



HD 650
The Best*
Seat
in the House





Reference Class:

the sound of the concert hall in your own home.

Just relax and play your favorite concerto – you will think you are in the very best seat at the concert. The Sennheiser HD 650 are top-of-the-range, open, dynamic headphones with an extremely natural sound image and fidelity of reproduction. You don't just hear the music – you are immersed in it. This is the legendary Sennheiser sound quality – and it excels in the Sennheiser HD 650.







Music Becomes
Reality



The HD 650 by Sennheiser – enjoy sound in all its perfection.

You will be captivated by the pure and unadulterated reproduction of the HD 650 headphones. Discover the crystal clear world of sound and the ultimate in dynamics. The HD 650 have superbly low harmonic distortion and precision sound reproduction across the entire frequency range. The bass is well balanced and crisp, with authentic deep bass reproduction. The treble and mid range are well balanced and ensure superbly realistic voice reproduction.

Instrumental music is taken to a whole new level with the HD 650 headphones, which excel with their authentic reproduction of strings and wind instruments, for example. The top notes are pleasantly natural yet the lower notes are clear and vibrant.

In the HD 650, audiophiles will experience truly unique natural sound. With sound this good, long concerts in the comfort of your home are a certainty, as the HD 650 also set standards in comfort and convenience. The HD 650's are a genuine masterpiece, which will satisfy even the most demanding listener. HD 650 – the Reference Class.

Perfect in every detail. The experience Sennheiser gained in designing the legendary Orpheus headphones has been incorporated into the HD 650. They are superbly well balanced with crisp bass, excellent mid frequency response and a gentle, pleasantly natural treble. The HD 650 are the first dynamic headphones with such authentic and natural sound reproduction, both accurate and transparent.

The technology is innovative, and the workmanship immaculate. A specially developed acoustic silk ensures uniform precision damping over the entire frequency range and reduces harmonic distortion to an incredible 0.05%. The headphones are fitted with hand-selected, close-tolerance systems and the latest computer-design techniques have been used for the neodymium magnet system geometry to reduce intermodulation and harmonic distortion to a previously unattainable level.

The extremely lightweight aluminum voice coils ensure an extremely fast transient response; while neodymium iron magnets ensure maximum efficiency. The diaphragm was designed using the latest simulation technology. The design has a refined titanium-silver finish and the ear-pieces feature 62% open metal mesh covers. The high-quality oxygen-free copper (OFC) cable was specially developed for the HD 650. It is extremely resilient thanks to its Kevlar fiber reinforcement, creating the perfect link with minimum sensitivity to handling noise.

Words are one thing – experience is another. The HD 650's really have to be heard to be fully appreciated. So take your most demanding recordings to your nearest Sennheiser dealer and hear the music as it really is.



New high-quality Kevlar-strengthened OFC cable, matched to the headphones.



2-point headband pad, to ensure hours of absolute music comfort. No pressure on the sensitive middle portion of the head.

Technical Data

Frequency response	10 – 39,500 Hz (– 10 dB) 16 – 30,000 Hz (– 3 dB)
Transducer principle	dynamic, open
Frequency characteristic	diffuse field equalized
Nominal impedance	300 Ω
Characteristic sound pressure level (at 1 kHz)	102 dB (1 V _{rms})
Max. nominal continuous input power	500 mW as per EN 60-268-7
Total harmonic distortion	≤ 0.05 %
Contact pressure	approx. 3.4 N (± 0.3 N)
Ear coupling	circumaural
Weight (without cable)	260 g
Connector	$\frac{1}{4}$ " (6.3 mm) stereo jack plug
Adapter lead	$\frac{1}{4}$ " \rightarrow 3.5 mm stereo jack
Cable	Kevlar strengthened oxygen-free copper (OFC), 3 m



The HD 650 is fitted with a $\frac{1}{4}$ " (6.3 mm) jack plug which reduces sound losses through minimum contact resistance when connected to a hi-fi system. An adapter lead to 3.5 mm jack plug is also supplied.

Take a
Closer
Look.



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