

APPLICATIONS

- In fill MHF Horn
- Houses of worship
- Discotheques, clubs, dance halls
- Corporate Rental Systems

FEATURES

- Superior vertical coverage control if compared to similar products
- Leading-edge LF Horn Loading Configuration developed by Lange Loudspeakers back in 1992
- Lange Loudspeakers designed ND HF Driver
- Extended, smooth frequency response
- 1 x 12" LF driver, 1 x 8" driver, 1 x 1" ND driver with 3" Voice Coil (Lange 1475-8A)
- 55° Horizontal, 25° vertical (-3dB)
- 500W LF range, 200W MF range, 160W HF range (AES)
- 90,3 cm tall, 50 cm wide and 50 cm deep

DESCRIPTION

The 1531 Horn Loudspeaker is based on a three way concept including a custom designed LF horn section design developed in 1992 by Lange Loudspeakers. Critical mid frequencies are reproduced by a horn coupled to an 8" driver and proprietary concentric phase plug. High frequencies are reproduced by a 76 mm coil/dome high frequency driver developed and made by Lange Loudspeakers in Switzerland.

The 1531 has been designed primarily in order to offer better performance down to 90 Hz. If compared to our older and discontinued 9910 MHF Horn the 1531 includes a specific low frequency horn, derived from our H718 design, intended to cover frequencies from 90 Hz up. The folded horn does not include compression chambers nor flare irregularities or parallel walls that inevitably generate resonances. The system offers noticeable advantages in terms of controlled coverage, low harmonic distortion and impressive dynamic range

Intended primarily for dance halls and mid-sized installations the 1531 delivers outstanding sound quality. The 1531 is best used together with our H718, H721 or B218 subwoofers. Close attention has been dedicated to the geometry and position of the horns. Radiating areas have been placed as close as possible in order to interact in a constructive way. Cabinet size has been reduced as much as possible. The frontal area of the loudspeaker can be considered completely radiating and occupied by three horn mouth



SPECIFICATIONS

Sensitivity	107 dB LF, 106 dB MF, 113 dB HF 1W, 1 meter (single unit)
Frequency response (1)	90 Hz – 18'500 Hz +/- 3dB
AES Power Handling (2)	500W LF, 200W MF, 160W HF
Maximum Sound Pressure	129 dB LF, 129,0 dB MF / 132 dB HF @ 1 meter, full power, continuous
Power Compression	3 dB LF, 1 dB MF, 3 dB HF
Impedance	8 Ω
Directivity Pattern	55°H x 25°V (-3dB)
Suggested Crossover point (3)	High Pass 12" driver: 75 Hz to 245 Hz 24dB/oct. Low Pass 12" driver: 245 Hz to 450 Hz 24dB/oct. High Pass 8" driver: 190 Hz to 450 Hz 24dB/oct. Low Pass 8" driver: 1 kHz to 2'750 Hz 24dB/oct. High Pass HF Driver: 1 kHz to 2'750 Hz 24dB/oct.
Connectors	2 x Neutrik ® NL4MP wired: 1+/ 1- MF, +2/ -2 HF (second Speakon loops trough)
Cabinet Construction	15 mm (3/4") Birch plywood, Polyurethane Horns, section angle 20°
Finish	Brown epoxy glue, texture paint
Dimensions (H, W, D)	90,3 x 50,0 x 50.0 (cm)
Weight	38 Kg
LF Driver type	1 x 12" ND Driver, 1x8" ND High Power driver with 3" Voice coil, 1 x 1475 HF Driver
Spares & Accessories	Flying kits available in different configurations

(1) -6 dB point

(2) AES 1-1984 Rev. 2003

(3) Due to extended frequency response of each way the 1531-H offers different crossover point options.