

FEATURES

Loaded with 2 x 10" high power cast chassis drivers, with a 2" plus 1" Nd coaxial compression exit driver, all mounted in a phase corrected, one piece, dedicated horn flare.

Dedicated HD series partner products, HD-BB Bass Bin and the HD-FR Full Range Cabinet, all share the same frame size and mounting details for compatibility.

Safe groundstacking operation is achieved via the G.S.S.S. Ground Skate Stacking System.

System may be partially or fully flown as required, via either the fully integrated flying tracks or using custom flying frames for multiple HD enclosures.

**SYSTEM APPLICATIONS**

Designed with Arena, Stadia and Outdoor concert touring in mind, the HD series offers all the system components you would require to really "move" your audience.

For the ultimate nightclub main dance area system, HD will offer unparalleled performance and level for sustained periods.

The HD "High Definition" concert system makes addressing large venue and outdoor areas for prolonged periods possible, creating high clarity, high SPL environments without incurring large equipment and logistics expenses. This system is designed with professional stadium tours in mind, with its exceptional range and performance characteristics and with fully supported ground stack or partially/fully flown system possibilities, HD is a tour de force to be reckoned with. Featured here, the HD-MH, loaded with 2 x high power 10" cast chassis drivers fitted with linear phasing plugs, and a 2" plus 1" Neodymium coaxial compression driver, all mounted on a purpose designed multi-chamber horn flare, provides an awesome mid high pack for the HD system. All the HD enclosures share a common footprint and frame size, and each offers 10 x ergonomic carry handles, 4 x flying tracks and are pre-prepared for use with the Ground Skate Stacking System.

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SYSTEM SPECIFICATIONS

Design	3-Way Concentric Horn Loaded Active System
Impedance	16 ohm 16 ohm 4 ohm
Power handling RMS	60 Watt HF 120 Watt Mid 400 Watt LoMid IEC268
Maximum power handling [i]	200 Watt HF 400 Watt Mid 1000 Watt LoMid
Sensitivity 1 W/1 m [ii]	116 dB
Max SPL [ii]	145 dB (cont. SPL peak/1 m)
Frequency response -10 dB [iii]	80 Hz - 23.5 kHz (with Controller CRED)
Frequency response ± 3 dB [iii]	90 Hz - 23 kHz (with Controller CRED)
Crossover frequencies	-
Active crossover frequencies	7 kHz HF 900 Mid 110 Hz LoMid
Dispersion [iiii]	40° x 20° (hor. x vert.)
Directivity index (DI) [iiii]	13.5 (+1.5/-3) 200 Hz - 16 kHz

SYSTEM OPERATION

Recommended Amplification	0.06 -0.2 kW @ 16 ohm HF (OHM EA-2400) / 0.12 -0.4 kW @ 16 ohm Mid (OHM EA 2400) / 0.5 -1.0 kW @ 4 ohm LoMid (OHM EA-2400)
Subwoofer Options	4 x HD-BB for 1 to 3 HD-MH, 6 x HD-BB for 4 to 6 HD-MH
System Controller	The HD-MH loudspeaker must be used with the CRED digital controller, specially programmed by OHM Industries Limited. Use without controller is not possible.
Speaker Cables	Linking a maximum of 4 HD-MH hi or mid units and use single wiring for HD-MH low/mid, cables should be minimum 8 x 2.5mm, ideally 2 cables each 4 x 4mm.

PRODUCT FEATURES

Components	1" 2" Coaxial Compression Exit driver with 1.75" 3.75" Polyester diaphragm 2 x 10" OHM LoMid cast chassis with 2.5" H.T.V.C. voice coil together on one OHM S.W.C.S. CD Horn
Crossover	Active crossover control via CRED.
Connectors	2 x Speakon NL8MP (LM: 2+/2-, MID: 3+/3-, HI: 4+/4-)
Additional descriptive data	18mm birch plywood construction, with durable scratch resistant black textured paint finish, 10 x ergonomic carry handles, welded Aluminium castor trolley available, kick-proof steel grill finished with reticulated black foam with stainless steel OHM logo.
Rigging	4 x flying tracks (2 x full length at the sides, 2 x 100mm lengths at the rear)
Dimensions	(H x W x D): 1186 x 576 x 855mm
Weight	92 Kg
Colour	Black
Options	Aluminium Castor Trolley
Hardware	Custom flying frames (optional), G.S.S.S Ground Skate Stacking System (optional)

As part of our continuous development and improvement program, OHM Industries Limited reserves the right to change specifications without prior notice.

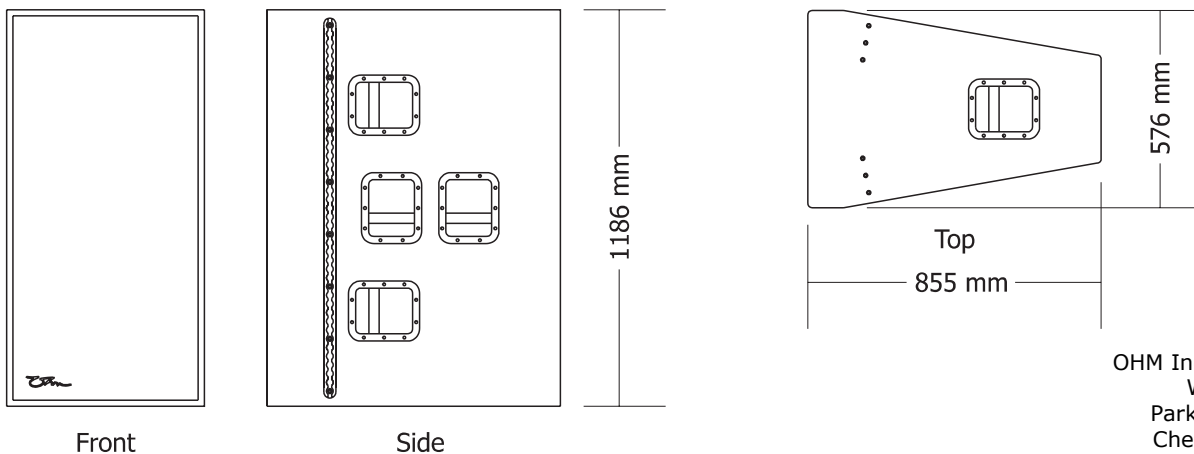
[i] Maximum power handling: calculated at maximum output voltage of amplifier on static load wideband to the specified ± 3 dB range. The peak point is the short time maximum power handling nominal for no longer than 10 oscillation periods.

[ii] Sensitivity 1 W/1 m and Max SPL data for speaker, processor and recommended amplification. Measured with bandlimited pink noise. Nominal refers to Vocal band (315Hz - 3.15kHz). Wideband to the specified ± 3 dB range. Continuous (con.) max SPL includes the effect of any power compression at maximum power handling. SPL peak / 1 m: at maximum output of recommended amplification with 1 HD-MH.

[iii] Frequency response curves: measured full-space anechoic far field for HD-MH and EA-2400.

[iiii] Dispersion and directivity index (DI): measured with TEF and calculated by computer simulation with Ulysses.

G.S.S.S., S.W.C.S. and H.T.V.C. are trademarks of OHM Industries Limited.



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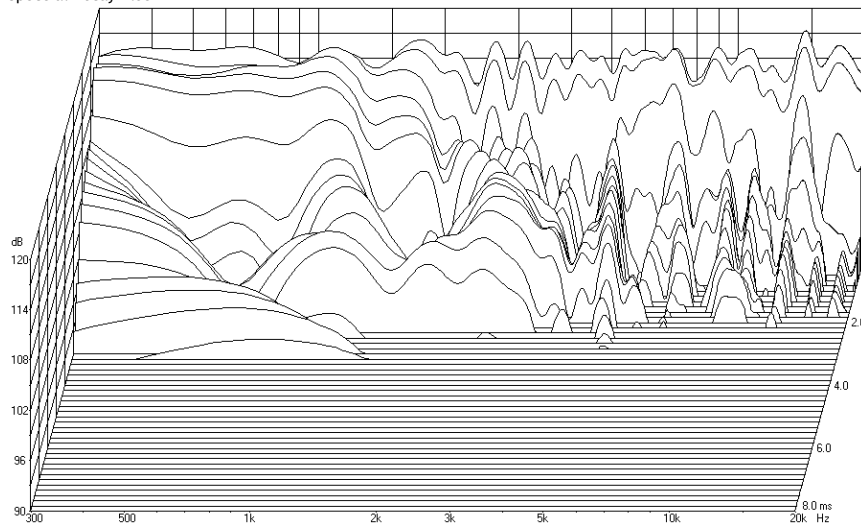
Architects' & Engineers' specifications

Dynamic, responsive subwoofer system with 2 x 10" cast chassis drivers, internally and externally ventilated double-sided high temperature voice coils, with a 2" plus 1" Neodymium coaxial compression exit driver all mounted on a proprietary horn flare. Constructed from birch plywood, with integral metal hardware fixings, finished in a durable scratch resistant black textured paint, 10 x ergonomic carry handles, kick-proof steel grill finished with black reticulated foam and a stainless steel OHM logo.

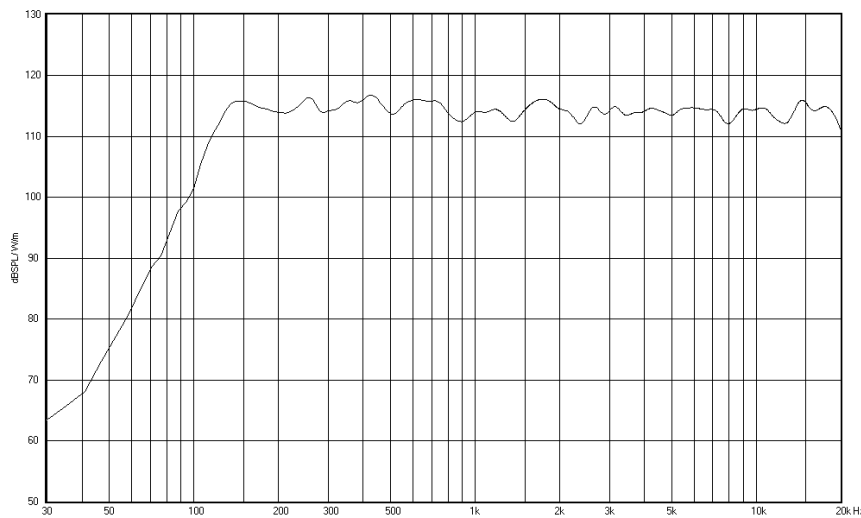
Technical Data:

Frequency Response: 80 Hz - 23,5 kHz (-10dB), 80 Hz - 23,5 kHz (± 3 dB), Max SPL: 145 dB (cont. SPL peak/1 m), Power Handling: 60 Watt HF | 120 Watt Mid | 400 Watt LoMid IEC268 RMS, Maximum Power Handling: 200 Watt HF | 400 Watt Mid | 1000 Watt LoMid, Impedance Nominal: 16 ohm | 16 ohm | 4 ohm, Dispersion Nominal: 40° x 20° (hor. x vert.), Connectors: 2 x Speakon NL8MP (LM: 2 +/2-, MID: 3+/3-, HI: 4+/4-), Dimensions (H x W x D): 1186 x 576 x 855mm, Weight: 92 Kg, Options: Aluminium Castor Trolley

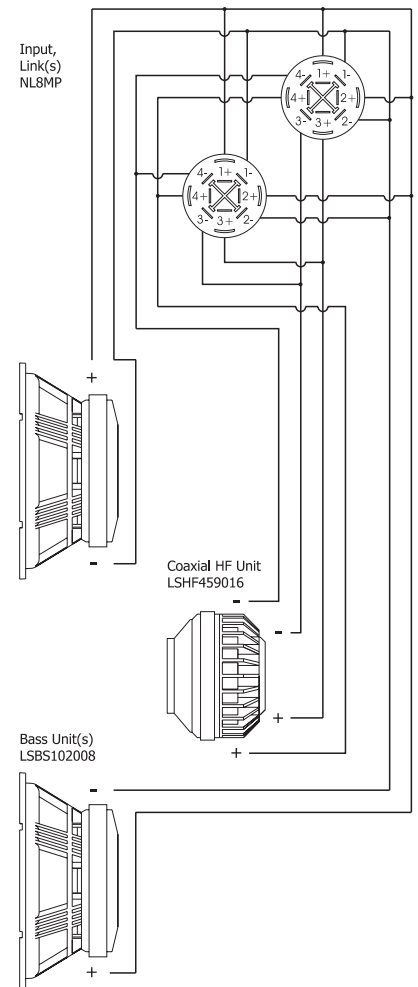
Spectral Decay Plot



Amplitude frequency response "on axis" 1W/1m



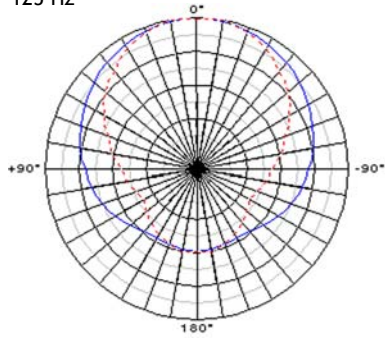
Wiring diagram



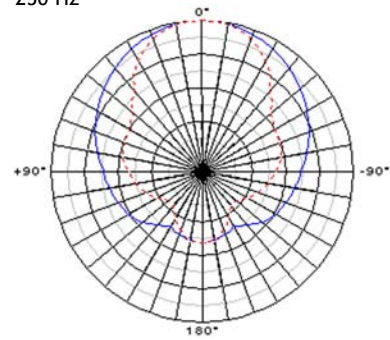
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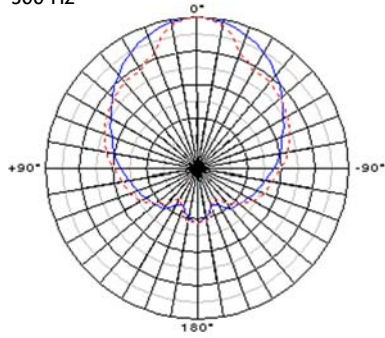
125 Hz



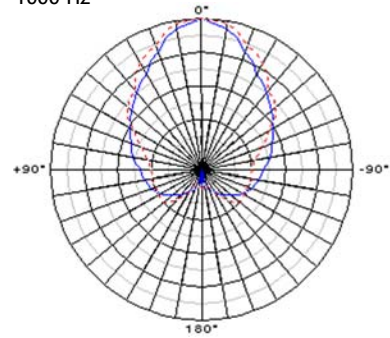
250 Hz



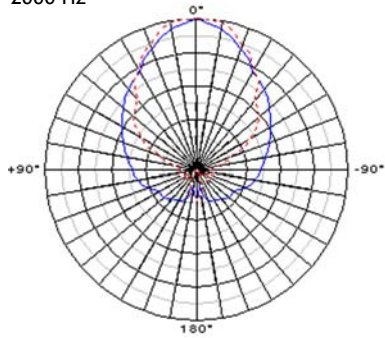
500 Hz



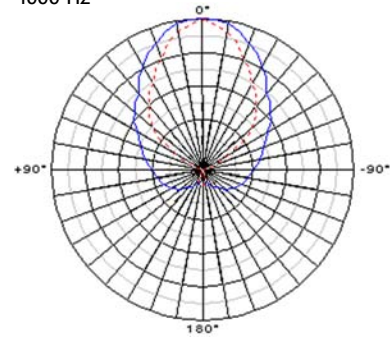
1000 Hz



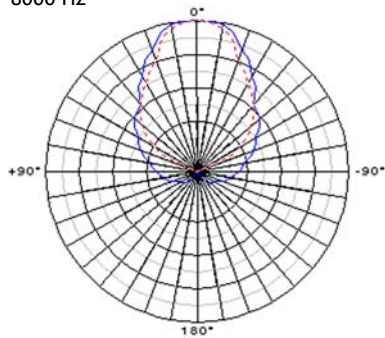
2000 Hz



4000 Hz



8000 Hz



— Hor.
 - - - - - Vert.
 — -0/-10/-20 dB
 - - - - - -5/-15/-25 dB

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Safety Instructions:

Professional speaker systems are able to produce sound pressure levels that could harm your health. Never stand directly in front of loudspeakers for long periods. Whilst not immediately apparent to the listener, sound pressure levels in excess of 90 dB@1m can be hazardous to hearing.

Please refer to the following advice when setting up or dismantling OHM speaker systems.

1. Be sure to leave adequate distance between speakers and the public. Refer to your local authority for Health and Safety guidance when using loudspeaker systems.
2. Be sure to have safe and stable ground for your speakers, particularly when using speaker stands.
3. When stacking speaker systems, ensure they are secured to prevent individual speakers from falling down or moving around.
4. Only use OHM mounting hardware, as this has been specified and approved by OHM Ind. Ltd. for use with OHM speakers.
5. When flying speakers, appropriate materials and techniques must be employed in order to safely suspend enclosures, taking care to allow for specified enclosure weight.
6. Please observe any special instructions that appear on specific loudspeaker datasheets.
7. Check your speaker hardware and flying material regularly for any visual or mechanical failure. Replace damaged or suspect items when necessary.
8. Only use OHM digital controllers such as the CRED. Only technicians authorised by OHM Ind. Ltd. are qualified to program digital controllers. Take note of recommended controllers as specified on the datasheets. Do not use OHM loudspeaker systems without the correct controller. If a system fails due to incorrect controller use, warranty is void.
9. Protect your speakers and electronics from freezing and do not expose them to humidity, water or rain without protection.

OHM loudspeakers and electronics are covered against defects in workmanship or materials for a period of two (2) years from the original date of purchase. At the discretion of OHM Ind. LTD, the defective item will be repaired/replaced with no charge for materials or labour. The item is to be adequately packed and dispatched, pre-paid, to an OHM authorised distributor/service centre. Unauthorised repair shall void warranty. The OHM warranty does not cover cosmetics or finish and does not apply to any item which in OHM's opinion has failed due to user abuse, accident, modifications or any type of misuse.

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