



CWH100

MODEL CWH100 Bluetooth
Wireless Hi-Res Over-Ear Headphones

USER MANUAL



- 1 Hi-Res Over-Ear Headphones
- 2 Detachable Microphone
- 3 USB Cable
- 4 3.5mm Braided Audio Cable (3-rings/4-nodes connector jack)
- 5 Travel Case Hard Cover
- 6 User Manual

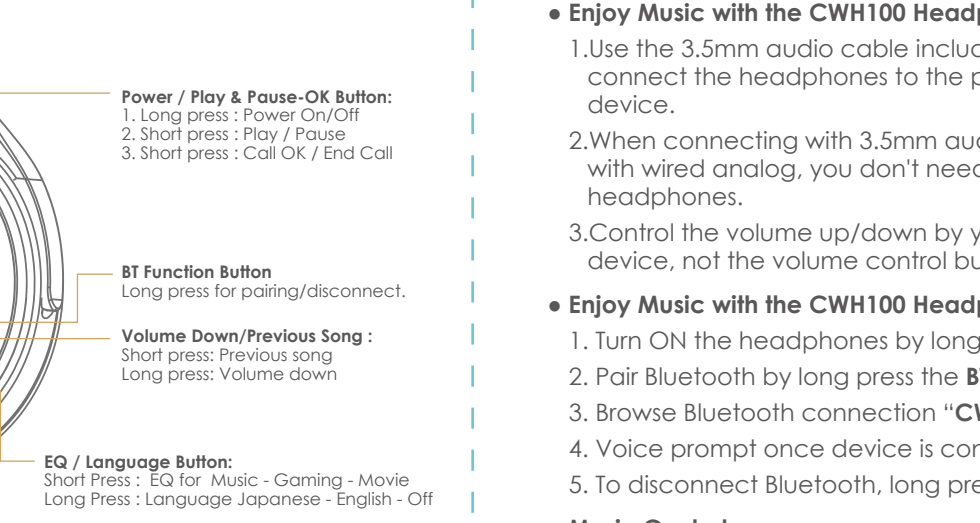
MODEL CWH100 Bluetooth Wireless Hi-Res Over-Ear Headphones

Main Features

- Hi-Res Over-Ear Headphones with Frequency Response Range 20-40,000Hz having Dynamic 40mm Full-range, bass-enhanced driver
- CAEE audio enhancer engine enables up-sampling from 48KHz to 192KHz/24bit audio output, rendering all lossy audio files to Hi-Res quality by 192KHz /24bit re-Sampling to audio out
- Headphone speaker is driven balanced, so the independent ground L/R will not pick up noises and improve cross talk between L and R channel
- Preset EQ (Equalizer) : Selection of sound fields from, Music (*best for vocalist and instruments performance*) - Gaming (*precision in sound positioning*) - Movie (*immersive and 3D surround sound*)
- In 10 meter range, via Bluetooth Wireless V4.2 you can fully enjoy hi-res quality musics. When wired with 3.5mm audio cable, it is auto detected and you can enjoy musics at battery run-out
- Built-in DSP will provide you with wide sound field and 30mW+30mW high power amp can realize real hi-fi sound.
- Digital streaming USB audio enables you decode Hi-Res files as DSD256(DoP) and PCM192KHz/24bit like FLAC

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Keys & Functions



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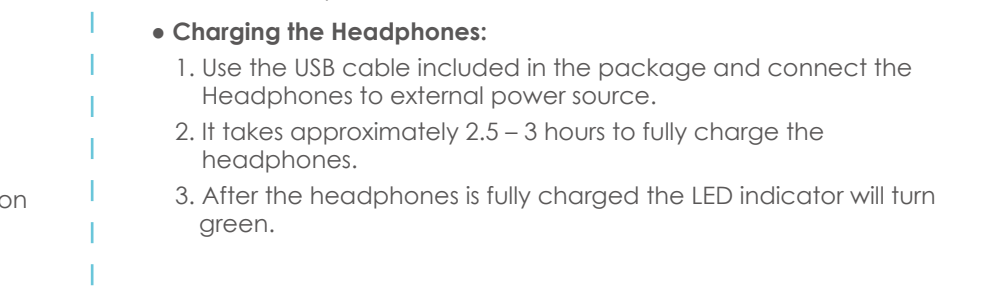
Basic Operation

- **Enjoy Music with the CWH100 Headphones (Wired Analog)**
 1. Use the 3.5mm audio cable included in the package and connect the headphones to the phone jack of the playing device.
 2. When connecting with 3.5mm audio cable and enjoying musics with wired analog, you don't need to power on the headphones.
 3. Control the volume up/down by your external music player device, not the volume control button of the headphones.
- **Enjoy Music with the CWH100 Headphones (Bluetooth Wireless):**
 1. Turn ON the headphones by long press the **Power Button**.
 2. Pair Bluetooth by long press the **BT Button**.
 3. Browse Bluetooth connection "CWH100".
 4. Voice prompt once device is connected.
 5. To disconnect Bluetooth, long press the **BT Button**.
- **Music Control**
 1. Play or pause by Short press the **Power Button**.
 2. Adjust the volume up or down by long press the Volume Up or the Volume Down key.
 3. Short press Next Song key to skip song.
 4. Short press Previous song key for previous song.
- **Call OK and End calls:**
Call OK to accept or end calls by short press the **Power Button**.

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Basic Operation

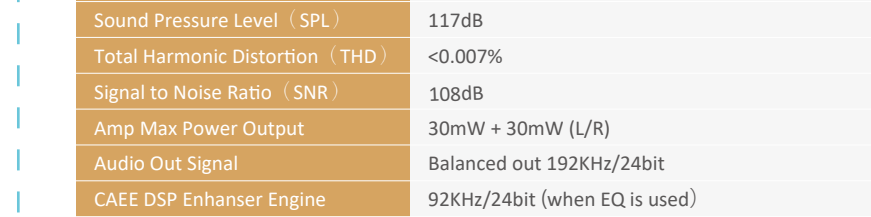
- **EQ Setting**
Short press EQ Button to set Music EQ -> Gaming EQ -> Movie EQ
- **Language Setting**
Long press Language Button to set the voice prompt in Japanese -> English -> Off
- **Audio Input Source Connection Priority:**
 1. The headphones will auto-detect audio input source between (Analog-IN) and (USB Audio) when both are connected.
 2. When all audio inputs (Analog-IN, USB Audio, and BT) are connected, the audio input connection priority will be Analog-IN > USB Audio > BT.
 3. Because of connection priority, when Analog-IN is used, USB Audio and BT do not function.
- **Microphone**
The headphone comes with built-in Microphone, and for enhanced voice clarity, please connect the extra microphone provided in the package to the microphone input



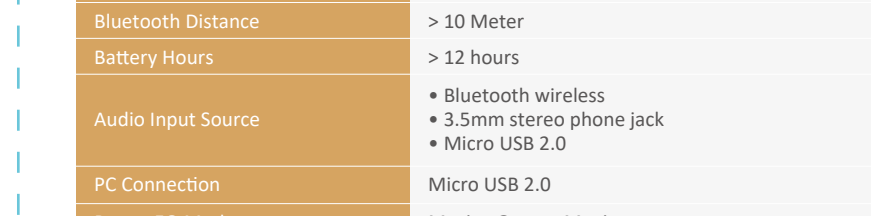
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Preset EQ : Music - Gaming - Movie

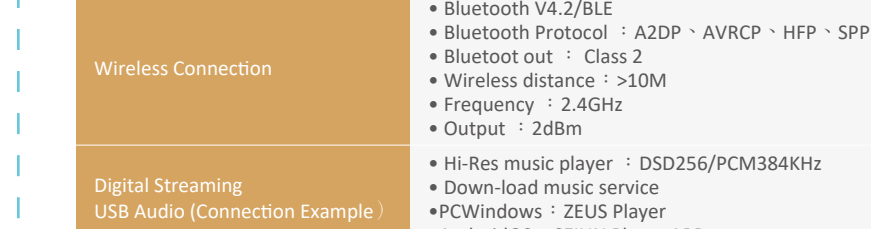
3 variations of EQ programs into CWH-100 headphones to ensure that no matter the situation, you are getting the most out of supreme Audio Experience!



#Music EQ:
Best for vocalist and instrumental performances!



#Movie EQ:
Immersive and 3D surround sound effects



#Gaming EQ:
Precision in gaming position

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Technical Specifications

Headphone Style	Head Band/Over Ear/Close Back
Head Band/Over Ear/Close Back	Dynamic 40mm Dome type Hi-Res Driver
Frequency Response	20Hz ~ 40KHz
Impedance	32Ω
Sound Pressure Level (SPL)	117dB
Total Harmonic Distortion (THD)	<0.007%
Signal to Noise Ratio (SNR)	108dB
Amp Max Power Output	30mW + 30mW (L/R)
Audio Out Signal	Balanced out 192KHz/24bit
CAEE DSP Enhancer Engine	92KHz/24bit (when EQ is used)
Digital Streaming USB Audio	DSD256 / PCM384KHz
Bluetooth Distance	> 10 Meter
Battery Hours	> 12 hours
Audio Input Source	<ul style="list-style-type: none"> ● Bluetooth wireless ● 3.5mm stereo phone jack ● Micro USB 2.0
PC Connection	Micro USB 2.0
Preset EQ Mode	Music - Game - Movie
Wireless Connection	<ul style="list-style-type: none"> ● Bluetooth V4.2/BLE ● Bluetooth Protocol : A2DP / AVRCP / HFP / SPP ● Bluetooth out : Class 2 ● Wireless distance : >10M ● Frequency : 2.4GHz ● Output : 2dBm
Digital Streaming USB Audio (Connection Example)	<ul style="list-style-type: none"> ● Hi-Res music player : DSD256/PCM384KHz ● Down-load music service ● PCWindows : ZEUS Player ● AndroidOS : SEIUN Player APP

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LEGAL DISCLAIMERS

SAFETY INSTRUCTIONS:
Keep these instructions. Heed all warnings. Follow all instructions. Do not use this apparatus near water. Clean only with dry cloth. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus that produce heat. Only use attachments / accessories specified by the manufacture. Unplug this apparatus during lightning storms or when unused for long periods of time. Refer all services to qualified service personal. Servicing is required when the apparatus has been damaged in any way, such as plug damage. Liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. Do not expose your product to temperatures outside the range of 0°C to 40°C (32°F to 104°F). Do not pierce, rush or set fire to your product.

SAFETY WARNINGS:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE. Do not expose the unit to dripping or splashing. Do not place any object filled with liquid, such as a vase, on the unit. Do not place naked flame sources, such as lighted candles, on the unit. To avoid overheating leave at least 10cm around the equipment for sufficient ventilation. Do not position the unit in direct sunlight, near heat sources or directly on top of heat producing Equipment. To avoid interference do not position the unit near strong electrical or magnetic radiation, such as near a power amplifier.

WARRANTY:
HYOTEN Audio Product is covered by warranty to be free from defects in material and Workmanship for one year from the date of purchase; subject to the limitations and conditions outlined below. This warranty covers the cost of labor and materials for any repair deemed necessary by the HYOTEN Service Team. Proof of purchase or a copy of the sales receipt will be required for any claim made against the warranty.

LIMITATIONS AND CONDITIONS:
The HYOTEN headphones are covered under the warranty only if the following conditions have been met:

It has been used in accordance with the instructions given in the section Safety. Instructions and Safety warnings elsewhere in this document.
It has not been altered or modified in any way.
It has not been purchased from an unauthorized dealer.
It has not been subjected to an unauthorized repair or service.
In order to make a claim against the warranty, the approved process for returning a faulty unit for repair or replacement must be followed.
To learn about this process please contact Support at: contact@hyoten.com

RADIO INTERFERENCE:
FCC Warning: This equipment generates and can radiate radio frequency energy and if not installed and used correctly in accordance with our instructions may cause interference to radio Communications or radio and television reception. It has been type-tested and complies with the limits set out in Subpart J, Part 15 of FCC rules for a Class B computing device.
EEC: This product has been designed and type-tested to comply with the limits set out in USE with USB 1.1, 2, 3, 3.1 only.
FCC Warning
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

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