

Architectural Specification

The Optima 8 is a compact format vertically arraying loudspeaker enclosure. It is designed to be used in either a ground stack configuration which allows between three and six cabinets to be used or in a flown array where six to eighteen cabinets can be combined. The cabinet combines two off 8" mid bass cone drivers with two 100 mm planar wave guides loaded on an integral horn structure. The horn structure has a nominal dispersion character of 120° horizontally by 10° vertically. All components use neodymium magnet structures.

The enclosure is manufactured from 15mm birch plywood and coated in a heavy duty polyurea finish. The cabinet front has a protective steel grill coated in a water resistant powder coat finish which has an acoustically transparent filter medium bonded to its back surface. Optima 8 incorporates a fully integrated fly system which permits box to box angle selection in 1° increments. Box to box connection is via four Kwik lock pins. To assist transit each cabinet has a handle on each end and also has the option of a flightcase which accepts two cabinets.

Electrical connection to the cabinet is via two parallel linked Neutrik NL4 MP connectors. All Inspired Audio products are designed as an integrated solution complete with system amplifier options from the eFlex range. The eFlex units provide DSP preset functions, networked software control of operating parameters and output drive power. An eFlex Q5 or Q6 will drive three Optima 8 enclosures per channel pair, while an eFlex Q20 will drive four Optima 8 enclosures per channel pair.

Optima 8 can be configured in three ways. For vocal applications it can flown without any additional bass and operated over the 70 Hz to 20 kHz pass band. Where greater low frequency energy is dictated by the source material the Reflex SB218 can be ground stacked in support of a flown system. Where flown bass is required the Optima B315 can be flown above an array of Optima 8 with the option of also adding ground stacked Reflex SB218 to the system. The Optima B315 can also be used as the basis of a ground stacked Optima 8 system.



Optima 8

Mid/bass: 2 off 8" cone drivers

HF: 2 off Planar waves

Frequency response: 70 Hz - 20 kHz

Sensitivity: 2.8 V/1m (Peak): Mid/bass - 103 dB (136 dB)
HF - 115 dB (143 dB)

Power (RMS/Peak): Mid/bass - 500 w/2000 w
HF - 160 w/640 w

Impedance: Mid/bass - 8 ohms
HF - 8 ohms

Directivity: 120° h x 0 - 10° v (above 1.5 kHz)

Operation mode: Bi-amplified

Connection: 2 off Neutrik NL4 MP

Wiring protocol: 1+/1- = Mid/bass
2+/2- = HF

Weight (Packaged): 30.75 kg (64 kg per pair)

Dimensions (mm): 748 w x 253 h x 430 d
Packaged in pairs (mm): 790 w x 575 h x 480 d

Options:

- Transit flightcase (two cabinets per case.)
- Optima 8 Fly frame
- Optima 8 Ground stack frame

(Peak SPL measurements are taken with a crest factor x4)

Inspired Audio products are designed and manufactured in England. For technical support:

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