



## Features

- Subwoofer for premium-quality playback of low-frequency airborne sound components
- Low bass playback in the range from 35 Hz to 120 Hz (-10 dB)

The lower cut-off frequency depends largely on the excited room volume. The smaller the space, the more clearly the lower cut-off frequency can be shifted downwards, which is measured in the free field. Depending on the application, a low-bass playback in the range of 10 Hz to 120 Hz is possible.

- Direction independent sound radiation
- Rugged bandpass housing with two drivers in push-pull arrangement
- Closed design for membrane protection
- Compact size for easy and quick installation in a vehicle environment (e.g. in the trunk of the SoundCar from HEAD acoustics)
- Power amplifier and necessary cabling included
- Adjustable input voltage range for high-end power amplifier

## Applications

- Realistic playback of sound scenarios with the need for low frequencies, e.g. in small rooms or in SoundCar from HEAD acoustics

## Scope of supply

- HSW II.1 (Code 2952) HEAD subwoofer
- High-end power amplifier DC 3 from KMT
- 2 x Speakon cable, 10 m (32 ft)
- 2 x CXX II.1 (Code 5177-1) Cable AES/EBU XLR 3-pin male ↔ XLR 3-pin female, 1 m (39")

## Recommended accessories

- *labO2* (Code 3731) 2-channel playback equalizer with Line outputs and USB interface
- *labO2-V1* (Code 3731-V1) 2-channel playback equalizer with Line outputs, headphone connector, and USB interface

## DATA SHEET

### HSW II.1 (Code 2952)

Bandpass subwoofer from HEAD acoustics for high-quality low frequency playback in SoundCar or small rooms

#### Overview

The HSW II.1 is a subwoofer from HEAD acoustics, which is especially suitable for playback in a vehicle environment.

For example, for a substantiated judgment of vehicle noise in the SoundCar playback environment, it is necessary to include the low-frequency airborne sound components for realistic acoustic playback of a driving scenario. That way, the sound balance is as authentic as possible and the perceptive judgments of the driving noise can be put on a solid basis. This is made possible by the HSW II.1, which can be easily installed in the trunk due to its relatively compact dimensions.

The construction principle of the HSW II.1 is based on the proven bandpass housing with two drivers working in push/pull operation.

The HSW II.1 subwoofer is connected to the included power amplifier KMT DC3.

### SoundCar from HEAD acoustics

SoundCar is used for the multi-dimensional sound playback in a real vehicle. Not only the acoustical but also the vibration aspect of the sound perception is taken into account. The required hardware for playback and controlling the system is mounted into the engine compartment of the vehicle (with the engine removed).

If you have any questions regarding SoundCar, please do not hesitate to contact your HEAD acoustics support team.

## Technical Data

### HSW II.1

Nominal load:	2 x 120 W <sub>RMS</sub>
Nominal impedance:	2 x 8 Ohms
Frequency response free field: SoundCar:	35 Hz to 120 Hz (-10 dB) 10 Hz to 100 Hz (-6 dB), requires <i>labO2</i> or <i>labO2-V1</i>
Enclosure design:	Bandpass (push-pull arrangement)
Dimensions:	360 x 380 x 500 mm (WxDxH) (14.17" x 14.96" x 19.68")
Weight:	31 kg (68.3 lb)

### Power Amplifier DC 3 (included)

Power (sine) at 8 Ohms:	2 x 200 W
Power (sine) at 4 Ohms:	2 x 285 W
Power (sine) at 2 Ohms:	2 x 310 W
Power (sine) at 4 Ohms bridged:	1 x 580 W
Frequency response:	20 Hz to 20000 Hz
Slew rate:	30 V/ $\mu$ s
Total distortion:	0.01 %
Attenuation factor at 8 Ohms / 1 kHz:	250
Signal to noise ratio:	> 100 dB
Input impedance (symmetric):	20 kOhms
Channel separation:	> 65 dB
Input sensitivity:	Constant gain 33 dB / 1 V
Input connectors:	XLR
Output connectors:	Speakon
Dimensions:	482 x 358 x 88 mm (WxDxH) (17" x 14.1" x 3.5")
Weight:	8.5 kg (18.7 lb)



The high-end power amplifier DC 3 from KMT is developed in a class-h-technology with bipolar final transistors. The operation modes fullrange, top and bass can be selected per channel. The separation frequency amounts 120 Hz with 24 dB edge steepness.