HIFIMAN

Innovating the Art of Listening

HE6 WiFi

Owner's Guide

HIFIMAN

Innovating the Art of Listening

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Outstanding Sound Quality

Compared with conventional dynamic headphones, planar magnetic technology offers a superior sounding experience in terms of overall quality, especially when it comes to the aural soundstage. Dynamic headphones utilize conductors that vibrate in select areas of the diaphragm. This results in a large percentage of the diaphragm not being directly driven by those conductors, resulting in somewhat diminished performance. Planar magnetic headphones are fundamentally different in that their weight (conductors + diaphragm) is much lower than dynamic headphones. The result is superior performance, especially in the upper frequencies, or treble.

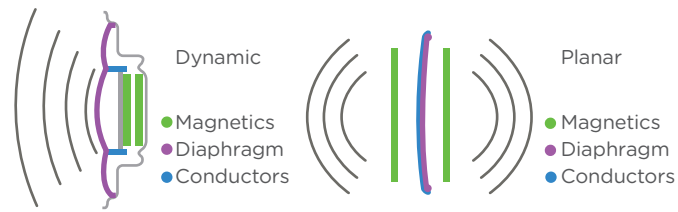
$$f_h = \frac{1}{2\pi}\sqrt{\left(\frac{1}{m1}+\frac{1}{m2}\right)Sn}$$

fh: upper frequency bound
m1: mass of diaphragm
m2: mass of conductor traces

A smaller mass from either the diaphragm or conductor results in improved upper frequency response.

Planar headphones feature conductive layers distributed throughout the surface of diaphragm. The diaphragm is evenly driven by the magnetic force so that planar headphones produce significantly lower distortion when compared with conventional dynamic headphones.

This lower distortion results in better overall reproduction of minute details. Positioning of instruments and other elements of imaging are demonstrably better, with a soundstage that is consistently wide and natural sounding.



Nanometer Thickness Diaphragm

Assures Remarkable Reproduction

Unlike conventional dynamic drivers, HIFIMAN's planar magnetic headphones utilize a super-thin film in proximity to the magnet to produce sound that is detailed, with a wide soundstage. (The thinner the film, the lower the mass, which yields a quick response with low distortion.)

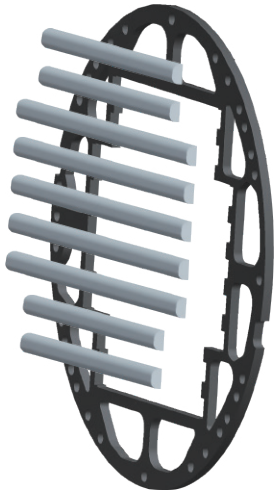
The film used in the HE6 WiFi is so thin that it is a nanometer thick – a HIFIMAN innovation. If viewed from the side, it would be invisible to the naked eye. This development is a cornerstone of the company's reputation for remarkable sound.

The Stealth Magnets

Stealth Magnets Design

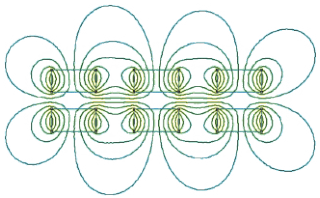
The stealth magnets use high-precision laser cutting technology, achieving the success of sound resolution and low distortion.

The stealth magnet structure optimizes the air flow and reflection in the magnetic gap of the coil, making the sound of the voice coil more delicate and obtaining a more pure and natural sound.

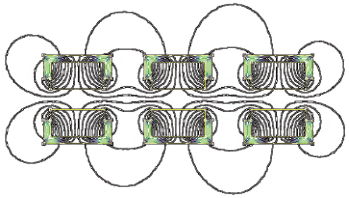


Enhanced Magnet

With rare-earth-free magnetic materials, it achieves the sensitivity of a planar speaker close to that using rare-earth magnets through structural and material optimization.



Normal magnets



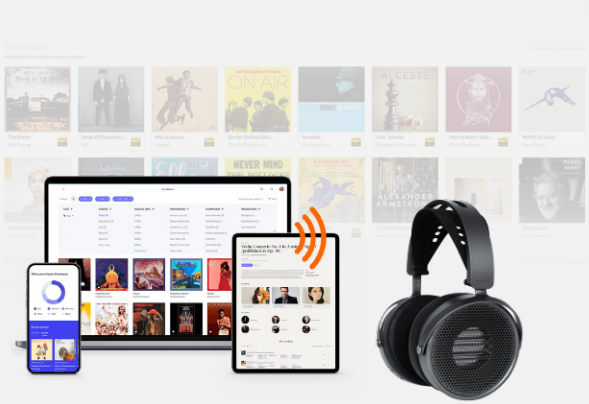
Enhanced magnets

Headband Gen.2

New Composite Headband

WiFi Streaming

The WiFi streaming technology supports high-speed transmission in high-bitrate, and multi-format lossless music.



Support for most online streaming services

qobuz REDISCOVER MUSIC roon READY Spotify (unauthorized)

Indoors, outdoors, wireless, wired... They cover a wide range of scenarios.

WiFi streaming mode

Play music from online store

Support high resolution Bluetooth profiles

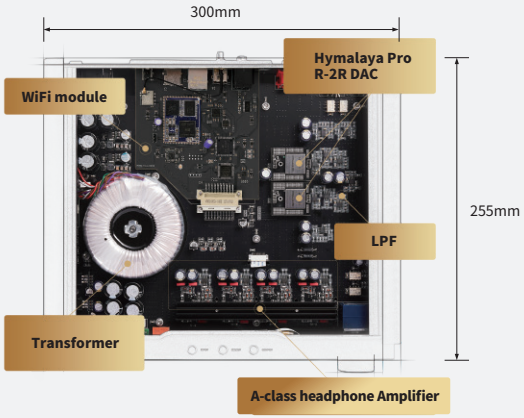
LDAC Qualcomm® aptX™ HD Qualcomm® aptX™

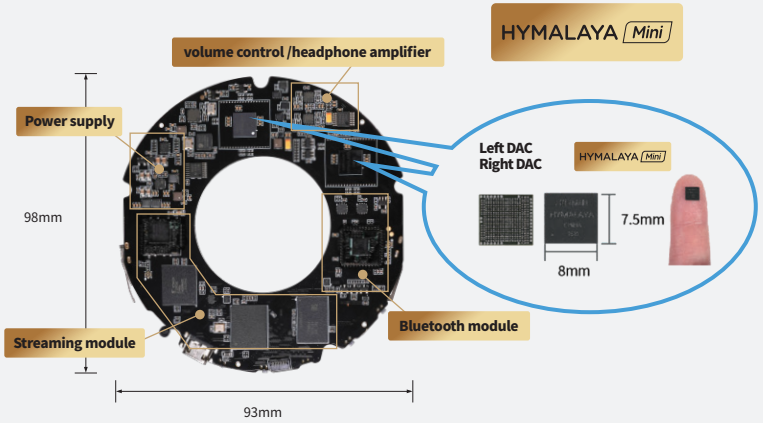
AAC SBC

USB-C

USB audio mode

The true System All in One!





Function Description of HE6 WiFi Headband Headphones

The HE6 WiFi is an all-in-one over-ear headphone that supports high-definition Bluetooth playback, media playback, and USB Audio. It defaults to Bluetooth mode when turned on, and you can cycle through the three modes by pressing the function button.

HE6 WiFi Features Buttons and Functions

1. Power On/Off Button: Press 3-5 seconds to power the device. It will default to Bluetooth mode.
2. Function Button: Press the button to select a preferred connection: WiFi, Bluetooth, or USB-C
3. Volume Buttons: Tap "+" to increase the volume; "-" to decrease the volume
4. WiFi Reset Jack: To reset the WiFi network, insert a paper clip or small pin into the reset jack for 3-5 seconds. The WiFi function indicator light will flash blue and red three times, indicating the WiFi connection is cleared.

Bluetooth LED Light Display

In Bluetooth mode, the function key's LED light is off. When ready to pair, the Power Button light alternately blinks blue and green.

During playback, the LED light blinks blue at five second intervals. When paused, the LED light blinks green at five second intervals.

WiFi Mode

In WiFi mode, the LED remains green. (It may take up to two minutes to enter WiFi mode after the headphone is turned on.)

The headphone will enter AP (access point) mode, which allows it to connect to the wireless sources, i.e. a smartphone or tablet. When the LED light blinks green once per second, the headphone is ready to connect to the WiFi network.

Once connected, the status LED will remain on and the playback LED will blink once per second.

USB Audio Mode

In USB mode, the function light will remain purple. Charging is disabled when in USB mode.

Battery Level

When charging, the power button LED light will remain red until fully charged, at which point it will turn green.

The power button's LED light will flash red when power is low.
Firmware Update

Firmware Upgrade

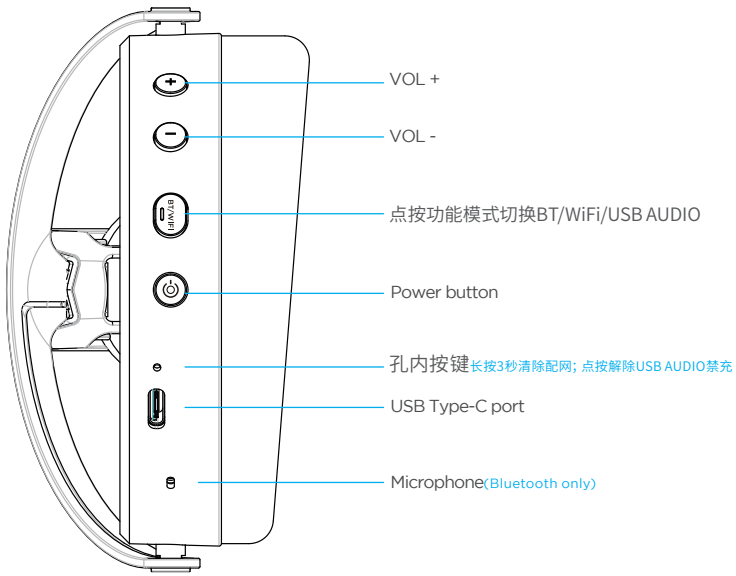
HIFIMAN will periodically offer firmware updates to ensure maximum efficiency and performance. It is recommended that you follow the update procedure every 2-3 months.

To update the firmware, clear the network configuration by pressing the WiFi Function button for 3-5 seconds until the light flashes red three times, at which point you should release the button. Once the connection is cleared, the headphone will power down.

Restart the headphone and follow the WiFi network matching procedure detailed in the WiFi Mode LED Display section. When "About" appears on the setup page on your device (see WiFi Connection page), click Manual Update and import the update file. The update will be complete the next time the headphone is turned on.

After the update is complete, restart the headphone and re-match it to the network.

WiFi Connection Mode Operation Instructions



Connecting the HE6 WiFi to a Network

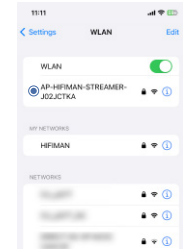
①

1. Press and hold the power button for 3-5 seconds until the LED flashes green.

②

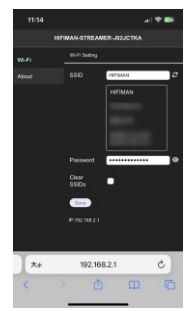
2. Press and hold the function button for 1 second. The LED will remain green for 5 seconds before turning off for 30 seconds, after which the light will flash, indicating it entered AP hotspot mode.

③



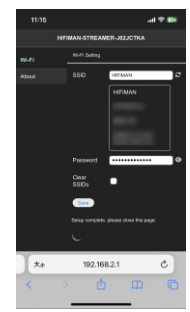
3. Open the device's Wireless Network page and select AP-HIFIMAN-STREAMER-XXXXX. (XXXXX is the device's identifier.) The password is 88888888.

④



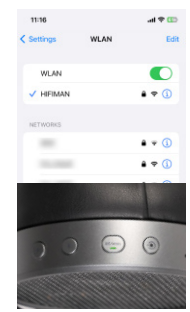
4. Open the browser on your device and enter the following IP address: 192.168.2.1 to enter the Management Settings page.

⑤



5. Find your local WiFi network, click on it, and enter the password. Following setup, the system will prompt you to reconnect to the WiFi. Click to enter, at which point you will see: "Setup complete, please close the page." Close the settings page to complete the configuration.

⑥



6. Once again, open the device's Wireless Network page. AP-HIFIMAN-STREAMER will have disappeared, indicating the headphone is matched to the network. When the function button's green light is steady, it indicates that the system has entered WiFi mode, while the indicator light will flash when music is playing.

* This headphone supports Mesh Wi-Fi connectivity for extended coverage, but delays, stuttering or disconnections may occur during handover between nodes. Connecting to a single router node is recommended for optimal stability. Compatibility issues may exist with certain Mesh routers, and we will continuously optimize performance via firmware updates.

As a standard network device, this headphone is recommended to be on the same network as the host device. To avoid affecting normal operation, do not isolate it with firewall or use it in complex network environments.

The performance of this headphone depends on the network environment. A 5G or faster connection speed is highly recommended.

Package Details

Specifications

Frequency Response: 8Hz-65kHz
THD+N: DAC: 0.0055% @-9dB, 1KHz
DAC+AMP: 0.009% @32Ω, 1KHz
Channel Separation: 110dB @1KHz
Microphone(Bluetooth only)
Net Weight: 399g

Operating Modes: WiFi, USB Audio, Bluetooth
Battery life under WiFi mode: 6.5-7.5 hours
Battery life under Bluetooth mode: 23 hours
Charging Time: 3-4 hours;
Standby Time: Over 30 days

Audio Formats: PCM 44.1KHz-768KHz, 32/24/16Bit, DSD native 64-512
Bluetooth Codecs: SBC/AAC/aptX/aptX HD/LDAC

Package Contents

(1) Pair of headphones
(1) Pair of ear pads (mounted on headphone)
(1) USB cable

HIFIMAN Limited Warranty

Your product is warrantied for a period of one year beginning with the original date of purchase. If you join HIFIMAN on Facebook, your product warranty will be extended for an additional six months. Please contact HIFIMAN customer service if you need any assistance.

The dated sales or delivery receipt is your proof of purchase. You may be required to provide proof of purchase as a condition of receiving warranty service so please keep it handy.

If your product is under warranty and malfunctions occur, please contact HIFIMAN customer service or your authorized dealer. If necessary, and at the discretion of HIFIMAN, the company will provide a warranty repair or replacement of your product.

Caution: do not disassemble or modify the product in any way. Tampering with or modifying your HIFIMAN product will void its warranty.

This Limited Warranty does not apply to :

1. Defective or discolored parts if the damages are caused by fluids, dirt, missing keys, broken plastic parts or improper use.
2. Damage caused by misuse with another product.
3. Use of the product for other than its normal intended use, including, without limitation, failure to use the product in accordance with the supplied "Owner's Guide"
4. Damage caused by accident, abuse, neglect or misuse.
5. If you do not have a valid dated receipt showing proof of purchase.
6. Damage caused by services/repairs or other modifications to the system carried out by anyone other than HIFIMAN or an authorized HIFIMAN distributor or dealer.
7. Damage caused by self-repair or if the unit has been disassembled or modified in any way.

HIFIMAN guarantees your satisfaction and will do everything reasonable to achieve that. If you have any questions or concerns with your product, simply contact your authorized dealer or HIFIMAN directly (if purchased from us) and explain the issue in detail. Should a return be required, a RMA# will be issued. Return shipping to HIFIMAN or authorized service facility will be at the owner's expense.

The warranty applies to the first purchaser and is not transferable. Should you need warranty service please contact your authorized HIFIMAN dealer. Or email us directly at customerservice@HIFIMAN.com

If you have any concerns with your product: please contact us to explain the issue in detail. If a return/refund is required, a RMA# will be issued. Return shipping to HIFIMAN or authorized service facility is done at the owner's expense.

For any further information or questions, please contact your authorized HIFIMAN dealer. Or email us directly at customerservice@HIFIMAN.com.

1. **Correct disposing of waste electrical and electronic equipment (WEEE) and symbol of the "crossed-out wheeled bin"**
   The crossed-out wheeled bin on WEEE means that you are obliged by law to dispose of this equipment separately from the unsorted municipal waste collection system. Disposing of it in the residual waste bin, the yellow bin or yellow bag for recyclable materials is legally prohibited. If the equipment contains portable batteries, accumulators or lamps that are not permanently installed, these must be removed before disposing of the product and be disposed of separately as waste portable batteries.

2. **Ways of returning waste electrical and electronic equipment**
   Owners of waste electrical and electronic equipment can return them to those facilities for returning or collecting waste electrical and electronic equipment set up and provided by the public-sector waste disposal authorities or alternatively with collection points installed by producers, retailers or distant sellers to ensure that the waste electrical and electronic equipment is disposed of correctly. The following link leads to an online registry of the available collection and take-back sites: https://e-schrott-entsorgen.org/

3. **Data privacy**
   We should point out to all end-users of waste electrical and electronic equipment that they themselves are responsible for deleting all personal data from the waste electrical and electronic equipment to be disposed of.

WEEE Reg. No. DE 73830605
WEEE Reg. No. DE 48150071

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