# **HEAD** acoustics Ebertstraße 30a 52134 Herzogenrath

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## **Features**

- Head-shoulder unit with ICP measurement microphones
- Connection to frontends recommended by HEAD acoustics
- · Low inherent noise
- Equalization options: ID, FF, DF, USER, LIN (no equalization). During the recording the signals can be equalized either with the labHSU frontend for example or with the recording module of ArtemiS SUITE. Furthermore, the equalization can be carried out afterwards by using the analysis software ArtemiS SUITE.
- **TEDS** TEDS data can be read by means of labHSU, HEADlab and Compact systems, and SQuadriga III, for example
- Calibratable with pistonphon
- Threaded mounting platform on the top side of the HSU III.2 head for attaching e.g. the laser pointer TLP
- 3/8" tripod socket on the bottom of the HSU III.2 head

### Connections to front ends from **HEAD** acoustics

- Binaural frontend labHSU (stand-alone/frontend mode)
- HEADlab input modules
  - labHSU
  - labV6HD
  - labV6 / labVF6
  - labV12 / labV12-V1 / labV12-V2
  - labM6
  - labCF6
- Mobile recording and playback systems
  - SQuadriga III
  - SQobold
  - SQuadriga II

# DATA SHEET

## HSU III.2 (Code 1391)

Head-shoulder unit with ICP microphones

#### Overview

The head-shoulder unit HSU III.2 is an artificial head with ICP microphones for aurally-accurate, binaural recordings. HSU III.2 allows recordings including the characteristics of human hearing perception. Furthermore, HSU III.2 is calibratable and directly ready for use.

Like a conventional standard microphone the HSU III.2 is connected via BNC with a recommended front end and this way it also gets the necessary power supply.

The calibration of the high-quality ICP microphones can be carried out any time with a pistonphone.

- Compact systems
  - labCOMPACT12
  - labCOMPACT24
- Binaural, digital equalizer BEQ II
- BrakeOBSERVER front end MMF III.0

## Connections to other front ends

DATaRec 4 series



## Scope of supply

- HSU III.2 (Code 1391) Head-shoulder unit with ICP measurement microphones
- 2 x CBB I.2 (Code 1175-2) cables BNC  $\leftrightarrow$  BNC, 2 m (78.74'')
- SBH I (Code 1315) Stand base
- Screwdriver (for HSU ears)
- Manual
- DVD: Equalization & Documentation, individual HSU III.2 equalization included

## **Accessories**

- HSC IV (Code 1524) Carrying case
- HMT II Code 1962) Height-adjustable tripod
- HSM V (Code 1520) Seat Mount Adapter

#### **Accessories**

- HTB VI (Code 1574) **HEAD Torso Box**
- HWS (Code 1960) Wind screen for outdoor recordings
- TLP (Code 1967) Triaxial laser pointer

## Adapters for connecting HSU III.2 to front ends from **HEAD** acoustics

- labV12 / labV12-V1 / labV12-V2 / labCOMPACT12 / labCOMPACT24 / MMF III.0:
  - CDB II.1 (Code 3556) Breakout cable D-Sub 25-pin ↔ 6 x BNC male, 1 m (39.3")
  - CDB X.1 (Code 3792) Breakout cable D-Sub 25-pin ↔ 6 x BNC female, 1 m (39.3")

## Adapters for connecting HSU III.2 to front ends from **HEAD** acoustics

- labM6:
  - CBL X.01 (Code 3791-01) Adapter cable, 7-pin LEMO  $\leftrightarrow$ BNC, 10 cm (3.94")
- SQuadriga III / SQobold / SQuadriga II:

HSU III.2 can directly be connected to the BNC inputs. For connecting HSU III.2 to the headset inputs the adapter CLB 1.3 is required.

- CLB I.3 (Code 9848) Adapter LEMO 14-pin ↔ 2 x BNC, female, 20 cm (7.9")

## Recording software

• ArtemiS SUITE Recorder Data Acquisition Module, ASM 04 (Code 5004)

## **Technical Data**

Interface	2 x BNC
Microphones:	2 x 1/2" microphones (permanently polarized)
Frequency response:	3.5 Hz to 20 kHz (±2 dB)
Sound pressure level (max.):	135 dB <sub>SPL</sub> (<3 % distortion at 1 kHz)
Dynamic range:	119 dB
Inherent noise, incl. impedance converter (acoust.):	15.5 dB <sub>SPL</sub> (A), typ. (without equalization)
Sensitivity (typ.):	50 mV/Pa, nominal
Power supply:	18 V to 30 V
Power input (per channel):	2 mA to 10 mA
Impedance converter	
Distortion factor with sinus 1 kHz:	<0.01 %, 1 kHz, electr. at 0 dB(V)
Nominal output impedance (typ.):	<110 Ohm
Input impedance converter, short-circuit inherent noise (typ.):	-110 dB(V)
THD+N (electr.) at 1 kHz (sinus 50 %) signal level at -2 dB(V):	-91 dB(V)
Thread mounting platform:	M6
Tripod socket:	UNC 3/8"
Dimensions:	450 mm x 400 mm x 180 mm (WxHxD) (17.72" x 15.75" x 7.09")
Weight:	4.3 kg (9.48 lb)
Operating temperature:	0 °C to 50 °C (32 °F to 122 °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
Physical dimensions of the head designed according to ITU P.58, table 1 and comparable to ANSI 3.36, table 1. Please note: Without HEAD Torso Box, some dimensions in P.58, table 1 are not applicable.	

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The monaural frequency responses comply with ITU P.58, table 4 and to those that can be derived from ANSI 3.36, table 3.

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