

APPLICATIONS

- Discotheques
- Touring sound reinforcement
- High quality installations
- Sport venues and arenas

FEATURES

- Lange Loudspeakers designed ND HF Drivers
- Passive option available
- Extended, smooth frequency response
- 4x 8" ND drivers with 3" Voice Coil, 1x 1" ND driver with 76 mm voice coil (Lange 1475-8A)
- 50° Horizontal, 55° vertical (-3dB)
- 1200W AES Mid frequencies, 160W AES High frequencies

DESCRIPTION

The 1481-8A Horn Loudspeaker includes four 8" mid frequency drivers with 75 mm voice coil and one 1" ND High Frequency driver with 76mm voice coil. It is a very powerful unit radiating within a 50° V x 55° H angle. Released in 2014 this speaker includes an uncommon 1" driver developed by Lange Loudspeaker. The driver has an 1" throat yet includes a large 76 mm coil/dome assembly resulting in excellent high frequency response combined with a remarkable frequency extension.

An advantage if compared to other multiple horn design is the fact that the entire frequency range is emitted from one single, large horn. The two way design can be achieved thanks to the extended and smooth frequency response of the high frequency driver included. Mid frequency throats have been placed away from high pressure, high frequency radiation areas, allowing better directivity control.

High excursion capabilities of the four mid frequency drivers coupled to a considerable total diaphragm area allow excellent extension down to 70Hz. The large mouth area and size of the horn also contribute to maintain efficiency to very high levels. Compared to multiple horn designs the 1481-8A has considerable advantages in directivity control, efficiency and frequency extension.

Critical parameters such as reproduction fidelity as well as superb high frequency performance have been maintained as a standard feature typically found in Lange Loudspeakers mid-high frequency horns. The 1481-8A is available with no hardware and handles for fixed installations. It is best paired with our H718 & H721 low frequency horns.



SPECIFICATIONS

Sensitivity	108 dB MF, 113 dB HF 1W, 1 meter (single unit)
Frequency response (1)	70 Hz – 18'000 Hz +/- 4dB (with correct DSP settling)
Maximum power Handling (2)	2400W MF, 150W HF watts
AES Power Handling (3)	1200W MF, 75W HF watts
Maximum Sound Pressure	135,8 dB MF / 133dB HF @ 1 meter
Peak Sound Pressure	144,8 dB MF / 139dB HF @ 1 meter
Power Compression	3 dB (MF Section)
Impedance	8 Ω
Directivity Pattern	50°H x 55°V (-6dB)
Recommended Crossover point	>70 Hz MF – >1000 Hz HF (24dB Linkwitz or steeper filter)
Connectors	2 x Neutrik ® NL4MP wired: 1+/ 1- MF, +2/ -2 HF (second Speakon loops trough)
Box Construction	15 mm (3/4") Birch plywood, Compound Horns, Milled by CNC
Finish	Brown epoxy glue, texture paint
Grille	Steel grille, 2mm, black powder coating with polyurethane foam (10ppm)
Dimensions (H, W, D)	65,0 x 50,0 x 50.0 (cm)
Weight	39 Kg
LF Driver type	4x 8" ND drivers, 3" Voice coils, 1x 1" Driver, ND Magnet, 76 mm coil
Spares & Accessories	Steel Front Cover, Replacement diaphragms for MF & HF Units

(1) -6 dB point

(2) AES 1-1984 Rev. 2003

(3) 3 dB greater than nominal power