

H HIFIHEAR ZS12 PRO 2

H HIFIHEAR KZ ZS12 Pro 2 USB C Headphones with Microphone Instruction Manual

1. INTRODUCTION

The H HIFIHEAR KZ ZS12 Pro 2 are high-fidelity in-ear monitors (IEMs) designed for exceptional audio performance. Featuring a hybrid driver configuration with a 10mm ultra-low frequency dynamic driver and multiple balanced armatures, these headphones deliver powerful bass, clear mids, and refined highs. This manual provides essential information for the proper setup, operation, and maintenance of your KZ ZS12 Pro 2 headphones.

The ZS12 Pro 2 is equipped with a 10mm ultra-low frequency dynamic driver, featuring an optimized magnetic circuit and refined diaphragm design for exceptional bass depth and extension. Each earbud also houses two 31736 ultra-high frequency balanced armatures and one 30019 mid-high frequency unit, ensuring detailed and clear sound reproduction across all frequencies.

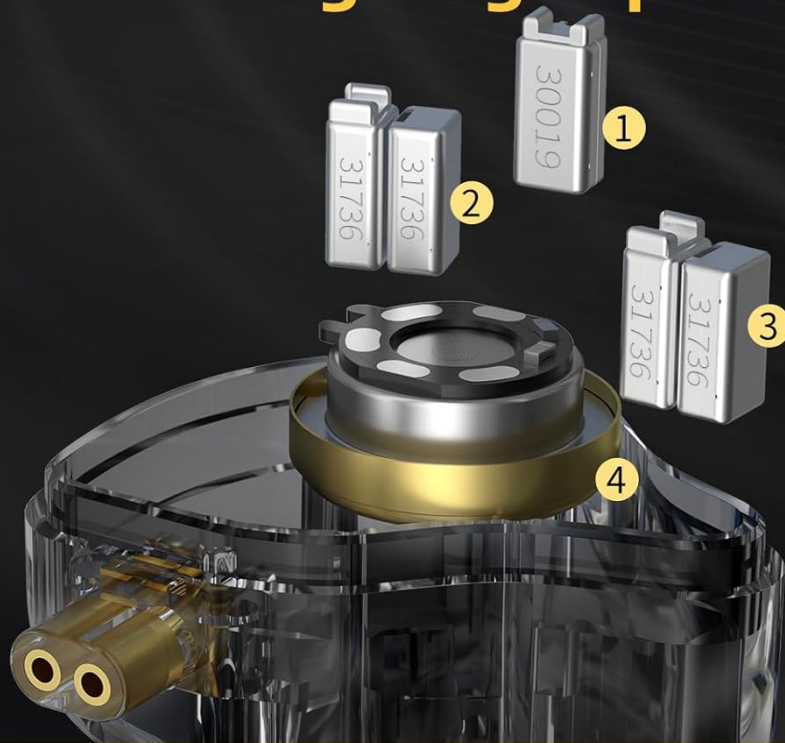
Powerful Dynamic Driver Unlocking a New Dimension of Bass

Equipped with a 10mm ultra-low frequency dynamic driver, KZ-ZS12 Pro 2 features an optimized magnetic circuit and refined diaphragm design that deliver exceptional bass depth and extension. Every low note resonates with powerful tension and layered texture — reproducing sound with remarkable realism and emotional impact.



Image: Internal structure of the dynamic driver, illustrating its components for powerful bass.

Golden Acoustic Ratio Redefining Flagship Sound



- ① ----- 30019 Mid-High Frequency Balanced Armature (×1)
- ② ----- 31736 Ultra-High Frequency Balanced Armature (×2)
- ③ ----- 31736 Ultra-High Frequency Balanced Armature (×2)
- ④ ----- 10mm Super-Linear Dynamic Driver (×1)

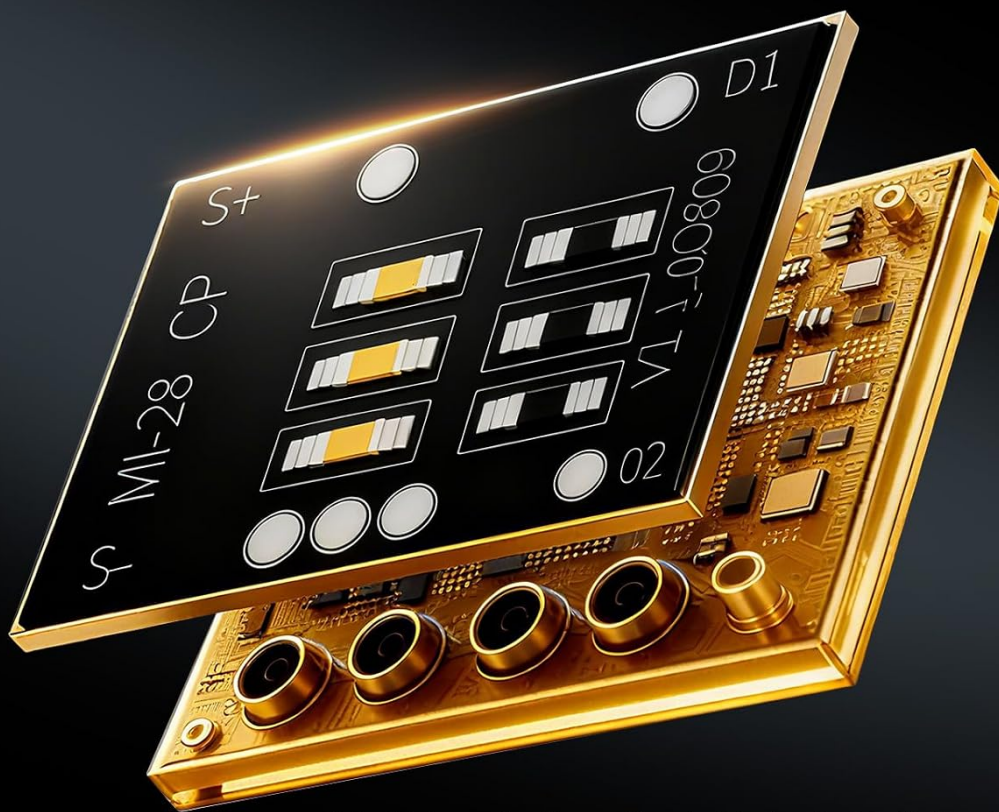
Image: Exploded view of the earbud showing the 1DD+5BA driver configuration.

A professional electronic crossover board ensures precise frequency division between the dynamic and balanced armature drivers, minimizing interference and maximizing hybrid performance for a balanced 3-frequency sound.

Built-In Electronic Crossover Board

The “Sound Commander” of Hybrid Drivers

Beyond its advanced 1DD + 5BA configuration, ZS12 Pro 2 features a professional electronic crossover board. Acting as the “sound director,” it ensures precise frequency division between dynamic and balanced armature drivers, minimizing interference and maximizing hybrid performance.



Note: This is a rendered image. The actual structure is subject to the actual product

Image: The electronic crossover board, responsible for sound separation.

Reference-Grade Hi-Fi Sound Signature Comparable to Premium IEMs Worth Thousands

Through meticulous tuning and acoustic optimization, KZ engineers achieved a perfectly balanced three-frequency performance —deep and powerful bass without muddiness, clear and transparent mids with vivid detail, and smooth, refined highs free of harshness. Whether listening to complex orchestral tracks or gaming soundscapes, ZS12 Pro 2 reproduces every sound with precision.

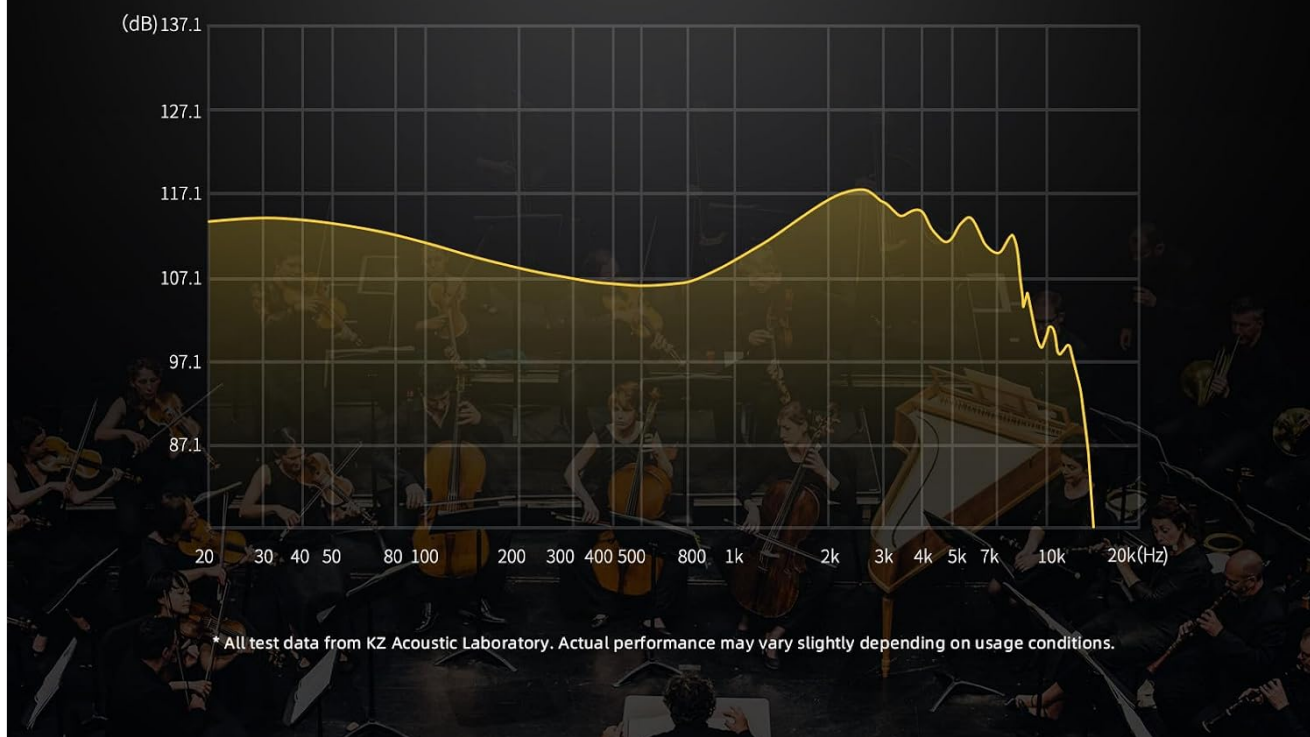


Image: Frequency response curve illustrating the balanced sound profile.

2. WHAT'S IN THE BOX

Upon unboxing your KZ ZS12 Pro 2, please ensure all the following items are present:

- 1x KZ ZS12 PRO 2 Wired Earphones
- 1x Earbuds Eartip Set
- 1x IEM Cable (Type-C with Mic)
- 1x User Manual

3. SETUP

3.1 Connecting the Cable

The KZ ZS12 Pro 2 features a 2-pin gold-plated detachable cable design. Carefully align the two pins on the cable connector with the corresponding sockets on each earbud. Gently push the connector into place until it is secure. Ensure the cable is oriented correctly for the left and right earbuds.

Gold-Plated Detachable 2-Pin Connector One IEM, Multiple Possibilities

ZS12 Pro 2 features a 2-pin gold-plated detachable cable design, allowing you to easily swap cables in seconds—from standard wired listening to upgrading with the KZ Acoustics Bluetooth Earhook, transforming it instantly into a wireless Hi-Fi earphone.



Image: Detachable 2-pin connector for cable attachment.

3.2 Wearing the Earbuds

The earbuds are designed for an ergonomic over-ear fit. Identify the left (L) and right (R) earbuds. Gently insert each earbud into your ear canal, then loop the cable over the top of your ear. Adjust the earbud and cable until you achieve a comfortable and secure fit. This over-ear design helps to minimize microphonics and ensures stability during use.

Ergonomic Over-Ear Design Comfort and Stability in Every Fit

Using years of KZ's ear data modeling and ergonomic research, ZS12 Pro 2's shell is designed to fit the natural curvature of the ear. Combined with an over-ear cable design, it ensures a secure and comfortable fit even during long listening sessions.



Image: Proper wearing technique for the over-ear design.

3.3 Connecting to Devices

This version of the KZ ZS12 Pro 2 comes with a USB-C plug. Connect the USB-C plug to the compatible port on your smartphone, tablet, laptop, or other audio device. Ensure the connection is firm.

Your browser does not support the video tag.

Video: Demonstrates connecting the USB-C plug to a device and highlights the various sound modes available with the Type-C version.

4. OPERATING INSTRUCTIONS

4.1 Using the Built-in Microphone

The KZ ZS12 Pro 2 USB C Headphones include a high-performance omnidirectional HD microphone. This microphone is integrated into the cable for convenient communication during calls or gaming. Ensure the microphone is positioned appropriately for clear voice capture.

4.2 Inline Control

The cable features a smart one-touch inline control for easy operation. Specific functions may vary slightly depending on your connected device, but typically include:

- **Single Press:** Play/Pause music, Answer/End calls.
- **Double Press:** Next track.
- **Triple Press:** Previous track.

4.3 Type-C Version Tuning Switches

For the Type-C version, the integrated sound card offers four preset sound modes via tuning switches. These modes allow you to tailor the audio output to your preferences:

- **Music Equalization Mode:** Provides a tri-band natural balance, suitable for various music styles.
- **Low-Frequency Enhancement Mode:** Deepens and strengthens bass, making instrument sounds more prominent in music.
- **Tactical Balance Mode:** Optimizes sound for gaming, making gunshots evident and positioning precise with rich detail.
- **Full Power Mode:** Enhances overall sound, making gunshots louder and environmental sound effects more prominent.

Refer to the visual indicators or markings on your USB-C plug to identify and switch between these modes.

Optional Type-C Sound Card Version

Four Preset Sound Modes, Tailored to Your Needs



Image: USB-C plug with tuning switches for different sound modes.

5. MAINTENANCE

5.1 Cable Care

The included cable is crafted from high-purity silver-plated copper, designed for superior conductivity and durability. To maintain its performance and extend its lifespan:

- Avoid sharp bends or kinks in the cable.
- Store the cable neatly when not in use to prevent tangling.
- Keep the connectors clean and free from dust or debris.

High-Purity Silver-Plated Upgrade Cable

Crafted from high-purity silver-plated copper, the included cable provides superior conductivity, ensuring fast and accurate signal transmission with minimal loss. The parallel dual-wire structure further enhances stability and anti-interference performance, while its anti-oxidation properties extend cable lifespan.



Image: High-purity silver-plated cable for optimal signal transmission.

5.2 Cleaning the Earbuds

Regular cleaning helps maintain hygiene and sound quality:

- Gently wipe the earbud shells with a soft, dry, lint-free cloth.
- Remove eartips and clean them with mild soap and water if necessary, ensuring they are completely dry before reattaching.
- Use a small, soft brush or cotton swab to carefully remove any earwax or debris from the nozzle filters. Do not use sharp objects.

6. TROUBLESHOOTING

If you encounter issues with your KZ ZS12 Pro 2 headphones, please refer to the following common solutions:

- **No Sound:**
 - Ensure the USB-C plug is fully inserted into your device.

- Check the volume level on your device.
 - Verify that the 2-pin connectors on the earbuds are securely attached to the cable.
 - Test with another audio source or device to rule out device-specific issues.
- **Microphone Not Working:**
 - Ensure the microphone is not obstructed.
 - Check your device's audio settings to ensure the external microphone is selected and not muted.
 - Test the microphone with a different application or device.
- **Poor Sound Quality:**
 - Ensure the eartips provide a good seal in your ear canal. Try different sized eartips for a better fit.
 - Clean any debris from the earbud nozzles.
 - Check the cable for any visible damage.

7. SPECIFICATIONS

Feature	Specification
Brand	H HIFIHEAR
Model Name	ZS12 PRO 2
Ear Placement	In Ear
Form Factor	In Ear
Impedance	35 ohm
Connectivity Technology	Wired (USB-C)
Noise Control	Passive Noise Cancellation
Frequency Response	20 Hz - 40 KHz
Sensitivity	109 dB
Audio Driver Type	Hybrid Driver (1DD+5BA)
Enclosure Material	Aluminum, Metal
Additional Features	Detachable Cable, Microphone Included, USB C audio plug
Control Type	Media Control (One-touch)

8. WARRANTY AND SUPPORT

The H HIFIHEAR KZ ZS12 Pro 2 headphones come with a**12-month warranty** from the date of purchase. This warranty covers manufacturing defects under normal use.

For warranty claims, technical support, or any inquiries regarding your product, please contact H HIFIHEAR

customer service through their official channels or the retailer where the product was purchased. Please retain your proof of purchase for warranty validation.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question