

HEDDphone® TWO
HEDDphone® TWO GT



Over-ear Open-back Passive Headphones with AMT drivers.



USER MANUAL

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A LETTER FROM HEDD

Thank you for purchasing our HEDDphone® TWO (GT)!

You have purchased a truly unique headphone with exceptional technical performance, something that was deemed impossible just a few years ago. But our team dreams big, we breathe audio and are continuously pushing boundaries to get closer to the music.

We re-imagined a headphone from scratch, calculating the theoretically best possible sound on paper and had to take up the challenge of developing a new AMT-based driver. This sparked a new generation of headphones by HEDD, the fittingly named HEDDphone®!

Depending on the use case, there will always be advantages and disadvantages to design choices and acoustic principles, but for our goal – to create a HEDDphone® that sounds natural yet allows monitoring of the finest details in audio – we are extremely proud of what we accomplished. Our customers, successful professionals, press and reviewers seem to agree.

Our courage to break boundaries is also shown in our strap design of the innovative HEDDband™ (patent pending), another milestone in headphone development and a step closer to perfect weight distribution.

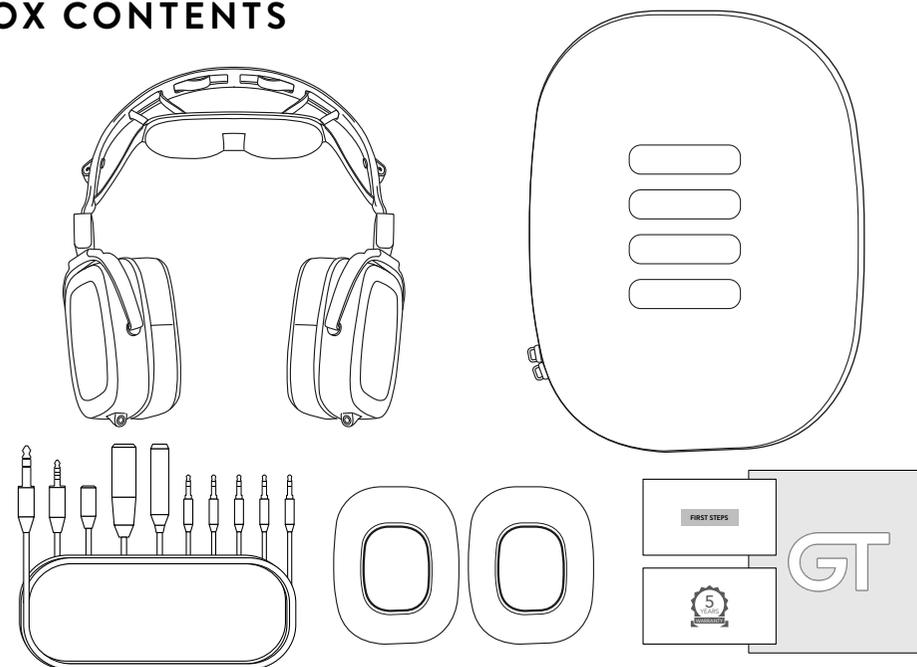
While our roots are clearly set in pro-audio, we resonate strongly with customers outside of studio work. We value input and the HEDDphone® TWO GT is a prime example of taking the feedback from the passionate Head-Fi community and offering a better suited tuning for music consumption based on the exceptionally transparent HEDDphone® TWO, which is a trusted go-to-solution in music production, mixing and mastering. Combining the HEDDphone® TWO and TWO GT, we believe we now offer an excellent product for both creation and immersion.

In case that you were not aware, our company HEDD Audio is also very well-known for designing and building speakers. Check out our website at www.hedd.audio to learn more!

Enough for now. We hope you can enjoy the HEDDphone® TWO (GT) as much as we did developing and building it.

Enjoy!

BOX CONTENTS



HEDDphone® TWO

- one pair of HEDDphone TWO headphones
- two sets of PU vegan ear pads (one set pre-installed)
- travel hard case
- unbalanced cable (2.2m with 6.35mm termination)
- balanced cable (2.2m with 4.4mm termination)
- balanced adapter (from 4.4mm to XLR 4-pin)
- unbalanced adapter (from 6.35mm to 3.5mm)
- registration card for warranty extension
- first steps QR code with link to this manual and more

HEDDphone® TWO GT

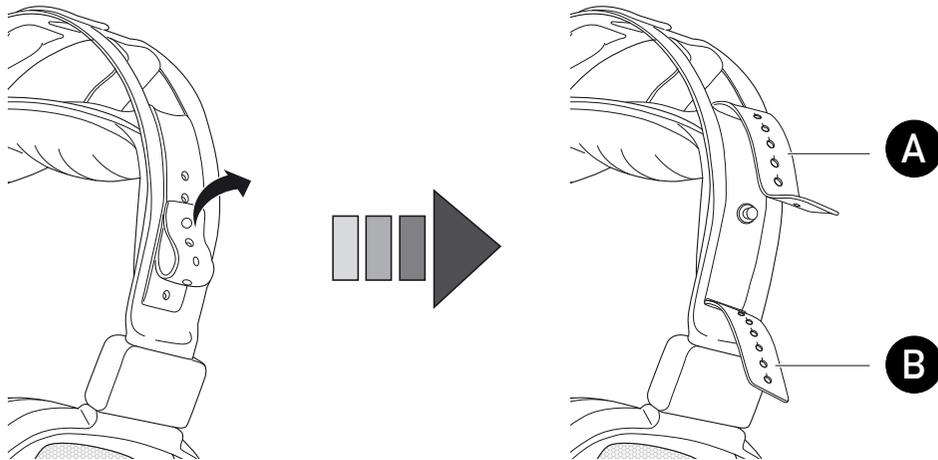
- one pair of HEDDphone TWO GT headphones
- one set of real leather ear pads (pre-installed)
- one set of velour ear pads
- travel hard case
- unbalanced cable (1.6m with 6.35mm termination)
- balanced cable (1.6m with 4.4mm termination)
- balanced adapter (from 4.4mm to XLR 4-pin)
- unbalanced adapter (from 6.35mm to 3.5mm)
- registration card for warranty extension
- first steps QR code with link to this manual and more
- product story brochure

QUICKSTART & FIRST USE

Adjusting the HEDDband™

Only when the HEDDphone® TWO (GT) are worn correctly can they reproduce the audio in the most truthful way. To optimise the fit, we have designed a peerless headband.

HEDDband™ is a unique approach to perfectly adjusting the HEDDphone® TWO (GT) to your specific head size, shape and taste. By tweaking two separate straps individually, you can alter both the height and width of the band, distributing the weight evenly – no matter your head shape.



1. Detach the upper tension strap **A** on both sides from the pins and adjust the (lower) size strap **B** to fit the correct distance of your ear positions and the top of your head.
2. After selecting the correct setting on the size strap **B**, place the headphones on your head and push them towards the back of your head. Make sure your ears are placed inside the openings of the earpads, ensuring an airtight seal around your ears.
3. Use the tension strap **A** to increase the clamping pressure if you feel that the headphones sit too loosely on your head. Make sure the headphones fit comfortably on your head.
4. Secure the straps with the pins.

Diaphragm Crackling While Adjusting

The HEDDphone® TWO (GT) uses a very unique Air Motion Transformer driver (better known in its abbreviated form AMT) with our patented Variable Velocity Transform (VVT™) technology that is created from a very thin polyimide film. The thin material ensures a low mass needed for the exceptional fast movement.

It is normal to experience a crackling noise when adjusting the headphones on the head as air pushes against the membrane. This is to be expected and will cease as soon as the HEDDphone® TWO (GT) is correctly placed on the head and the pads seal the ears. If you continue to hear crackling after adjusting the headphones, please make sure that the headphones are seated correctly.

When audio is playing, the conductor paths on the membrane will stiffen the diaphragm and move the folds as needed to reproduce the audio information.

Please do not pierce the membrane. A hole or deformation will reduce the sound quality. **There is no risk of damaging the driver during normal use.**

Confirming Source Compatibility

As the HEDDphone® TWO (GT) uses one of the largest diaphragms ever in a headphone, its design requires the use of strong magnets. Even though the impedance is low, the sensitivity may be lower than traditional headphones. Our recommendation is that the dedicated headphone amplifier supplies at least 200mW @40 Ω, preferably 1.000mW or even higher for the HEDDphone® TWO GT.

Some sources achieve a higher volume through use of a balanced headphone output. For this reason, the HEDDphone® TWO (GT) comes with a balanced cable. **Please do not use the balanced cable with an unbalanced source or the other way around!**

If you are not sure about the amplification specifications of your source, please contact the manufacturer directly. We are not able to provide this information.

If the source does not provide enough power, the HEDDphone® TWO (GT) cannot reproduce dynamics and details correctly. In case you experience a fatiguing sound or hear distortion, please try a different amplifier.

If you follow the steps above, you should experience an exceptional audio experience with high transparency and precise instrument separation from the HEDDphone® TWO (GT).

Should the sound not match your expectations, please try adjusting the fit or experimenting with different sources. Please see the Troubleshooting section for more information.

GENERAL INFORMATION

Basic Information

This is a headphone. Despite all the innovation we put into designing this product, as well as our very unique drivers, it is still an electro-dynamic passive headphone. It does not have a battery or uses active amplification. You will need a source with a dedicated headphone output that you can connect the HEDDphone® TWO (GT) to. The volume is controlled by the source device. To make sure that your audio interface or headphone amplifier is compatible with this headphone, please see the chapter Confirming Source Compatibility.

Intended Use

This product is designed to be used for careful listening of audio information in a dry indoor environment. It is supposed to help the user make the right decisions in music production, mixing and mastering or to elevate the enjoyment of consuming music. Unintended use may void the warranty.

Please do not expose the HEDDphone® TWO (GT) to severe shocks, pressure or drops. Please do not disassemble it or use the product or any of its components for anything else.

The product is not suitable for children! Be careful that they do not strangulate themselves when playing with the cable.

SAFETY WARNINGS

Loudness Warning

Important: This is a warning for consumers that do not use this headphone professionally: Please do not listen to volumes louder than 85 dB SPL!

Listening to audio at high volume over a longer period of time can damage your hearing forever. Be sure to follow the guidelines issued by the Occupational Safety and Health Administration (OSHA) and consider reading the World Health Organization's report on "Global Estimates of the Burden of Disease from Noise Exposure".

Other Safety Warnings

Do not expose the HEDDphone® TWO (GT) to water or high humidity. Even low amounts of liquid can corrode the gold-plated contacts resulting in an improper audio connection.

The drivers in the ear cups use magnets. Please keep other magnetic parts and devices at a secure distance and do not hold them directly to the HEDDphone® TWO (GT).

Only connect the HEDDphone® TWO (GT) to a dedicated headphone output. Do not connect it to the speaker output or line-out of an amplifier! Excessive amounts of power can damage the HEDDphone® TWO (GT) while improper impedance matching can cause high distortion.

TROUBLESHOOTING

ISSUE	SOLUTION
I hear crackling noise while moving the HEDDphone® TWO (GT) on my head, even if no music is playing.	What you are likely experiencing is air pushing against the very thin yet durable diaphragm. This can be perceived as a crackling sound and is nothing to be afraid of. Please refer to page 2.
The treble seems sharp.	Please try to adjust the position of the ear pads. If the ear pads sit close to the front of the ear, the upper frequencies will be smoothed out.
I am not experiencing any bass response.	Often a lack of bass is due to the ear pads not having a proper seal. Please make sure that no air is passing the outer ear due to deformation of the pads. If necessary, please remove ear rings, any headpieces and even glasses.
The listening volume is too low.	The HEDDphone TWO (GT) is passive. That means the output volume is dependent on the source device that it is connected to. Please refer to page 3.
One side is not outputting any sound.	Please try switching the left and right side of the cable connection to see if the fault is with the driver or the cable. The cable can easily be replaced, whereas damage to the driver needs to be serviced by the HEDD support team.
The sound is intermittent and cuts off occasionally.	The contact somewhere along the audio chain does not seem to be fully secured. It could be that either the cable is not properly connected (pushed all the way in) or any of the contact points has misalignment due to dirt, residue or something else.
The headphone physically hurts after a while.	If there is a specific area that hurts, the weight of the HEDDphone® TWO is not evenly distributed. Please revise the settings of the shape and tension strap as described in page 2.
The sound is distorted and not clear at all.	Using incompatible amplifiers can result in poor sound quality – or worse, even damage the audio gear due to impedance mismatch.

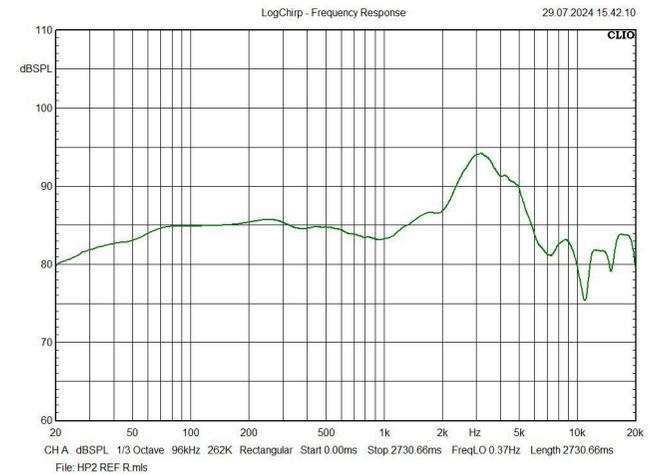
TECHNICAL SPECIFICATIONS

HEDDphone®	HEDDphone TWO	HEDDphone TWO GT
Headphone Type	passive, open, circumaural	passive, open, circumaural
Driver Type	Air Motion Transformer with VVT™ technology and Kapton polyimide diaphragm	Air Motion Transformer with VVT™ technology and a multi-layered Kapton polyimide diaphragm
Frequency Range	10 Hz - 40 kHz	10 Hz - 40 kHz
Impedance	41 Ω flat	41 Ω flat
Sensitivity	89 dB SPL at 1W	88 dB SPL at 1W
Weight	550 g	550 g
Cable Specifications	highly durable Kevlar-infused OFC	high-grade nylon-textured SPC
Included Accessories	<ul style="list-style-type: none"> • 2 sets PU leather ear pads • travel case • unbalanced cable • balanced cable • unbalanced adapter • balanced adapter 	<ul style="list-style-type: none"> • 1 set leather ear pads • 1 set velour ear pads • travel case • unbalanced cable • balanced cable • unbalanced adapter • balanced adapter
Warranty	limited 5-year warranty on driver and mechanical parts after registration	limited 5-year warranty on driver and mechanical parts after registration

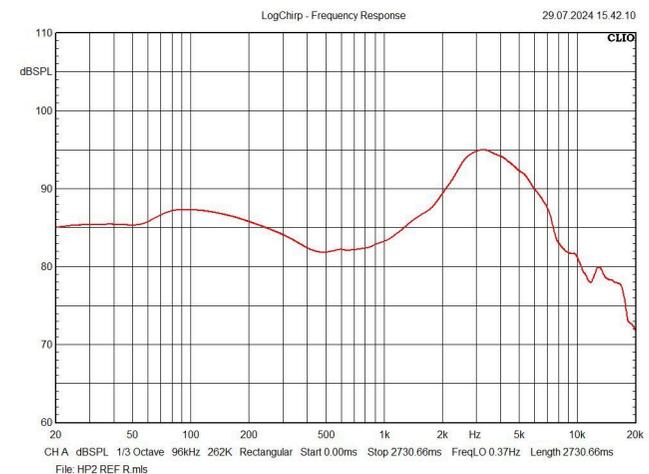
MEASUREMENTS

Please note: The raw frequency response measurements are done on an IEC 711. A linear curve does not equal a neutral response!

HEDDphone TWO



HEDDphone TWO GT



WARRANTY

HEDD stands behind their innovation. That's why we offer an extended 5-year warranty, a testament to the quality of our products.

The warranty includes the drivers and all mechanical parts for any defect that occurs during intended use. Any parts that are prone to wear and tear can be replaced and ordered from HEDD or any licensed reseller.



Please note that in order to get your five (5) years extended warranty, you need to head over to hedd.link/registration and register your product – or scan the QR code to the left.

DISPOSAL



Disposing of the Packaging: Sort the packaging before you dispose of it. Dispose of paperboard and cardboard with the recycled paper service and wrappings with the appropriate collection service.



Disposing of the Product: Old appliances may not be disposed of in the household waste! Should the product no longer be capable of being used at some point in time, dispose of it in accordance with the regulations in force in your city or county. This ensures that old appliances are recycled in a professional manner and also rules out negative consequences for the environment. For this reason, electrical equipment is marked with the symbol shown here.

(Applicable in the European Union and other European countries with separate collection systems of recyclable materials.)

DECLARATION OF CONFORMITY



The EU declaration of conformity can be requested from the following address:

STAY IN TOUCH



HEDD Audio GmbH
Salzufer 13-14
10587 Berlin
Germany

Write us: info@hedd.audio
Website: www.hedd.audio

