

YH-L700A



## YH-L700A



Qualcomm aptX Adaptive

### Type

Headphone Type	Over-Ear
Folding / Swivel	✓ / ✓
Driver	Dynamic / ø40

### Battery

Charge Time	Approx. 3.5h
Usage Time	Approx. 34h (Advanced ANC=ON, 3D Sound Field=OFF) Approx. 11h (Advanced ANC=ON, 3D Sound Field=ON)

### Accessories

USB Power Cable	USB A-C (0.5m)
Carrying Case	✓ (Hard type)
Audio Cable	3.5mm to 3.5mm
Flight Adapter	✓

### Features

Frequency Response	8Hz - 40kHz
Line Input	✓ (3.5mm stereo mini, Power ON : ANC/HT Enable, Power OFF : Driver Direct)
Hi-Res	✓ (w/ wired connection)
Weight	330g
Mic	✓
Bluetooth (Version, codec)	Bluetooth® V5.0, SBC/AAC/Qualcomm® aptX™ Adaptive
Voice Control	Siri® / Google Assistant
Listening Care	✓ (Original)
Advanced ANC	✓ (Original)
Ambient Sound	✓
Listening Optimizer	✓ (Original)
3D Sound Field	✓ (Original)
Head Tracking	✓ (Original)
Yamaha Headphones Controller App	✓



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## HEADPHONES THAT ADAPT TO YOU AND YOUR ENVIRONMENT

With our unique and proprietary technology, we've created the only headphones and earphones that truly adapt to you and your environment.

### SIGNATURE 3D SOUND IMMERSION - 3D SOUND FIELD

A complete immersive sound space optimized for the ultimate multi-dimensional listening adventure. Headphones have drivers that are placed in close proximity to the ear and sounds are delivered to the eardrum without going through space. The sound source is clearly audible, but it makes localizing individual sounds and instruments quite challenging. 3D Sound Field draws on over 30 years of using Yamaha's CINEMA DSP processing in home theater products to transform 2-channel listening into a multi-channel experience. It localizes the sound source by using proprietary HRTF (head-related transfer function) audio technology, synthesizing binaural audio and rendering the two-channel sound source into a three-dimensional sound space.



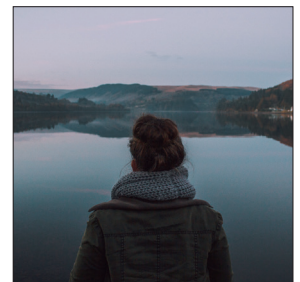
### OPTIMIZED FOR MY EXPERIENCE - LISTENING OPTIMIZER

Internal microphones constantly measure your ear canal and listening condition, ensuring pure reference sound for the ultimate listening outcome. Yamaha's Listening Optimizer utilizes an in-ear microphone to measure the seal and air leakage from different shaped ears every 20 seconds. Playback is optimized in real-time to correct the difference between the source and the actual listening condition, delivering a sound customized to the individual listener.



### CUT THE NOISE, NOT MY MUSIC - ADVANCED ACTIVE NOISE CANCELLING

Yamaha's unique noise cancellation technology never interferes with the sound source, eliminating only the noise and expressing the purist sound signal. In-ear microphones listen to the combined signals of music and noise, separating the signal processing of background noise and music. It achieves this by isolating the two from each other in a new, unique algorithm. The signal collected by the inner microphone analyzes the noise, calculating what should be removed from the playback music signal so that only noise is erased. This means there is no unnecessary processing of the music signal, preserving the purity of the music.



### GET CLOSER, NOT LOUDER - LISTENING CARE - Advanced

Listening Care aims to optimize the volume balance based on a static (unchanging) volume setting on your device. The YH-L700A takes a real-time, adaptive approach that uses the data for the past 5 seconds, calculating the average volume level every 0.7ms. The correction applied across a 4-band EQ is adaptive according to the average volume level. Optimization is therefore realized with significantly higher accuracy, relative to the content volume on an ongoing basis. Further, in order to obtain a more natural effect, the correction parameters are applied slowly over time. Your listening experience is customized to the music and your surroundings meaning a completely individualized sound, just for you.



YH-L700A



YH-E700A



YH-E500A

	YH-L700A	YH-E700A	YH-E500A
Listening Care	√(Advanced)	√(Advanced)	√
Ambient Sound	√	√	√
Active Noise Cancelling	√(Advanced)	√(Advanced)	√(Feedforward)
Listening Optimizer	√	√	—
3D Sound Field	√	—	—
Headphones Controller App	√	√	√
Call Function	√	√	√
Voice Assistance (Siri®/Google Assistant)	√	√	√
Continuous Playback Time*	Approx. 34h (Advanced ANC=ON, 3D Sound Field=OFF) Approx. 11h (Advanced ANC=ON, 3D Sound Field=ON)	Approx. 35h (Advanced ANC=ON)	Approx. 38h (ANC=ON)

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