

HL1508 Specifications



Description

3-way point source horn system

- 3-way full range system
- High Efficiency Horn Loaded design
- Very high SPL from 100Hz-20kHz
- Three-amplified or Two-amplified operation
- Designed for horizontal array and installation

The horn loaded design combined with one highly efficient 15" transducers produces an efficiency of 103 dB at 1 W / 1 m. A power rating of 600Wrms enables a sustained output of 130 dB to be maintained.



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LOUDSPEAKER

Subsystem:

Transducer	Loading
LF 1 x 15-in cone / 4" Voice Coil/	Horn-loaded
MF 1 x 8- in cone /2" Voice Coil with ferrofluide/	Horn-loaded
HF 1 x 1-in compression driver /1.75" voice coil	Horn-loaded

Operating Mode: Active

Amplifier Channels	External Signal Processing
Three -amp LF, MF, HF - active mode	DSP /3-way filters

Operating Mode: Semi Active

Amplifier Channels	External Signal Processing
Two -amp LF, MF and HF /with internal crossover/	DSP /2-way filters

PERFORMANCE

Operating Range:	90 Hz - 21 kHz (- 3 dB)
Nominal Beamwidth: H/V	40° x 60°

Power handling AES

LF-69Vrms(90-400Hz)	600W @ 8Ohm
LF-49Vrms(400-1800Hz)	300W @ 8Ohm
HF-25,3Vrms(2-18kHz)	80W @ 8Ohm

Axial Sensitivity (2.83V@1m)

LF 102 dB	100Hz to 400Hz
MF 106 dB	500Hz to 1200Hz
HF 112 dB	2kHz to 4kHz

Input Impedance

Nominal	Minimum
LF – 8 ohm	7,5ohm @ 220 Hz
MF – 8 ohm	
HF – 8 ohm	

High Pass Filter Active Mode

LF – High Pass=> 90Hz, 24 dB/octave Butterworth
MF – High Pass=> 300 Hz, 24 dB/octave Butterworth
HF – High Pass=> 1800 Hz, 24 dB/octave Butterworth

High Pass Filter Semi Active Mode

LF – High Pass=> 90Hz, 24 dB/octave Butterworth
MF/HF – High Pass=> 300 Hz, 24 dB/octave Butterworth

Axial Output SPL @ 1m

Average	Peak
LF 130 dB	136 dB
MF 130 dB	136 dB
HF 130 dB	136 dB

PHYSICAL

Dimensions 1090 x 550 x 600 mm (H,W,D)
Net Weight: 74kg

ORDERING DATA

Description
HL1508 - Red or Black

Optional Accessories

Cover (Single protection for one HL1508)



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Internal Electrical Diagram

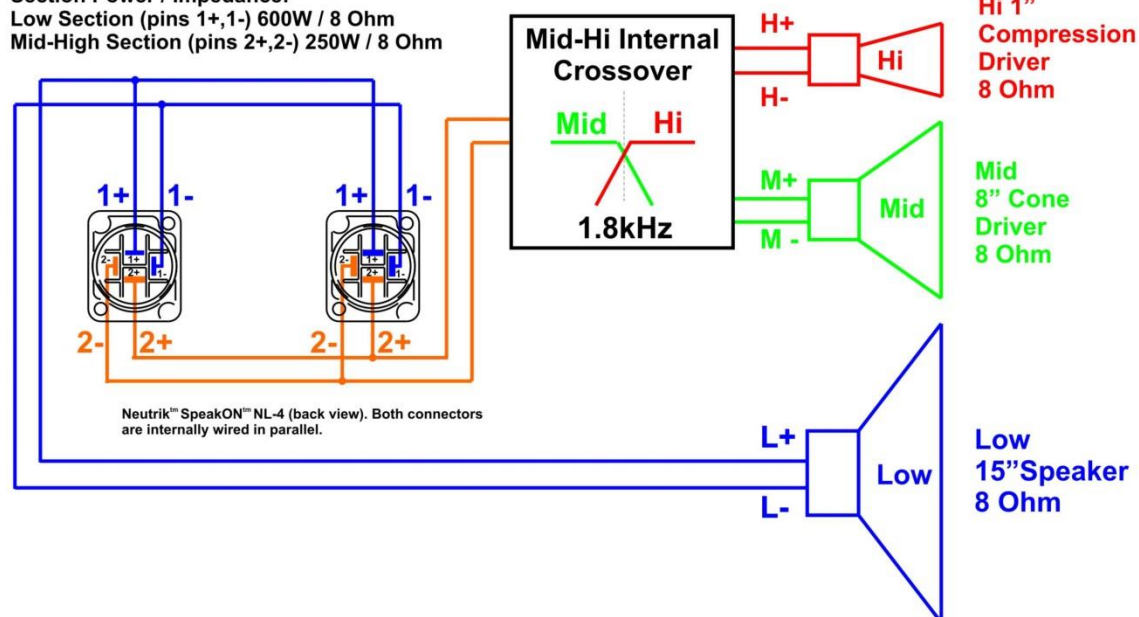
2-Way Semi-Active Mode, 2-Amp Operation

Recommended External Crossover Points 300Hz

Section Power / Impedance:

Low Section (pins 1+,1-) 600W / 8 Ohm

Mid-High Section (pins 2+,2-) 250W / 8 Ohm



3-Way Active Mode, 3-Amp Operation

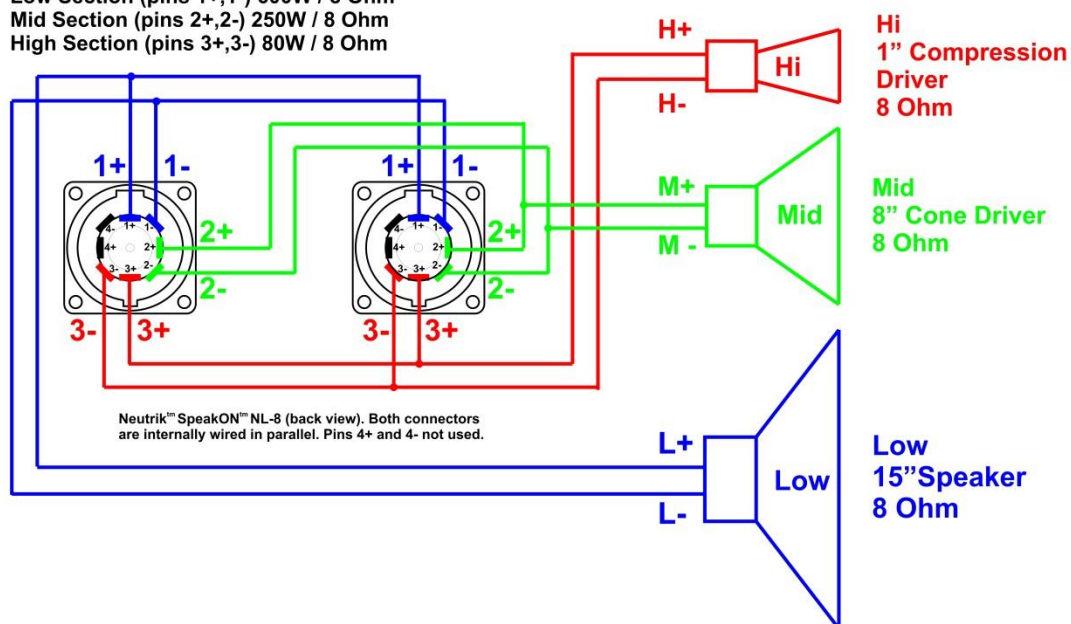
Recommended External Crossover Points 300Hz / 1,8kHz.

Section Power / Impedance:

Low Section (pins 1+,1-) 600W / 8 Ohm

Mid Section (pins 2+,2-) 250W / 8 Ohm

High Section (pins 3+,3-) 80W / 8 Ohm

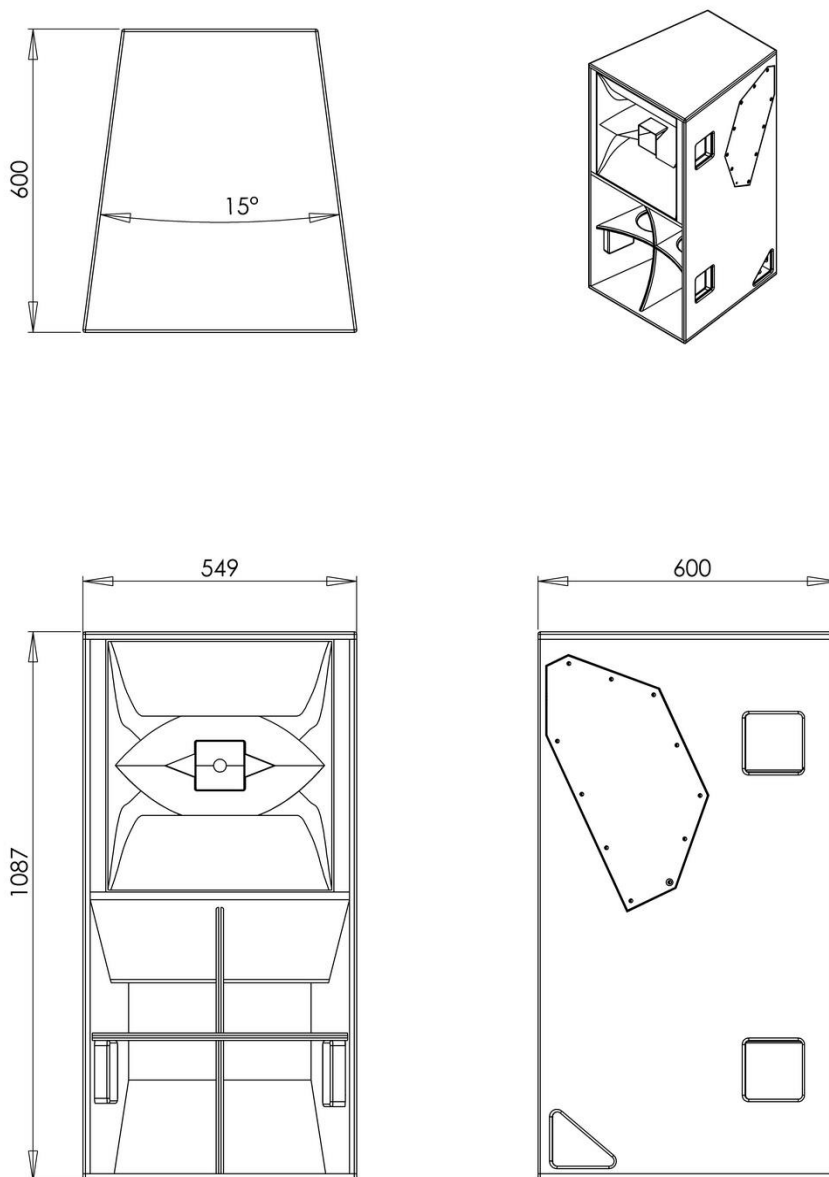


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Drawing



- All dimensions are in mm



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