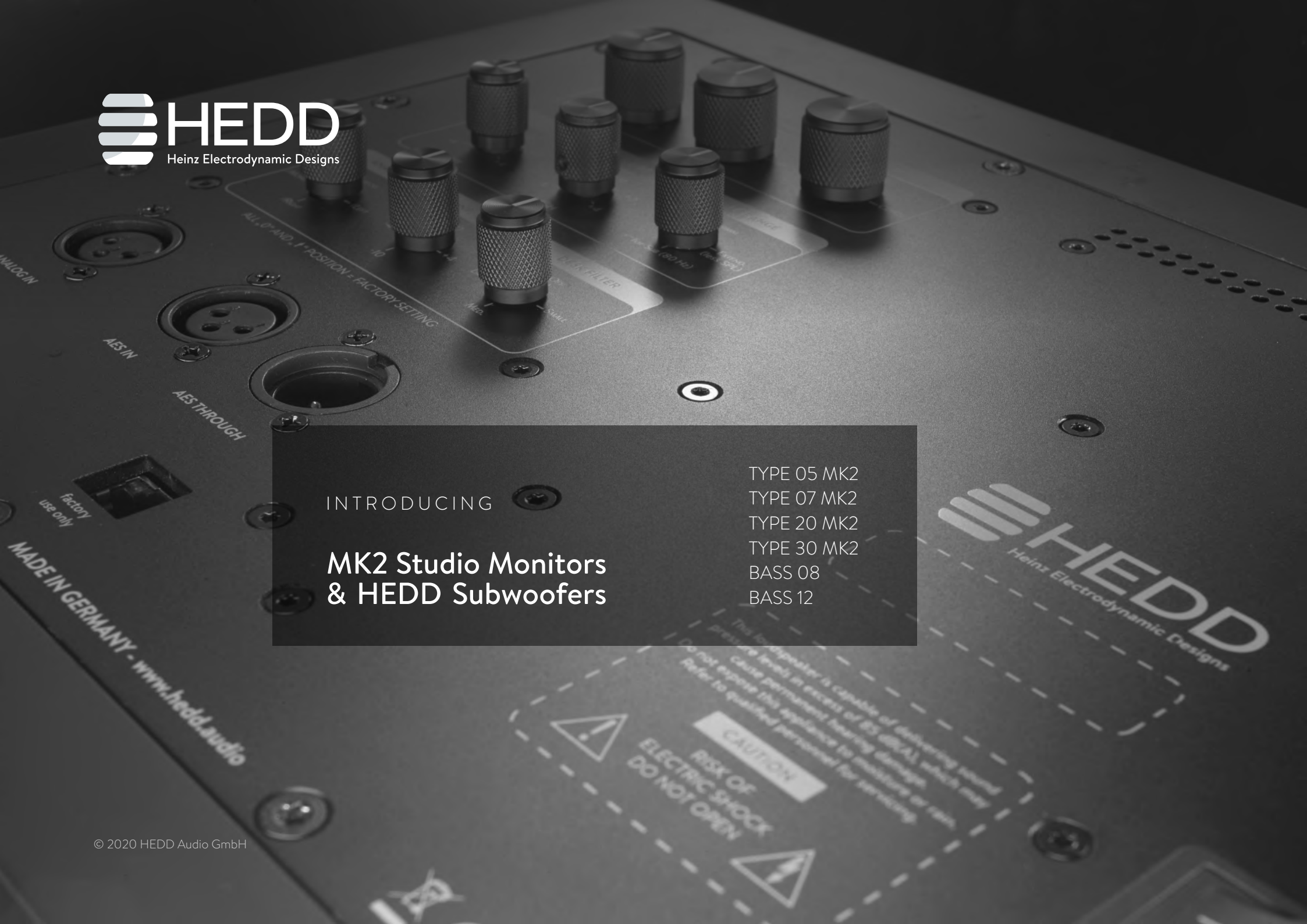

INTRODUCING

MK2 Studio Monitors & HEDD Subwoofers

TYPE 05 MK2
TYPE 07 MK2
TYPE 20 MK2
TYPE 30 MK2
BASS 08
BASS 12

HEDD | Heinz Electrodynamic Designs

HEDD
Heinz Electrodynamic Designs

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HEDD
Heinz Electrodynamic Designs

PRODUCT OVERVIEW

Available wordlwide starting **January 2021**

TYPE 05 MK2	TYPE 07 MK2	TYPE 20 MK2	TYPE 30 MK2	BASS 08	BASS 12
1.600 € per pair incl. tax	2.000 € per pair incl. tax	4.000 € per pair incl. tax	5.200 € per pair incl. tax	1.000 € per unit incl. tax	2.000 € per unit incl. tax

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“The new HEDD product line demonstrates what can be achieved today both in audio quality and control versatility. We believe that we are about to set a new benchmark within MI / Pro Audio whilst increasing the company’s potential to be successful in both the Broadcast- and Consumer Audio realm.”

- **Klaus Heinz**, CTO HEDD Audio

A New Generation of HEDD Studio Monitors and Subwoofers

Grown out of our highly praised Series ONE studio monitor line, HEDD is proud to announce brand-new MK2 models and additional subwoofers.

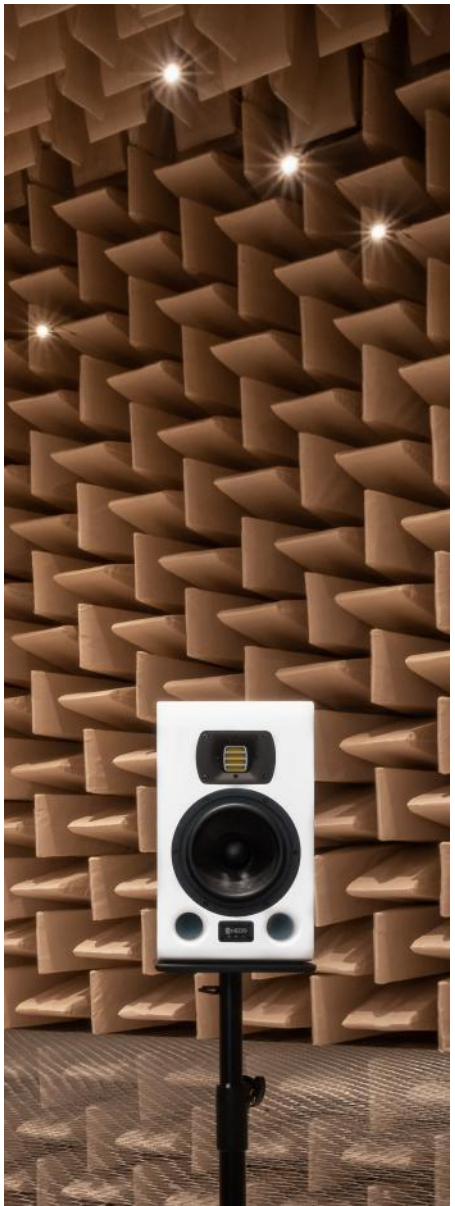
HEDD **TYPE 05** MK2 (black/white) - Studio Monitor, 2-way, 2x100W with DSP
HEDD **TYPE 07** MK2 (black/white) - Studio Monitor, 2-way, 2x100W with DSP
HEDD **TYPE 20** MK2 (black/white) - Studio Monitor, 3-way, 3x300W with DSP
HEDD **TYPE 30** MK2 (black/white) - Studio Monitor, 3-way, 3x300W with DSP
HEDD **BASS 08** (black) - Subwoofer, 8", 300W with DSP
HEDD **BASS 12** (black) - Subwoofer, 12", 700W with DSP

Three striking innovations put this new and advanced DSP-powered speaker line on top of today's monitoring landscape:

1. **HEDD Lineariser® Integration**

2. **»CoP« Technology (Closed or Ported)**

3. **The First Phase-Linear Subwoofer / Satellite System**



HEDD LINEARISER® INTEGRATION

Implemented in the MK2 and subwoofer models is the HEDD Lineariser®, a phase linearisation tool that leads to perfect impulse responses and an audibly improved spatial reproduction.

»CoP« TECHNOLOGY (Closed or Ported)

Ever since there have been loudspeakers, there have been 2 different design approaches to get a good bass response: closed box design, sometimes called infinite baffle, and bass reflex speakers, or ported designs. By offering removable plugs for the bass ports, combined with advanced FIR (Finite Impulse Response filtering), we now give our users the choice between these two worlds: A pin-point transient response / optimum accuracy (closed cabinet approach) or the advantages of a dynamic and low-reaching bass-ported design with increased SPL.

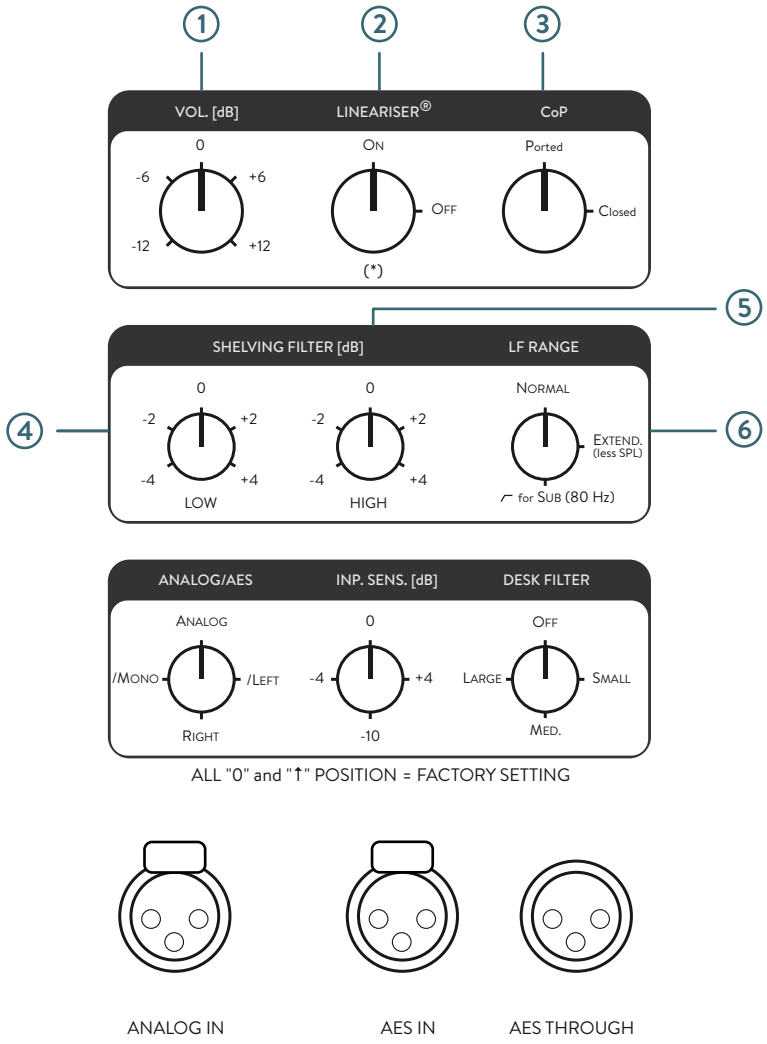
Foam plug and HEDD screw for closing the bass port.

THE FIRST LINEAR SUBWOOFER / SATELLITE SYSTEM

(GDC for Group Delay Compensation)

We are introducing a completely phase linear Sat-Sub system, a real first. These are the first Satellite Sub systems that are completely "...right in time" by applying switchable group delay at the satellite output. The potential listener distances between subwoofers and satellites can be compensated in a ± 2 m range, together with HEDD MK2 monitors a Linear Phase satellite system can be realized.

MK2 BACK PANEL EXPLAINED



FUNCTIONS

1. Volume
/ adjust the output volume

2. HEDD Lineariser®
/ activate or deactivate the HEDD Lineariser® for full phase linearity

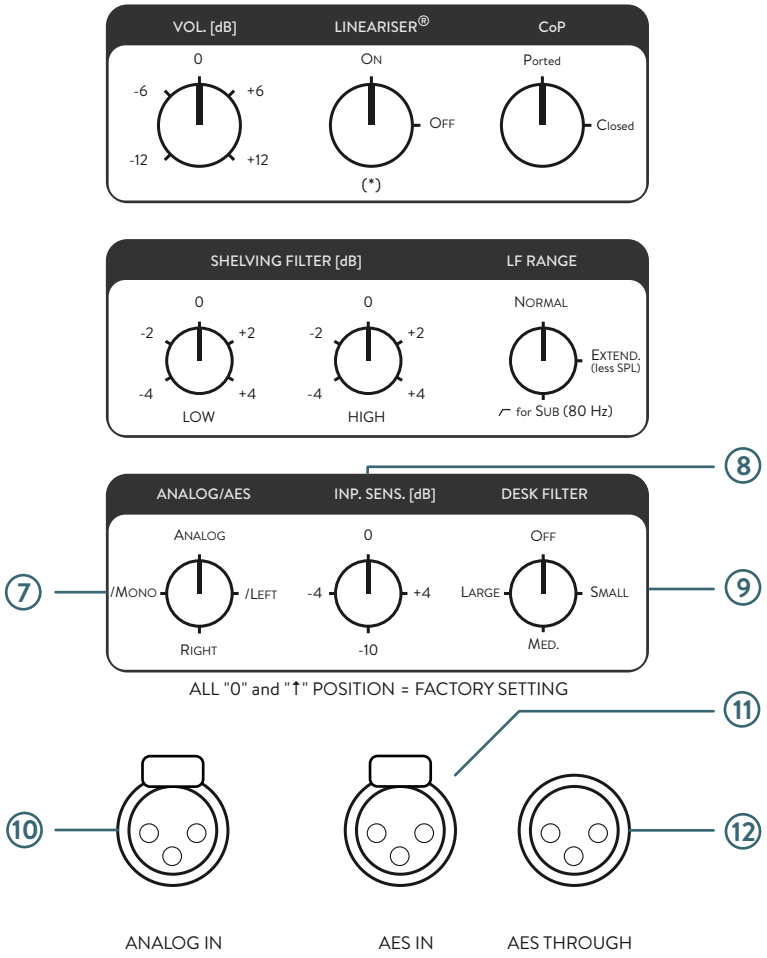
3. CoP
/ change the DSP settings according to whether you are using the speakers ported (without plug) or closed (with plug)

4. Low shelf filter
/ changes bass response in a ± 4 dB range in 1 dB steps to adapt the speakers to your room

5. High shelf filter
/ changes treble response in a ± 4 dB range in 1 dB steps to adapt the speakers to your room

6. Low frequency range
/ optionally extend the bass range (at the expense of a lower max. SPL) or cut off the bass for use as satellite with subwoofers

MK2 BACK PANEL EXPLAINED



FUNCTIONS (continued)

7. Input selection

/ select your active input or stereo channel / please note that in analog mode the stereo channel is defined by your pre-amp

8. Input sensitivity

/ adjust the input volume by increasing the input by up to 4 dB (warning: clipping may occur) or lowering it by up to 10 dB

9. Desk filter

/ correct unwanted reflections of desks and workspaces

10. Analog input

/ use this balanced XLR input connection to connect your HEDD monitors with an analog balanced output amplifier

11. Digital input

/ use this digital AES connection to connect your HEDD monitors with a compatible source, for example a digital interface

12. Digital passthrough

/ use the AES output connection to pass through the input information, for example to chain multiple speakers

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MK2 STUDIO MONITORS SPECIFICATIONS

HEDD Studio Monitors MK2	TYPE 05 MK2	TYPE 07 MK2	TYPE 20 MK2	TYPE 30 MK2
Woofer (honeycomb diaphragm)	5" (1.5" voice coil)	7" (1.5" voice coil)	7" (2" voice coil)	7" (2" voice coil)
Midrange (honeycomb diaphragm)	–	–	4" (1.25" voice coil)	4" (1.25" voice coil)
Tweeter	HEDD AMT	HEDD AMT	HEDD AMT	HEDD AMT
Crossover frequencies (48 db/oct)	2 500 Hz	2 300 Hz	250 / 3 200 Hz	250 / 3 200 Hz
Input analog / digital (AES)	1x / 1x XLR	1x / 1x XLR	1x / 1x XLR	1x / 1x XLR
Input impedance (balanced)	22 kΩ	22 kΩ	22 kΩ	22 kΩ
Input gain	± 12 dB	± 12 dB	± 12 dB	± 12 dB
Input sensitivity (A/D modulation)	-10 /-4 / 0 / +4 dB	-10 /-4 / 0 / +4 dB	-10 /-4 / 0 / +4 dB	-10 /-4 / 0 / +4 dB
Output: AES "through"	XLR	XLR	XLR	XLR
HEDD Lineariser®, disengageable, delay	10 ms	10 ms	10 ms	10 ms
Shelve filters high / low (.5 dB steps)	± 4 dB	± 4 dB	± 4 dB	± 4 dB
LF range (-3 dB): normal / extended / satellite	45 / 38 / 80 Hz	38 / 30 / 80 Hz	32 / 26 / 80 Hz	32 / 26 / 80 Hz
Desk filter: small / medium / large (180 Hz)	-1 / -2 / -4 dB	-1 / -2 / -4 dB	-1 / -2 / -4 dB	-1 / -2 / -4 dB
Frequency response (-3 dB)	45 - 40 000 Hz	38 - 40 000 Hz	32 - 40 000 Hz	32 - 40 000 Hz
Maximum SPL (per pair)	112 dB	116 dB	120 dB	125 dB
Power amplifier 110 - 240 V	2x 100 W	2x 100 W	3x 300 W	3x 300 W
AD/DA Conversion	96 kHz / 32 Bit	96 kHz / 32 Bit	96 kHz / 32 Bit	96 kHz / 32 Bit
Cabinet with satin lacquer finish	black or white	black or white	black or white	black or white
Dimensions in mm (H x W x D)	308 x 180 x 245	370 x 220 x 300	280 x 358 x 338	280 x 530 x 338
Weight	6.4 kg	9.9 kg	15.4 kg	21.5 kg
Warranty	2 years	2 years	2 years	2 years

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Improved components and materials, better streamlined production, higher quality control
HEDD MK2 monitors and subwoofers are still being handmade in Berlin, Germany

HEDD BASS 08 and BASS 12

BASS 08 and BASS 12 are the first HEDD subwoofers to appear on the market. They excel in precise low frequency reproduction by newly developed drive units, excellent high power amplifiers and the use of linear phase (or FIR) filters down to 20 Hz. Furthermore they offer a satellite output that can influence the output (group delay) of the units to achieve a complete linear phase operation of satellite-sub systems – if HEDD monitors with switched on Lineariser are in place.

Alltogether we introduce 3 major innovations into the world of subwoofers:

1. CoP (Closed or Ported) / An innovative choice for the bass response nobody had offered before: removable plugs in the ports together with adapted FIR (Finite Impulse response) filtering allow optimum results in either operating mode.

2. Switchable HEDD Lineariser® to avoid any phase errors within the low frequency reproduction down to 20 Hz in either mode (closed or ported). A complete Linear Phase operation down to 20 Hz is achieved with high resolution by using a separate clock for low frequencies.

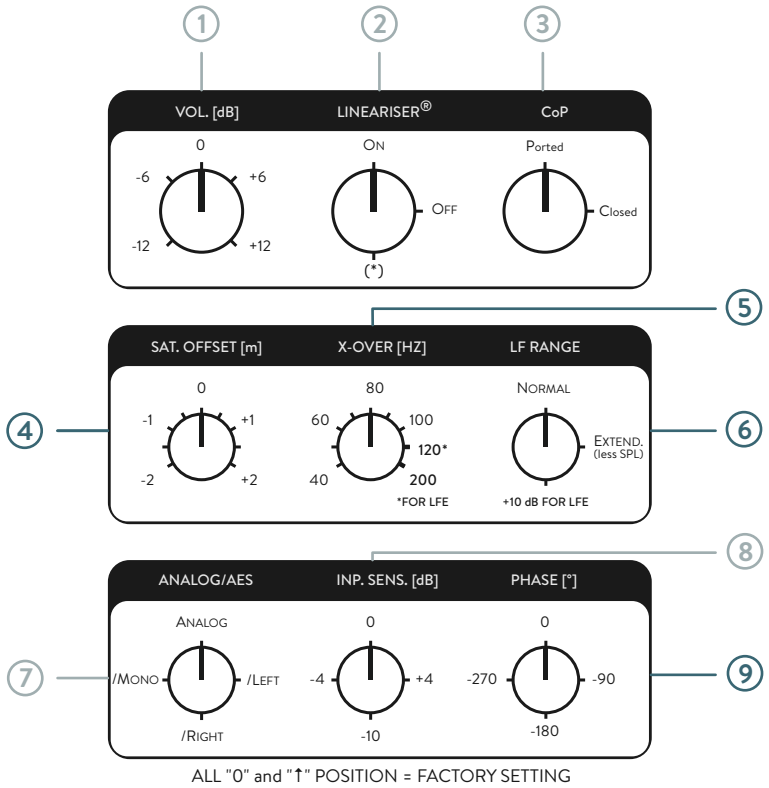
3. Complete Linear Phase Satellite-Subwoofer systems / By applying switchable group delay at the satellite output. The potential listener distances between subwoofers and satellites can be compensated in .5 dB steps within a ± 2 m range, together with HEDD MK2 monitors a Linear Phase satellite system can be installed for the first time.

Additional HEDD subwoofer features

- Switchable Low Pass filtering for use with diff. crossover frequencies including two LFE modes
- Switchable LF range normal/ extended (15% lower=less SPLmax) and a +10dB option for LFE
- AES interface input selector for analog, AES left, AES right or AES mono
- Input sensitivity pot. range -10 dB to + 4dB, so AD conversion can be optimized
- Gain: Analog pot from -12 dB to +12 dB

BASS 08 and BASS 12 are compatible with our previous generation of studio monitors.

BASS BACK PANEL EXPLAINED



ALL "0" and "↑" POSITION = FACTORY SETTING

FUNCTIONS

1 / 2 / 3. Volume / HEDD Lineariser® / CoP

/ same as the monitors

4. Satellite Offset

/ correct the listening distance of the subwoofer in relation to the monitors

5. Crossover Frequency

/ adjust the high frequency limit. The low frequency extension (LFE) is suitable for surround applications

6. Low frequency range

/ optionally extend the bass range (at the expense of a lower max. SPL) or adjust the bass quantity as recommended for surround

7 / 8. Input Selection / Input Sensitivity

/ same as the monitors

9. Phase

/ manually adjust the phase

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HEDD SUBWOOFERS SPECIFICATIONS

HEDD Subwoofers	BASS 08	BASS 12
Woofer (honeycomb diagram)	8'' (2'' voice coil)	12'' (2.5'' voice coil)
Frequency response (-3 dB)	24 - 80 Hz	20 - 80 Hz
Upper frequency limit (var.)	40 - 120 Hz	40 - 120 Hz
LF range (-3 dB): normal / extended	24 / 19 Hz	20 / 16 Hz
Input analog / digital (AES)	2x / 1x XLR	2x / 1x XLR
Input impedance (balanced)	22 kΩ	22 kΩ
Input gain	± 12 dB	± 12 dB
Input sensitivity: 0 dB = 90 dB SPL/m	-10 / -4 / 0 / +4 dB	-10 / -4 / 0 / +4 dB
Output: AES "through"	XLR	XLR
HEDD Lineariser®, disengageable, delay	30 ms	30 ms
Phase switch	0 / 90 / 180 / 270°	0 / 90 / 180 / 270°
Satellite offset (analog out)	± 2m, in .5 m steps	± 2m, in .5 m steps
Frequency response (-3 dB)	24 - 80 Hz	20 - 80 Hz
Maximum SPL at 1 m (half space)	105 dB	115 dB
Power amplifier / universal mains 110 - 240 V	300 W ICEpower	700W ICEpower
AD/DA Conversion	96 kHz / 32 Bit	96 kHz / 32 Bit
Cabinet with satin lacquer finish	black	black
Dimensions (H x W x D)	392 x 290 x 400 mm	595 x 380 x 610 mm
Weight	17 kg	32.1 kg
Warranty	2 years	2 years

AVAILABILITY

The new MK2 monitors will be available early January 2021 and the BASS subwoofers shortly later.

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HEDD | Heinz Electrodynamic Designs is named after co-founder Klaus Heinz. The Berlin physicist has dedicated the majority of his career to the development of unique Air Motion Transformers (short: AMT) that are now being used in class-leading monitors, including his latest refinements for HEDD.

HEDD Audio's reference speakers are the modular, no-compromise Tower Mains. During the development of this fully closed loudspeaker system, Klaus Heinz took great care of every single parameter contributing to the utmost clarity and realism.

The company is also known for their recent success with the new HEDDphone that uses a unique patent-pending VVT technology for full-range frequency reproduction with an AMT driver.

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Thank you for your support!

Klaus Heinz & Dr. Frederik Knop