

Features

- High-quality, versatile HEAD VISOR microphone array for real-time localization of sound sources

Housing

- Compact, rugged housing including:
 - 7 spiral arms (56 microphones)
 - 3 cameras
 - front end
- Easy setup and disassembly of the array

Handling

- Only one network cable required for the PC connection
- High flexibility and mobility by mounting the VMA II.1 on the (optional) VMT I.1 tripod
- Interactive working
- Battery mode via *labPRW I.1*

Source Mapping

- Distance between microphone array and sound source: 30 cm to 200 m (1 ft to 650 ft)
- Microphone dynamic range: 100 dB
- Source mapping (standard beamforming):
 - Dynamic range: 13 dB
 - Frequency range: 400 Hz to 20 kHz

- Source mapping (advanced algorithms from HEAD acoustics - depending on the sound field):
 - Dynamic range: 20 dB to 30 dB
 - Frequency range: 300 Hz to 20 kHz
 - Near-field frequency range: 20 Hz to 2 kHz

MultipleEye Technology

- Continuous, synchronous video image in real-time
- Precise distance measurement to all points in the image

Connecting Additional Sensors

- Near-field probe from HEAD VISOR for analyzing of stationary low-frequency sound components (optional)
- Power supplied to HEAD VISOR Probe by VMA II.1 via USB
- Connection of sensors for additional reference and pulse channels:
 - directly via a HEADlab signal module (e.g. *labV6*)
 - via a synchronized HEADlab system (allowing the use of several different signal modules)

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

DATA SHEET

VMA II.1 (Code 7522)

Array with 56 microphones, three cameras, and built-in front end

Overview

VMA II.1 is an innovative microphone array from HEAD acoustics. Combined with the HEAD VISOR software, it is a perfectly matched system for real-time localization of sound sources.

The high-end functional design of the VMA II.1 makes it very easy to set up the system. Thanks to their convenient snap-in mechanism, the seven spiral arms of the array can be quickly mounted or removed, making the entire unit highly transportable.

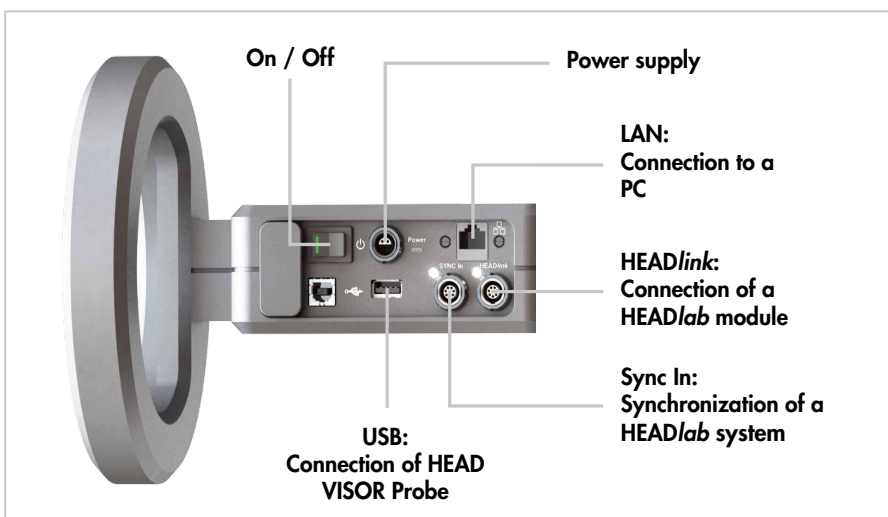
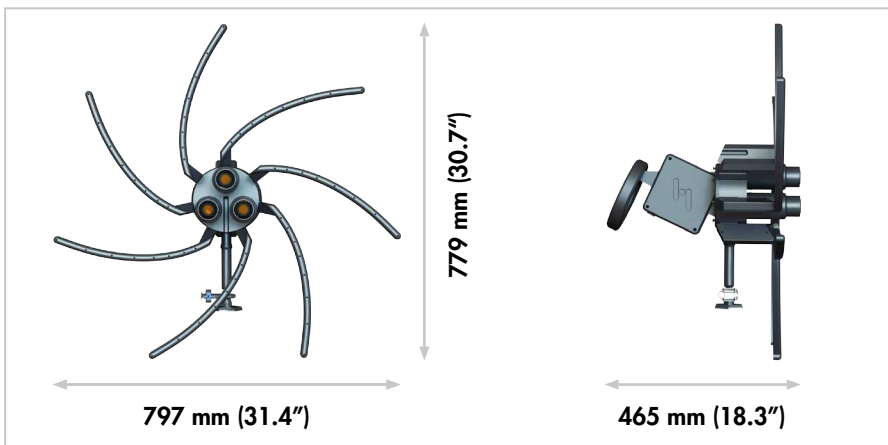
As soon as the system is turned on, the HEAD VISOR software immediately delivers a video image with a synchronized graphical overlay showing a high-resolution map of the sound sources. This allows users to obtain the necessary information about the cause of interfering noise without any delay.



In a few easy steps, the VMA II.1 is safely mounted on the VMT I.1 tripod.

Technical Data

Diameter (array):	797 mm (31.4")
Max. power consumption:	30 W
Max. battery mode via <i>labPWR</i> I.1:	1.5 hrs
Microphone capsules Number of microphones: Analog signal processing, S/N: Sampling rate: Bandwidth: Dynamic range (data acquisition):	56 > 100 dB(V) 48 kHz 20 kHz 30 dB to 130 dB
Industrial-grade cameras Number of cameras: Sampling rate: Resolution:	3 23 Hz for the center camera and 6 Hz for the assistance cameras 656 x 494 pixels
Dimensions: incl. tripod VMT I.1 and rollers:	797 x 465 x 779 mm (WxDxH) Min. 1835 (72.2") to max. 2096 mm (82.5") (height)
Weight: incl. tripod VMT I.1 and rollers:	12.25 kg (27 lb) 25.65 kg (56.5 lb)
Operating temperature:	5 °C to 40 °C, non-condensing (41 °F to 104 °F)
Storage temperature:	-10 °C to 70 °C, non-condensing (14 °F to 158 °F)



Scope of supply

- VMA II.1 (Code 7522)
Array with 56 microphones, three cameras, and built-in front end
- HSC VII.2 (Code 7532)
Carrying case for VMA II.1
- Power supply
- CLL XII.10 (3795-10)
LEMO extension cable for power supply, 10 m (393.7")
- Network cable, 10 m (393.7")
- VCA I (Code 7578)
1/2" adapter for calibration of the VMA II.1 microphones via piston-phone

Hardware extensions (optional)

- VMT I.1 (Code 7580)
Tripod for VMA II.1



- HEAD VISOR Probe (Code 7523)
Near-field probe for the acquisition of low-frequency sound components



- HEADlab Signal Module
e.g. *labV6* (Code 3721)
6-channel Line-/ICP module with BNC



- HEADlab-System (Code 3700ff)
Modular multi-channel 24 bit front-end system from HEAD acoustics



- labPWR* I.1 (Code 3711)
PowerBox for battery mode (55 Wh)



- HWS II.7 (Code 7579)
HEAD VISOR windscreen set, 7 pcs.

