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› beyerdynamic T 90 Audiophile Headphones User Manual

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Model: T 90

INTRODUCTION

Thank you for choosing the beyerdynamic T 90 New Tesla Audiophile High End Headphones. These open-back, circumaural headphones are engineered to deliver an exceptional audio experience with precise sound reproduction and a wide soundstage. Featuring beyerdynamic's advanced Tesla technology, the T 90 offers high efficiency and detailed sound for discerning listeners. This manual provides essential information for the proper setup, operation, and care of your headphones.



Image: Front view of the beyerdynamic T 90 headphones, showcasing the open-back design and black/chrome finish.

SETUP

To ensure optimal performance and sound quality, follow these steps for setting up your T 90 headphones:

1. **Unpacking:** Carefully remove the headphones and all accessories from the packaging. Verify that all components are present.
2. **Cable Connection:** The T 90 headphones feature a fixed cable with a 6.35 mm (1/4 inch) jack. Connect this jack securely to your audio source's headphone output.
3. **Amplification:** The T 90 headphones have an impedance of 250 ohms. For the best audio experience, it is highly recommended to use a dedicated headphone amplifier. While some portable devices may drive them, a quality amplifier will unlock their full potential in terms of dynamics, clarity, and bass response.
4. **Comfort Adjustment:** Place the headphones on your head. Adjust the headband so that the earcups sit comfortably and securely over your ears, ensuring a good seal for optimal sound. The ear pads are designed for extended listening comfort.



Image: Angled view of the beyerdynamic T 90 headphones, showing the headband and earcup design.

OPERATING INSTRUCTIONS

Using your beyerdynamic T 90 headphones is straightforward. Follow these guidelines for an optimal listening experience:

- **Volume Control:** Always start with a low volume level on your audio source or amplifier and gradually increase it to a comfortable listening level. Avoid excessively high volumes to prevent hearing damage.
- **Open-Back Design:** The T 90 features an open-back design, which provides a natural, spacious soundstage. This design also means that sound will leak out of the headphones, and ambient noise will be audible. These headphones are best suited for quiet listening environments.
- **Burn-in Period:** Like many high-fidelity audio components, the T 90 headphones may benefit from a "burn-in" period. Initial sound characteristics may evolve and improve over the first 50-100 hours of use, leading to a more refined and balanced sound.
- **Source Material:** The T 90 headphones are highly transparent and will accurately reproduce the quality of your audio source. For the best results, use high-quality audio files (e.g., FLAC, WAV) and a capable digital-to-analog converter (DAC).



Image: The beyerdynamic T 90 headphones resting on a surface, highlighting their elegant design.

MAINTENANCE AND CARE

Proper care will extend the lifespan and maintain the performance of your beyerdynamic T 90 headphones:

- **Cleaning:**
 - Use a soft, dry cloth to wipe the exterior surfaces of the earcups and headband.
 - For the velour ear pads, a lint roller or a soft brush can remove dust and debris. Avoid using harsh chemicals or excessive moisture.
- **Storage:** When not in use, store your headphones in the provided carrying case to protect them from dust, scratches, and impacts.
- **Cable Care:** Avoid sharp bends or excessive pulling on the cable. Do not wrap the cable too tightly around the headphones.
- **Environmental Conditions:** Keep the headphones away from extreme temperatures, high humidity, and direct sunlight.



Image: The black carrying case for the beyerdynamic T 90 headphones, designed for protection and portability.

TROUBLESHOOTING

If you encounter issues with your T 90 headphones, refer to the following common problems and solutions:

- **No Sound:**
 - Ensure the 6.35 mm jack is fully inserted into the audio source's headphone output.
 - Check the volume level on your audio source and amplifier.

- Test the headphones with a different audio source or amplifier to rule out a source issue.
- Verify that the audio source is playing and not paused or muted.
- **Distorted or Poor Sound Quality:**
 - Ensure the audio cable is not damaged and is securely connected.
 - Reduce the volume if the sound is clipping or distorted at high levels.
 - Confirm that your audio source is providing a high-quality signal. Low-quality audio files can sound poor on high-fidelity headphones.
 - If using a portable device without a dedicated amplifier, consider adding one, as the 250-ohm impedance benefits from more power.
- **Discomfort During Use:**
 - Adjust the headband and earcups to find the most comfortable fit.
 - Take short breaks during long listening sessions to allow your ears to rest.

SPECIFICATIONS

Brand	beyerdynamic
Model Number	BD-T90-JU
Connectivity Technology	Wired
Headphone Jack	6.35 mm Jack
Frequency Range	5 Hz - 40 kHz
Item Weight	0.49 kg
Enclosure Material	Aluminum
Noise Control	Active Noise Cancellation (<i>Note: This specification from the source may be inaccurate for an open-back headphone. The T 90 is an open-back design and does not typically feature active noise cancellation.</i>)

WARRANTY INFORMATION

beyerdynamic products are manufactured to the highest quality standards. For detailed information regarding the warranty period and terms for your T 90 headphones, please refer to the warranty card included with your product or visit the official beyerdynamic website. Keep your proof of purchase for any warranty claims.

SUPPORT

Should you require further assistance or have questions not covered in this manual, please contact beyerdynamic customer support. You can find contact information and additional resources on the official beyerdynamic website: www.beyerdynamic.com.

