

Technical Description and User Manual



REAL BLUE

REAL BLUE PRO

Teufel

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General Information

Notice

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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!

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.

For Your Safety

Proper Use

The “Teufel REAL BLUE PRO” 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.

Trademarks

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

1. Introduction

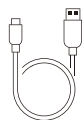
Thank you for purchasing the Teufel REAL BLUE PRO Bluetooth Headphone, which is your reliable everyday over ear active noise cancelling headphone that delivers your music via Bluetooth with technical appeal, high comfort & functionality. Hear only what you want to – without distraction, ensured by Active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

2. What's in the box

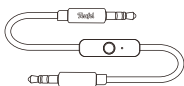
Unpack the box carefully and ensure that the following parts are included. If any part is damaged or missing, do not use it and contact your retailer or customer service representative.



Headphone



USB-C Charging Cable



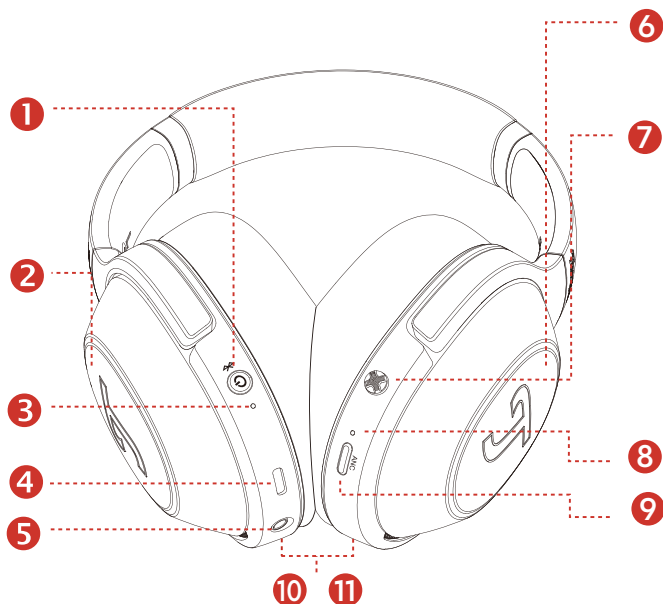
3.5 mm Cable



Quick Start Guide & Safety Book

3. Product overview

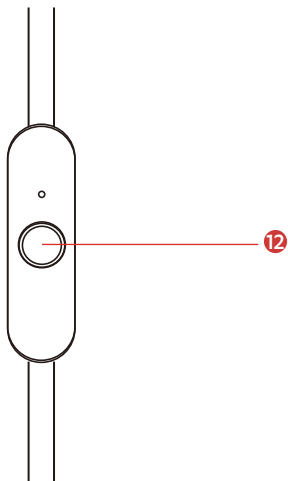
3.1 Headphones



The “Teufel REAL BLUE PRO” consists of the following elements:

- | | |
|-------|--------------------------|
| 1 | Power Button |
| 2&6 | Tap Sensor Panel |
| 3 | Status LED RGB |
| 4 | USB C |
| 5 | AUX IN |
| 7 | Joystick |
| 8 | ANC/Transparency LED RGB |
| 9 | ANC Button |
| 10&11 | Wear Detection |

3.2 In-Line Remote Control



12 In-Line Remote Control

3.3 Headphone LED indications



During use, LED **3** does not illuminate unless there is a change in operation status. Refer to the table below for the most frequent LED indications.

Status LED 3 (left earcup)	Status
Slow 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. Dynamore On.
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 **8** does not illuminate unless there is a change in operation status. Refer to the table below for the most frequent LED indications.

Status LED 8 (right earcup)	Status
Solid cyan for 10 seconds	ANC High Mode is on (By pressing the ANC button, you can switch between ANC levels and see the LED color)
Solid green for 10 seconds	ANC Mid Mode is on (By pressing the ANC button, you can switch between ANC levels and see the LED color)
Solid lime green for 10 seconds	ANC Low Mode is on (By pressing the ANC button, you can switch between ANC levels and see the LED color)
Solid white for 10 seconds	Transparency Mode is on (By double tap on the touch panel, you can switch to Transparency Mode On and see the LED color)
Solid grey (low brightness) for 10 seconds	Off Mode (By pressing and holding the ANC button for 1.5 seconds, you can switch off ANC and Transparency Modes and see the LED color)

Note: Transparency mode can be also tuned on by pressing ANC button after ANC high-mid-low.

4. Getting started

4.1 Powering on & off

Press and hold the power button **1** for 1.5 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 1.5 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 **3** 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.

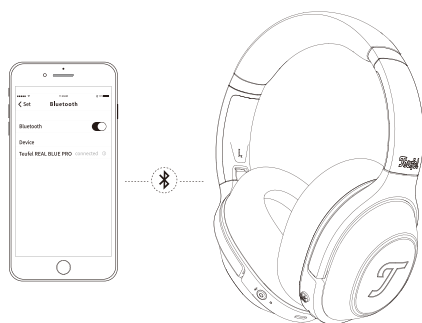
3. Activate the Bluetooth feature on your device and select “Teufel REAL BLUE PRO” from the list of available devices. The LED will illuminate in blue for 10 seconds when pairing is successful. You can also hear a system sound.

NOTICE

Bluetooth mode only works if no connector cable is connected to the 3.5 mm plug. 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 5.1.

If your audio source supports high-resolution audio encoding methods SBC, AptX, AptX HD, AptX LL, 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.

During Bluetooth operation with specific mobile phones, it can be possible that audio latency effects would be audible.

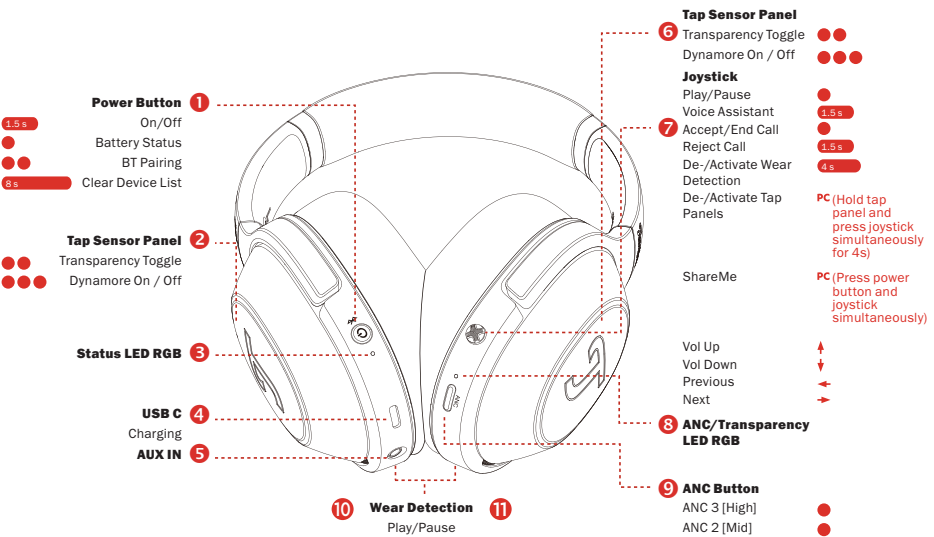
4.4 Teufel Headphones App

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

- User configurable EQ and preset selection
- Sound personalization with Mimi hearing test
- ANC and Transparency setting
- Dynamore and Dynamic Bass setting
- ShareMe control
- Configuration of tap panels and ANC button
- Disable Voice Assistant trigger
- Configure auto-off time



5. How to use



INTERACTION LEGEND

●	Short Press
●●	Double Press
●●●	Triple Press
1.5 s	Middle Press
4 s	Long Press
8 s	Very Long Press
↑	Move Joystick Up
↓	Move Joystick Down
←	Move Joystick Left
→	Move Joystick Right
PC	Press Combinanon

In-Line Remote Control

Play/Pause	●
Previous	●●●
Next	●●●
Accept Call	●
End Call	●
Reject Call	1.5 s

Teufel Headphones App

Commands for the Tap Sensor Panels and the ANC Button can be configured using the Headphones App.

5.1 ShareME

ShareMe enables simultaneous wireless music-listening among 2 Real Blue Pro. With one of your headphone connected to Bluetooth device, please follow below steps:

1. Press the Power Button **1** and Center Button of the Joystick **7** simultaneously, the LED fast flashing purple.
2. Start ShareMe on another headphone by press the Power Button **1** and Center Button of the Joystick **7** simultaneously, when the two headphones connect, the LED solid on purple for 10 seconds.
3. Press the Power Button **1** and Center Button of the Joystick **7** simultaneously when ShareMe active to disconnect the ShareMe.

5.2 ANC and Transparency Mode

ANC Mode



Peacefully enjoy your sound in a constantly noisy environment. When you switch ANC On by short pressing the ANC Button **9**, the LED **8** lights up when you shift between 3 levels and Transparency Mode: ANC High (Cyan), ANC Mid (green), ANC Low (Lime green) and Transparency (White). To switch ANC off, please press and hold the ANC button **9** for 1.5s and the LED **8** will light up in grey (low brightness). You can reduce the number of modes for the ANC button in the Teufel Headphones App and thus switch through your favorite modes faster.

Transparency Mode

Listen to your favorite content while hearing the most relevant sounds from the outside world. The LED **8** lights up in solid white for 10 seconds when you double tap the touch panel **2** or **6**. You can also short press ANC button **9** to switch to Transparency Mode. External sounds are mixed to the music and you can hear conversations or announcements. During calls, you can use Transparency Mode to hear your own voice. Afterwards, double tap again on the tap panel **2** or **6** to quickly switch back to your previous mode.

Dynamore® Headphones

Dynamore is a technology developed by Teufel. It dynamically enhances the stereo image, creating a wide soundscape. When you triple tap the touch panel **2** or **6**, you can switch Dynamore on and the status LED

pulses once in white. When you triple tap again, Dynamore switches off and the status LED pulses twice in white.

5.3 Wear Detection and Hearing Correction

Wear Detection

The playback will pause when both sides are taken off and play again when both sides are back on. You could disable or enable the Wear Detection function in Teufel Headphones App.

- When the supplied headphone cable is connected to the headset, the wear detection does not work.
- Automatic music playback and resume by wear detection is only available with a Bluetooth connection.
- The connected device or playback application may not support automatic music playback pause and resume by wear detection.
- When putting on and taking off the headset, the call is only switched over if the automatic switch-off by detecting the touchdown is activated.

Mimi Sound Personalization

Test your unique hearing with Mimi to further personalize your sound in the Teufel Headphones App.

How to Charge

Use the enclosed type-c cable to connect the USB-C port **4** of the headphone with the USB port on a PC or a USB power adapter.

5.4 Using the headphones to make phone calls

The Teufel REAL BLUE PRO 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

5.5 Using the voice assistant

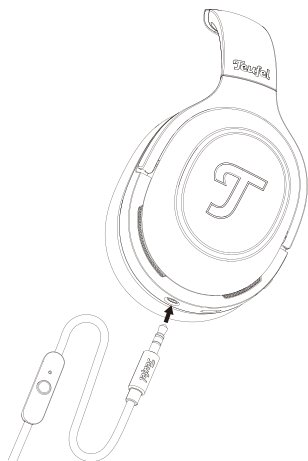
The Teufel REAL BLUE PRO features a built-in microphone. If the headphones are connected to your smartphone via Bluetooth, press and hold the center of the joystick **7** for 2 seconds to enable your voice assistant (when not making a phone call). Hint: Voice Assistant

can be deactivated via the Teufel Headphones App.

5.6 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 **3** 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.

5.7 Using the connector cable



Connecting the cable

1. The enclosed connector cable has two 3.5 mm plugs. Insert the notched 3.5 mm plug with remote control into the AUX In **5** of the headphones.
2. Connect the other plug of the connector cable to the 3.5 mm jack of your audio system or smartphone.

NOTICE

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

There are 2 audio modes when using the analog 3.5mm cable:

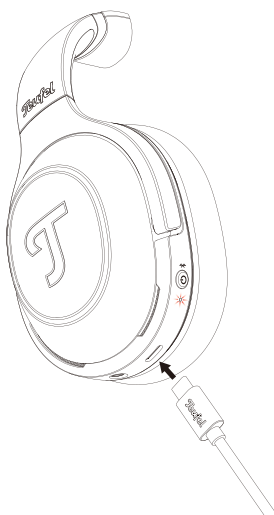
Mode	Power	Description
Analog-In Active	On	DSP tuning available, ANC, transparency mode possible. Battery power needed.
Analog-In Passive	Off	Only music playback possible. Possible with empty battery.

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 **3** 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 battery level 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 **4** of the headphones with a USB port on a PC or a USB power adapter. During charging, the status LED is pulsing in yellow. When the headphones are fully charged, the status LED lights up in white and will fade out after 1 minute.

As soon as the rechargeable battery has been fully charged, unplug the type-c cable from the USB-C port of the headphones. When the charging

cable is disconnected, the LED shows current battery level for 10 seconds. Then LED fade-out.

Battery status	Status LED
1-20%	Slow Flashing red
21-59%	Solid on yellow
60-100%	Solid on white

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.

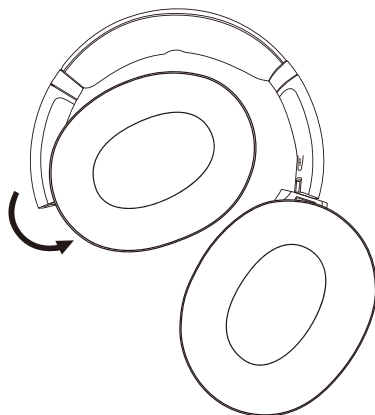
7.2 Handling

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

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

7.3 Storage

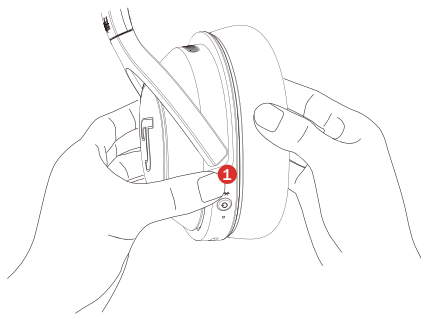
Please follow the illustration to fold the headphones up for space-saving storage.



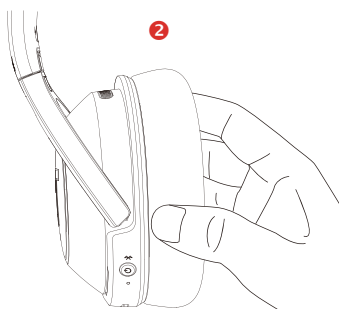
Use the enclosed storage bag to store and transport the headphones and the accessories.

Store the headphones in a clean and dry location.

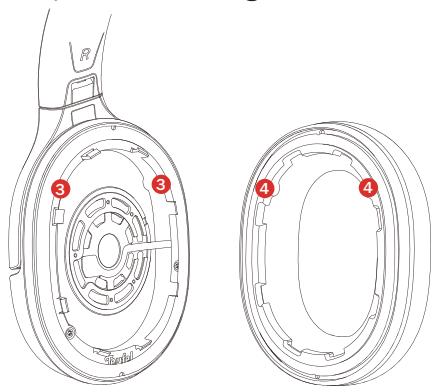
7.4 Changing ear cushion



Please hold the headset firmly with one hand (1) during the change.



Grasp the cushion leather (2) directly and pull it out at a angle.



As shown above, there are 8 plastic edges and 2 grooves (3), please slide the cushion under 2-4 plastic edges and aim the protrusions (4) to the grooves, then go around the cushion, click in the rest.

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 WEEE 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
Headphones don't power on	Plug the USB C cable to charge the headphone.
Headphones don't connect with mobile device	<p>Make sure your mobile device supports Bluetooth technology.</p> <p>On your mobile device: Turn the Bluetooth feature off and then on.</p> <p>Delete your Teufel REAL BLUE PRO headphone from the Bluetooth list on your mobile device. Connect again.</p> <p>Move your mobile device closer to the headphone and away from any interference or obstructions.</p> <p>Connect a different mobile device.</p> <p>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.</p>

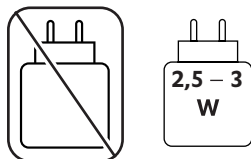
Symptom	Solution
No sound	<p>Press Play on your mobile device to make sure the audio track is playing.</p> <p>Increase the volume on the mobile device.</p> <p>Move your mobile device closer to the headphones (10 m) and away from any interference or obstructions.</p> <p>Use a different music source.</p> <p>Connect a different mobile device.</p>
Poor sound quality	<p>Make sure that headphones fit securely over your ear.</p> <p>Use a different music source.</p> <p>Try connecting another mobile device.</p> <p>Move your mobile device closer to the headphones (10 m) and away from any interference or obstructions.</p>
Headphones pause the content unexpectedly	<p>If wearing detection doesn't work well for you and the music often pauses unintentionally, you can easily disable the smart pause function in the headphones app.</p>
Tap panels trigger unwanted mode changes	<p>If tap interactions do not work well for you and tap panels trigger mode changes unintentionally, you can easily disable the tap panels in the headphones app.</p>
Transparency mode triggered unintentionally	<p>This might be related to the tap panels. If modes are changed unintentionally or tap interactions do not work well for you, you can easily disable the tap panels in the Teufel Headphones App.</p>
Switching ANC modes with the ANC button takes too much time to arrive in the desired mode	<p>You can reduce the number of modes for the button in the app and thus switch through your favorite anc modes faster.</p>

9. Technical Data

Driver Size:	44 mm full range drivers
Nom. driver impedance:	25 Ω
Max sound pressure level (BT):	96 dB(A) (according to EN-50332)
Acoustic THD:	$\leq 1\%$ @ 0 dBFS (100 Hz - 8 kHz)
Frequency range:	10 Hz – 20 kHz
Battery:	Lithium-Polymer, 3.7 V, 800 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

Teufel

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

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