



## Features

- Binaural recording and playback of sound events

### Connection to SQadriga II and SQobold

- Recording and playback
- Direct connection via the headset input to
  - SQadriga II (as of SQadriga II, version B)
  - SQobold
- Configuration and equalization of the BHS II when connected to the headset inputs of SQadriga II and SQobold (plug & play)

### Connection to front ends supported by HEAD acoustics

- Only recording
- Connection via CLB I.2 adapter (BNC ↔ Lemo):
- Configuration and equalization of the BHS II via SQadriga II, SQobold or the HEAD Recorder software
- Front ends supported by HEAD acoustics
  - HEADlab (labV6, labV12 via CDB II.1, labM6 via CBL X.01)
  - SQadriga II
  - SQobold
  - DATaRec 4

## Equalization

- Factory-made, each BHS II is equalized. The user receives the generated individual equalization filter with the included Documentation and Equalization CD.

The equalization filter is used with SQadriga II, SQobold and the HEAD Recorder.

- Recording equalization: ID
- Playback equalization options: ID, FF, DF, USER, LIN (no equalization)

## Functions

- Calibratable microphones (microphone calibrator with 1/4" adapter)
- TEDS functionality according to IEEE 1451.4
- Removable windscreen
- Easy handling
- Low weight

## DATA SHEET

### BHS II (Code 3322)

Binaural headset for aurally accurate recording and (with SQadriga II and SQobold) playback

## Overview

The calibratable BHS II headset is an ideal tool for making binaural recordings in a quick and easy way. The user wears the BHS II like a headphone. With its adjustable ear pieces and headband, the headset adapts to heads of any shape and size.

SQadriga II (version B or newer) and SQobold permit aurally accurate recordings and playback, if they have been programmed with the individual equalization filter for the connected BHS II. SQadriga II and SQobold ensure the correct playback level and equalization, too.

Furthermore, with the CLB I.2 adapter, the BHS II can be connected to an ICP front end supported by HEAD acoustics in order to make aurally accurate recordings.

The high-end ICP microphones feature TEDS functionality and can be calibrated with a microphone calibrator via a 1/4" adapter.

The handy windscreen fits the BHS II perfectly and can easily be attached, removed or replaced.

With its low weight and easy handling, the BHS II is suitable for a wide range of applications.

## Scope of Supply

- BHS II (Code 3322)  
Binaural headset for aurally accurate recording and (with SQadriga II and SQobold) playback
- Windscreen
- Calibration adapter
- CD (Documentation and Equalization)

## Optional

- CLL VI.3 (Code 9843-3)  
Extension cable for BHS, 3 m (118")
- CLB I.2 (Code 9847)  
Adapter for connecting the BHS II to an ICP front end supported by HEAD acoustics (only recording)
- HEAD Recorder  
ArtemiS SUITE Data Acquisition Module (Code 5004)  
Required:  
ArtemiS SUITE Basic Framework (Code 5000)  
For measurements with the DATaRec 4 system, the Data Acquisition Support for DATaRec 4 Module ASM 28 (Code 5028) is required

## Technical Data

### General

Connectors:	Lemo 14-pin
Equalization	
Recording:	ID with SQadriga II/SQobold/HEAD Recorder software
Playback:	ID, FF, DF, USER, LIN (no equalization) with SQadriga II [as of version B]/SQobold
Power supply:	18 V to 24 V
Cable length:	2 m (78.5")
Weight	
without cable:	160 g (0.35 lb)
with cable:	215 g (0.48 lb)
Operating temperature:	-10 °C to 60 °C (14 °F to 140 °F)
Storage temperature:	-20 °C to 70 °C (-4 °F to 158 °F)
Radiated emission according to:	EN 61326-1, equipment class B
Radiated immunity according to:	EN 61326-1
Safety according to:	EN 61010-1

### Recording

Equivalent noise level:	Typ. 27 dB(A)
Frequency response:	20 Hz to 20 kHz
Microphone supply (ICP):	2 mA to 10 mA
Maximum sound pressure level:	130 dB <sub>SPL</sub> (THD ≤ 1 %)

### Playback (SQadriga II [as of version B]/SQobold)

Nominal impedance:	90 Ω
Transducer type:	dynamic, open
Ear coupling:	supra-aural
Distortion at 1 kHz:	<1 % at 110 dB <sub>SPL</sub> (300 Hz to 3000 Hz)
Audio transmission range:	28 Hz to 17100 Hz

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