

Overview

THX Certification is a globally recognized assurance of quality, consistency and performance. We blend art, technology, and the dynamics of real world listening and viewing environments to ensure products deliver the artist's true vision. As a technology entertainment leader, THX has created a headphone certification program to further define premium sound quality in the personal entertainment space. Developed to define a reference headphone listening experience, the THX Headphone Certification Program gives special attention to frequency response and its consistency, low distortion and exceptional noise isolation.

Goals

THX Certification for Headphones aims to identify the leading products in this category based on our rigorous testing and analysis.

Certification Process



How We Test

THX uses multiple headphone measurement test fixtures, ear models that simulate the soft pinna of the human ear and specialized microphones to characterize and validate headphone performance. In addition to industry standard headphone measurement devices, THX also measures performance using microphones placed in the listener's ear canal to further characterize and evaluate the headphones being tested.

What We Test

Frequency Response

Headphones are tested to ensure a well-balanced frequency response with minimal channel imbalance.

Distortion vs Output

The best sound comes from sufficient sensitivity to achieve a premium level of audio output while maintaining minimal distortion at the required sound pressure level.

Isolation

Attenuation of external noise is evaluated to gauge the isolation provided by the headphones.

Why THX Certification Matters

By combining industry recognized standards, extensive research and testing with leading headphone experts, and through work with audiology PhDs, THX has created a set of specifications and criteria to define a reference headphone performance standard that faithfully reproduces the content creator's intent.

- THX offers the industry's most rigorous testing process
- THX guarantees high performance and premium build quality
- THX Certified products are verified to deliver exceptional experiences