HEAD acoustics

Code 3322

BHS II

Binaural Headset for Aurally Accurate Recording and Playback

OVERVIEW

BHS II

Code 3322

Binaural headset for aurally accurate recording and aurally accurate playback with mobile frontends, such as SQuadriga III and SQobold.

BHS II is the ideal headset to perform binaural recordings quick and straightforward. You wear BHS II like headphones and can fit it perfectly to your head shape thanks to its adjustable earpieces and the adjustable headband. The low weight and the high wearing comfort of BHS II easily allow long periods of wearing without affecting you.

We recommend our mobile frontends SQuadriga III or SQobold as recording frontends which enable binaural recordings and aurally accurate playback and furthermore can be equipped with the individual equalization filter for your BHS II. Using the CLB I.2 adapter, you can also connect BHS II to other of our devices and use them to record binaurally, e.g., to many of the second generation HEAD*lab* modules, such as *lab*VF6 II, *lab*V12 II, and *lab*M6 II.

You can calibrate the installed TEDS enabled, high-quality ICP microphones using the included calibration adapter and a calibrator (¼") thereby ensuring consistent and comparable measurements.

FEATURES

Binaural recording and playback of sound events

Factory default, individual equalization filter, compatible with many of our frontends and software solutions

Calibrateable ICP® microphones with TEDS function

Comfortable handling and low weight

Removable windshield

APPLICATIONS

Mobile, binaural measurements

Quick identification of noticeable sound components

Examination and optimization of the sound quality of technical products

COMPATIBILITY

SQuadriga III

SQobold

B2U

Via CLB I.2 adapter (recording only):
› *lab*VF6 II / *lab*V12 II / *lab*M6 II
› *lab*COMPACT12/labCOMPACT24

DETATLS

Combined with Handheld Frontends

Combined with our handheld frontends SQuadriga III and SQobold or the USB adapter with recording and playback equalization B2U, you not only can record with BHS II but also play back sound files. In this way, you can monitor a recording on site or listen to the result immediately after completing the measurement.

With the BHS connector, our handheld frontends SQuadriga III and SQobold feature a dedicated connector for BHS II. If you connect BHS II to this connector, BHS II is automatically detected by the frontend and true-to-level and correctly equalized playback is ensured.

Recording with HEAD*lab*

You can also use BHS II together with a HEAD*lab* system to perform aurally accurate recordings. For this, simply connect BHS II using the CLB I.1 adapter to a suitable HEAD*lab* module which is connected to a computer via a HEAD*lab* controller. On the computer, you use the Recorder of ArtemiS SUITE (licenses APR 000 and APR 004 are required) which automatically configures, equalizes, and saves the BHS II recordings to the computer.

This together with the high wearing comfort and the easy handling of BHS II make the combination of BHS II and HEAD*lab* particularly popular for aurally accurate recordings in a vehicle.

Scope of Delivery

› BHS II (code 3322)
  Binaural headset for aurally accurate recording and playback
› HWS II (code 3339)
  Windshield for measurements with increased wind force
› Calibration adapter
› Setup Package with equalization filter package and additional software

Optional Accessories

› CLL V!.3 (code 9843-3)
  Extension cable for BHS II, 3 m
› CLB I.2 (code 9847)
  BNC adapter for recording of supported devices, e.g., *lab*VF6 II or *lab*V12 II via two BNC connectors
› Recording software, e.g., the Recorder of ArtemiS SUITE (licenses APR 000 and APR 004 are required)

Data Sheet BHS II Subject to change, last update: 11/23

TECHNICAL DATA

General	
Number of channels	2
Connectors	LEMO 14 pin
Equalization	
Recording	ID with SQuadriga III (SQuadriga II also), SQobold, or the Recorder of ArtemiS SUITE (licenses APR 000 and APR 040 are required)
Playback	ID, FF, DF, USER, LIN (no equalization) with SQuadriga III (SQuadriga II also), SQobold, or the Recorder of ArtemiS SUITE (licenses APR 000 and APR 040 are required)
Power supply	18 V – 24 V
Ear coupling	Supraaural
Emitted interference	According to EN 61326-1, Class B equipment
Interference immunity	According to EN 61326-1
Security	According to EN 61010-1
Cable length	2 m
Operating temperature	-10 °C – +60 °C/14 °F – 140 °F
Storage temperature	-10 °C – +70 °C/ 14 °F – 158 °F
Weight	215 g

Recording	
Equivalent noise level	Typ. 27 dB(A)
Frequency range	20 Hz – 20000 Hz
Microphone supply (ICP®)	2 mA – 10 mA
Limit sound pressure level	Max. 130 dB$_{SPL}$

Playback (with mobile frontends)	
Nominal impedance	90 Ω
Transducer principle	dynamic, open
THD at 1 kHz	<1% at 110 dB$_{SPL}$ (300 Hz – 3000 Hz)
Audio transmission range	28 Hz – 17100 Hz

ICP® is a registered trademark of PCB Group, Inc.

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