufel REAL BLUE NC” has the following elements:

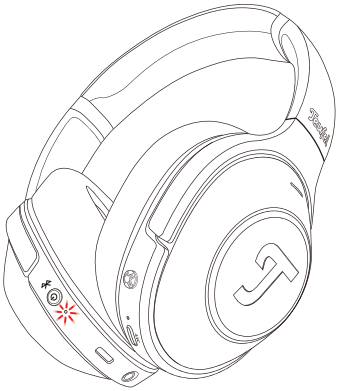
	Name	Description
1	Power Button	Press and hold for 2 seconds to switch the headphones on/off. Short press to see the battery status. Double press to enter Bluetooth Pairing Mode.
2	Status LED	Shows battery level, charging level or operation status.
3	USB-C	Port for USB-C charging cable connection.
4	Aux In	Port for 3.5mm audio cable connection.
5	Joystick	Push upwards, downwards, sideways or press at the centre for playback controls, handling phone calls or voice assistant.
6	ANC/ Transparency LED	Lights up in green when ANC is switched on by pressing the ANC/Transparency Button. Lights up in white when Transparency Mode is switched on.
7	ANC/ Transparency Button	Short press to switch between ANC/Transparency mode. Press and hold for 2 seconds to turn ANC/ Transparency Mode off.

3.2 In-Line Remote Control



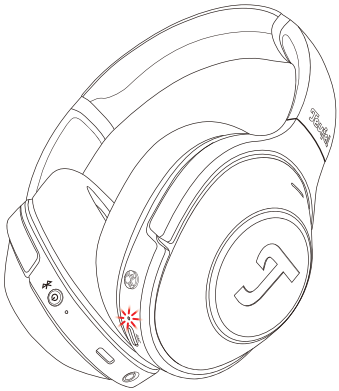
8. In-Line Remote Control

3.3 Headphone LED indications



During use, LED **2** doesnot illuminate unless there is a change in operation status. Refer to the table below for the most frequent LED indications.

Status LED **2** (left earcup)	Status
Fast flashing in red	Battery level is low, please charge your headphones.
Fast flashing in blue	Bluetooth Pairing Mode, the headphones can be connected with a new device.
Pulsing in blue	Ready for connection with a previously connected device (connectable mode). You can reconnect from the Bluetooth list of your smart device.
Solid blue for 10 seconds	Bluetooth connection is successful.
Flashing blue twice	The device list (memory) on the headphones is cleared.
Flashing white once	A call has been answered, rejected or ended. Voice assistant has been activated/deactivated. Playback has started. Track has been skipped. Volume has been changed.
Pulsing in white	Playback is paused or sound output is muted.
Fast flashing in purple	ShareMe Pairing Mode, the headphones can be connected with another pair of ShareMe enabled headphones.
Solid purple for 10 seconds	Successful ShareMe connection.



During use, LED **6** doesnot illuminate unless there is a change in operation status. Refer to the table below for the most frequent LED indications.

Status LED **6** (right earcup)	Status
Solid green for 10 seconds	ANC Mode is on (By pressing the ANC button, you can switch the mode and see the LED color)
Solid white for 10 seconds	Transparency Mode is on (By pressing the ANC button, you can switch the mode and see the LED color)

4. Getting started

4.1 Powering on & off

Press and hold the power button **1** for 2 seconds to switch on or off the headphones.

The headphones will automatically switch off after 10 minutes without audio signals or user operation.

You can change the auto-off timer in the Teufel Headphones App.

4.2 Connecting with the headphones

1. Press and hold the power button **1** for 2 seconds to switch on the headphones.
2. If the device list (memory) of the headphones is empty (there are no previously connected devices), the LED **2** will flash blue quickly. The headphones are now in the Bluetooth pairing mode and you can hear a repeating system sound.

NOTICE

If the device list of the headphones is not empty (there are previously connected devices), the LED will pulse blue. The headphones are now in the connectable mode for automatic connection with previously connected devices if they are within the Bluetooth range (10 m). If you want to pair with a new device, double press the power button to activate the Bluetooth pairing mode.

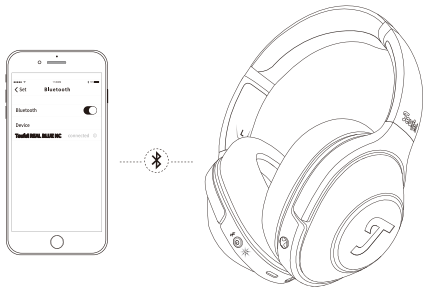
3. Activate the Bluetooth feature on your device and select "Teufel REAL BLUE NC" from the list of available devices. The LED will illuminate in blue for 10 seconds when pairing is successful. You can also hear a system sound.

NOTICE

Bluetooth mode only works if no connector cable is connected to the 3.5 mm jack. As soon as the connector cable is connected, Bluetooth mode will be deactivated.

The headphones remember your last 7 paired devices and automatically connect with them when they are within the Bluetooth range (10 m).

To clear the device list, press and hold the power button 1 for 8 seconds while the headphones are switched off until you see the LED flashes blue twice.



4.3 Information on the Bluetooth wireless connection

The headphones are compatible with Bluetooth 5.0.

If your audio source supports high-resolution audio encoding methods SBC, AptX, AAC, it will automatically play high audio quality music.

The paired devices immediately establish the Bluetooth wireless connection after switching on and are ready for use.

When you switch the headphone on, they automatically try to connect to the last connected Bluetooth device.

4.4 Teufel Go App

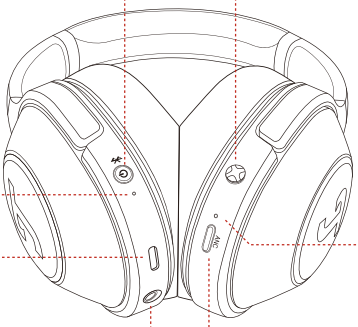
The headphone will come with an iOS and Android app that allow for the following functions:

- User configurable EQ and preset selection
- ShareMe Control
- Display of Battery Level
- ANC Setting
- Transparency Setting
- Disable Voice Assistant trigger
- Disable/set time for auto-off
- Software Update

Available on the App Store

GET IT ON Google Play

5. How to use



Power Button 1
2 sec On/Off
Battery Status
BT Pairing (Double press while powered on)
8 sec Clear Device List

Status LED 2
Shows battery level or operation status

USB C 3
Charging

AUX IN 4

Joystick 5
Play/Pause
Start Voice Assistant 2 sec
Stop Voice Assistant
Accept/End Call
Reject Call 2 sec
ShareMe PC ((Press power button and joystick simultaneously)
Vol Up
Vol Down
Previous
Next

ANC/Transparency LED 6
Green: ANC Mode
White: Transparency Mode

ANC/Transparency Button 7
Switch between ANC On/Transparency On
ANC & Transparency Off/
Last active Mode On 2 sec

INTERACTION LEGEND

●	Single Press
●●	Double Press
2 sec	Middle Press
8 sec	Very Long Press
↑	Push Joystick Up
↓	Push Joystick Down
←	Push Joystick Left
→	Push Joystick Right
PC	Press Combination with Power Button

5.1 ShareME

The Teufel REAL BLUE NC is equipped with ShareMe™ feature and can share music between two sets of Teufel REAL BLUE NC headphones wirelessly and simultaneously.

1. Establish a Bluetooth connection on the first set of headphones.
2. Start music playback on the first set of headphones.
3. Press the power button **1** and the center button of Joystick **5** at the same time on the first set of headphones. The LED **2** flashes purple quickly and the headphones will emit a repeating system sound. The first set of headphones is now ready to connect to the second set of headphones.
4. Switch on the second set of headphones and then press the power button **1** and the center button of Joystick **5** at the same time. The LED flashes purple quickly and the headphones will emit a repeating system sound.

NOTICE

Make sure that the music is paused on the second headphone if it is already connected to a smart device.

5. When connection of the two sets of headphones is successful, both sets of headphones will emit an system sound and the LED will illuminate in purple for 10 seconds. The music on the first set of headphones will then be shared with the second set. Playback controls can be done on either set of headphones.
6. To end music sharing, press the power button **1** and the center button of Joystick **5** at the same time on either set of headphones. Both sets of headphones will emit an system sound when music sharing is ended.

5.2 ANC and Transparency Mode

ANC

Quietly enjoy your music while in a constantly noisy environment. The LED **6** lights up in green when you switch to ANC on by pressing the ANC/Transparency Button. To switch ANC off, please press and hold the button for 2 seconds. If you want to use ANC while no music is playing, please set the Auto-Off Timer to “Never” in the Teufel Headphones App.

Transparency

Hear your surrounding while you are wearing the headphons. The LED **6** lights up in white when you switch to Transparency on by pressing the ANC/Transparency Button.

During calls, you can use Transparency Mode to hear your own voice.

5.3 Using the headphones to make phone calls

The Teufel REAL BLUE NC features a built-in microphone. If the headphones are connected to your smartphone via Bluetooth, they can be used as a headset for making phone calls.

Music playback will be interrupted in the event of an incoming call and resumed once the call is over.

The following functions are available:

Function	Operation
Accept incoming call / end the call	Shortly press on the center of the Joystick
Reject incoming call (First or second call)	Press and hold the center of the Joystick for 2 seconds
Put current call on hold and answer the second call	Double press the center of the Joystick
Switch between two calls	Double press the center of the Joystick

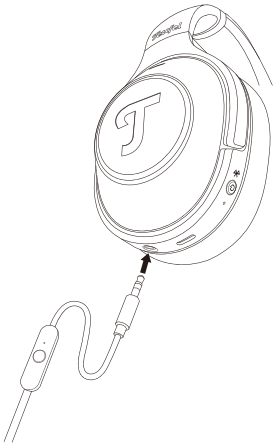
5.4 Using the voice assistant

The Teufel REAL BLUE NC features a built-in microphone. If the headphones are connected to your smartphone via Bluetooth, press and hold the center of the joystick for 2 seconds to enable your voice assistant (when not making a phone call).

5.5 Reset

If you want to reset your headphones to default settings, press and hold the power button and ANC button simultaneously for 4 seconds. The LED **2** alternates flashing in red and blue during the reset and fades out when the reset is completed. Please note that during reset, the Bluetooth device list will be cleared and personal settings made in the Teufel Headphones App will be deleted.

5.6 Using the connector cable



Connecting the cable

1. The enclosed connector cable has two 3.5 mm jack plugs. Insert the notched 3.5 mm jack plug into the AUX In 3.5 mm jack **4** of the headphones. Make sure the cable remote control is closer to the

headphones than to your audio system or smartphone.

2. Connect the other jack plug of the connector cable to the 3.5 mm jack of your audio system or smartphone.
3. To disconnect the connector cable from the headphones, gently pull the jack plug away from the AUX In 3.5 mm jack.

NOTICE

The Bluetooth function will automatically end once the headphones are connected via the 3.5 mm jack plug.

Using the remote control

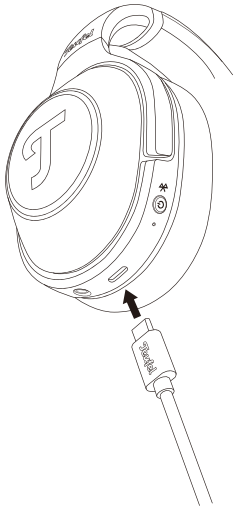
The remote control on the connector cable features a built-in microphone and a control button for making phone calls and controlling music playback.

The following functions are available:

Function	Operation
Pause or resume	Press the control button once
Skip to the next track	Press the control button twice
Skip to the previous track	Press the control button three times
Accept incoming call/end the call	Press the control button once
Rejecting incoming call	Press the control button for 2 seconds
Put current call on hold and answer the second call	Double press the control button
Switch between two calls	Double press the control button

6. Charging

To check the current battery level of your headphones, shortly press the power button. The status LED **2** will light up and show the current level for 10 seconds. The LED color will be white at 60% - 100% and yellow at 21% - 59%. When the LED is repeatedly flashing in red, the battterylevel is at 1%-20% and the headphones need to be charged. You will also hear a system sound when the battery is low.



Use the enclosed type-c cable to connect the USB-C port **3** of the headphones with a USB port on a PC or a USB power adapter.

As soon as the rechargeable battery has been fully charged, unplug the type-c cable from the USB-C port of the headphones. The LED will turn off.

Battery status during charging	LED **2**
1-20%	Flash Red
21-59%	Flash Yellow
60-99%	Flash White
100%	Solid on White for 3 seconds

7. Care and maintenance

7.1 Cleaning

Clean the ear cushions and the headband with a soft dry cloth. Never use aggressive cleaning agents as they may damage the sensitive surface.

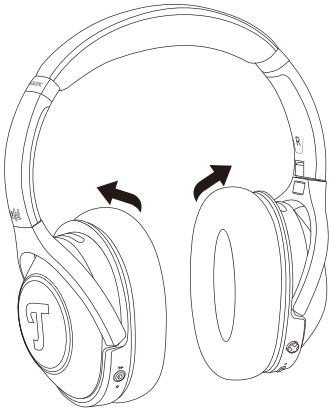
7.2 Handling

Put your headphones on so that both ears are firmly covered.

If necessary, adjust the headband length to your head size.

7.3 Storage

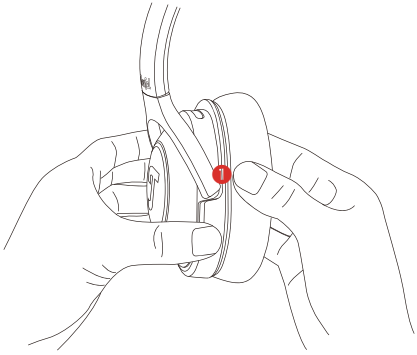
Fold the headphones up for space-saving storage.



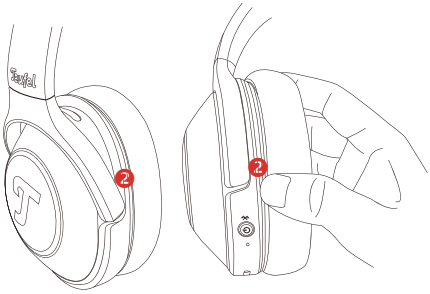
Use the enclosed storage bag to store and transport the headphones and the accessories.

Store the headphones in a clean and dry location.

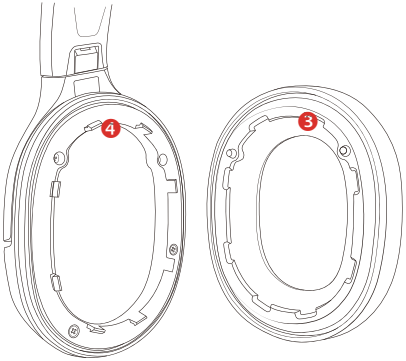
7.4 Changing ear cushion



Please hold the auricle firmly with one hand (1) during the change, as the swivel joint could break if too much pressure is applied.



Start at the top of the cushion (2) and then go between the cushion and the headset, for example, with the thumb nail of your thumb. In this way you can remove the cushion step by step.



Please be careful not to make any twisting movements, as the protrusion inside the headset could possibly be damaged.

When fitting the new cushion, please check that it is in the correct position - notch (3) in the ear cushion and protrusion (4) on the headset serve as positioning aids. Simply start there and then carefully clip in the complete cushion.

NOTICE

The products, batteries and ear cushions should be taken to separate waste collection points designated by local authorities at the end of the lifespan. This will ensure that EEE waste is recycled and treated in a manner that conserves valuable materials and protects human health and the environment.

8. Troubleshooting

Common solutions

If you experience problems with your headphone:

1. Check the state of the power indicators.
2. Charge the battery.
3. Increase the volume on your mobile device.
4. Try connecting another mobile device.

If you cannot resolve the issue, see the table below to identify symptoms and solutions to common problems. If you are still unable to resolve your issue, contact Teufel customer service.

Symptom	Solution
Headphone don't power on	Plug the USB C cable to charge the headphone.
Headphone don't connect with mobile device	Make sure your mobile device supports Bluetooth technology. On your mobile device: Turn the Bluetooth feature off and then on. Delete your Teufel REAL BLUE NC headphone from the Bluetooth list on your mobile device. Connect again. Move your mobile device closer to the headphone and away from any interference or obstructions. Connect a different mobile device. Clear the headphone pairing list and connect again. To clear the BT device list, press and hold the power button **1** for 8 seconds while the headphones are switched off.

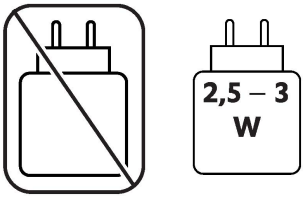
Symptom	Solution
No sound	Press Play on your mobile device to make sure the audio track is playing. Increase the volume on the mobile device. Move your mobile device closer to the headphones (10 m) and away from any interference or obstructions. Use a different music source. Connect a different mobile device.
Poor sound quality	Make sure that headphones fit securely over your ear. Use a different music source. Try connecting another mobile device. Move your mobile device closer to the headphones (10 m) and away from any interference or obstructions.

9. Technical Data

Driver Size:	40 mm full range drivers
Max Level during BT playback:	< 100 dB(A) (According to EN-50332)
Sensitivity (analog in):	WBCV (Wide band characteristic voltage) ⩾ 75 mV Input @94 dB(A) (EN50332-2)
Acoustic THD:	⩽ 5% @1 mW (100 Hz–3 kHz)
Frequency range:	10 Hz – 20 kHz
Battery:	Lithium-Polymer, 3.7 V, 700 mAh
Radio network:	Bluetooth®
Frequency bands in MHz:	2400 – 2483.5
Transmission power in mW/dBm:	< 10 mW/< 10 dBm

You can find further technical data on our website.

Technical changes reserved!



The power delivered by the charger must be between min 2,5 Watts required by the radio equipment, and max 3 Watts in order to achieve the maximum charging speed.

10. Declaration Of Conformity

CE Lautsprecher Teufel GmbH declares that this product complies with Directive 2014/53/EU. The full text of the EU declaration of conformity can be found at these Internet addresses:
www.teufel.de/konformitaetserklaerungen
www.teufelaudio.com/declaration-of-conformity

Please contact our customer service department with any questions, suggestions, or complaints:

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