Headzone® Home HT

5.1 Surround Headphone System with Head Tracker

Order # 498.610

Features

- Plug & Play:
  Connect to the receiver or DVD/Blu-ray player with only one cable
- Room Modelling:
  Room size and ambience are exactly adjustable
- Fascinating surround simulation with
  out-of-head localisation of the centre channel
- Head tracking:
  the acoustic image remains on location as in reality

Description

Headzone® Home HT is the ideal headphone system to reproduce surround sound in home cinema systems. Using Headzone® Home HT you will experience movies and concerts in a realistic sound.
The system comprises the HBC 1 base station and the DT 880 HT headphone with head tracker. The intelligent base station provides two digital inputs (optical and coaxial) to automatically recognise and decode surround signals such as Dolby*Digital, DTS®** or Dolby Pro Logic. Headzone® Home HT features the patented head tracking technology. Via the head tracker the headphone transmits per ultrasound information about its position to the head tracking receiver connected to the HBC 1 base station. The head tracking technology ensures that speakers, instruments and sounds in the film always come from the direction that the producer intended, even when turning the head. The virtual loudspeakers do not move to reproduce the whole acoustic reality of loudspeakers and room. The volume can easily be adjusted with the volume control integrated in the headphone cable.
Note: When playing Blu-ray discs with the new audio formats Dolby Digital Plus / Dolby True HD / DTS-HD Master Audio, the Blu-ray player transmits the separately contained surround "core" via the S/PDIF output. Thus, Headzone® Home provides about twice the resolution as known from conventional audio formats.

Spare Parts and optional Accessories

EDT 990 V	Ear pads for DT 880 HT, velours, silver-grey, circumaural	Order # 926.679

*TM Dolby Laboratories
**DTS is a registered trademark & the DTS logos and Symbol are trademarks of DTS, Inc.

Technical Specifications

HBC 1 base station

Digital 5.1 audio inputs	S/PDIF optical or coaxial
Digitial audio output	S/PDIF optical
decodes audio into	DTS®, Dolby Digital, Dolby Pro Logic, PCM Stereo
Power consumption	max. 20 W
Headphone output:	
Connection	1/4" stereo jack (6.35 mm)
Max. output level	100 mW into 250 Ω at 1 kHz
Signal-to-noise ratio	98 dB at 1 kHz, A-weighted
Frequency response	10 - 20,000 Hz, ± 0.3 dB
T.H.D. and noise	0.006%; 1 kHz into 250 Ω load at max. output level
Output impedance	100 Ω
Headphone impedance	32 - 600 Ω
Dimensions incl. frame	250 x 225 x 50 mm

Head tracker operating conditions

Range (distance)	0 - 4 m
Max. off-axis angle	Horizontal ± 45° Vertical ± 30°
Max. head angle	Front plane ± 60°
Max. number of adjacent head trackers	2

DT 880 HT headphone

Transducer type	Dynamic
Operating principle	Semi-open
Frequency response	5 - 35,000 Hz
Nominal impedance	250 Ω
Nominal SPL	96 dB
T.H.D.	< 0.2%
Power handling capacity	100 mW
Sound coupling to the ear	Circumaural
Nominal headband pressure	3.5 N
Weight (without cable)	325 g
Cable length and type	5 m / straight cable with volume control
Connection	Mini gold-plated stereo jack plug (3.5 mm) and 1/4" adapter (6.35 mm)

beyerdynamic GmbH & Co. KG
Theresienstr. 8 | 74072 Heilbronn – Germany
Tel. +49 (0) 71 31 / 617 - 0 | Fax +49 (0) 71 31 / 617 - 204
info@beyerdynamic.de | www.beyerdynamic.com

For further distributors worldwide, please go to www.beyerdynamic.com
Non-contractual illustrations. Contents subject to change without notice. E3 / Headzone® Home HT (06.11)