ΩMEGA Pro Audio

ECO 6 CLIMATE FRIENDLY SOUND

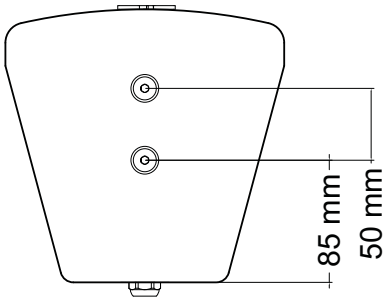
Same Look _ Recycled
Significantly improving outdoor sound quality while helping the environment
As well as being one of the most innovative new enclosure materials for weatherproof loud-speakers, it's also one of the most environmentally-friendly and economical.

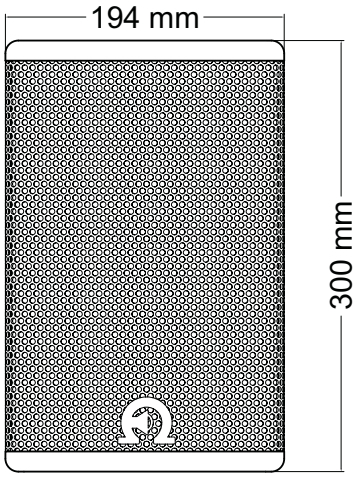
Each product in this range is manufactured from 100% waste plastic which typically ends up being land-filled, floating in our oceans or incinerated. Every design using this recycled polymer is engineered to perform as an alternative to polyurethane coated plywood or plastic rotational/ injection moulded. Fully recyclable at end-of-life.
Features

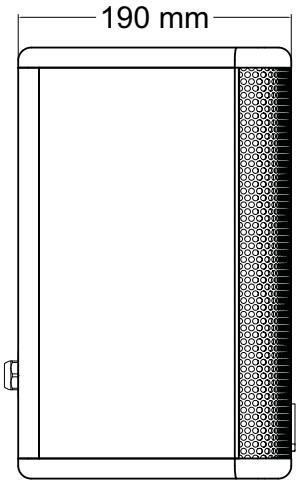
- Rot and weatherproof
- RAL Colour options
- No maintenance costs
- Chew resistant and non-toxic to animals
- Acid and chemical resistant, resisting most industrial chemicals

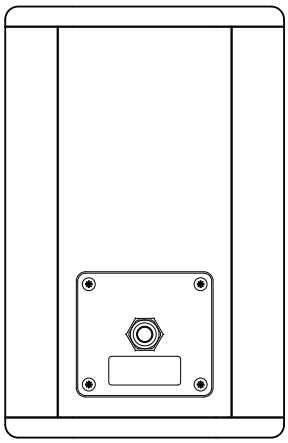
- Compact
- Daisy chain output
- Flexible orientation
- 2 way design
- Great for venues needing louder background music
- Waterproof design

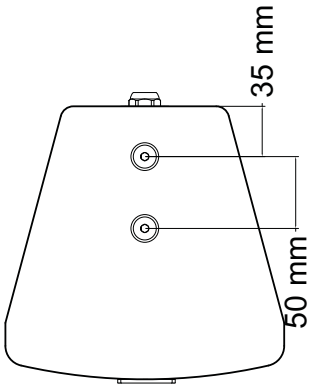
2d Drawing



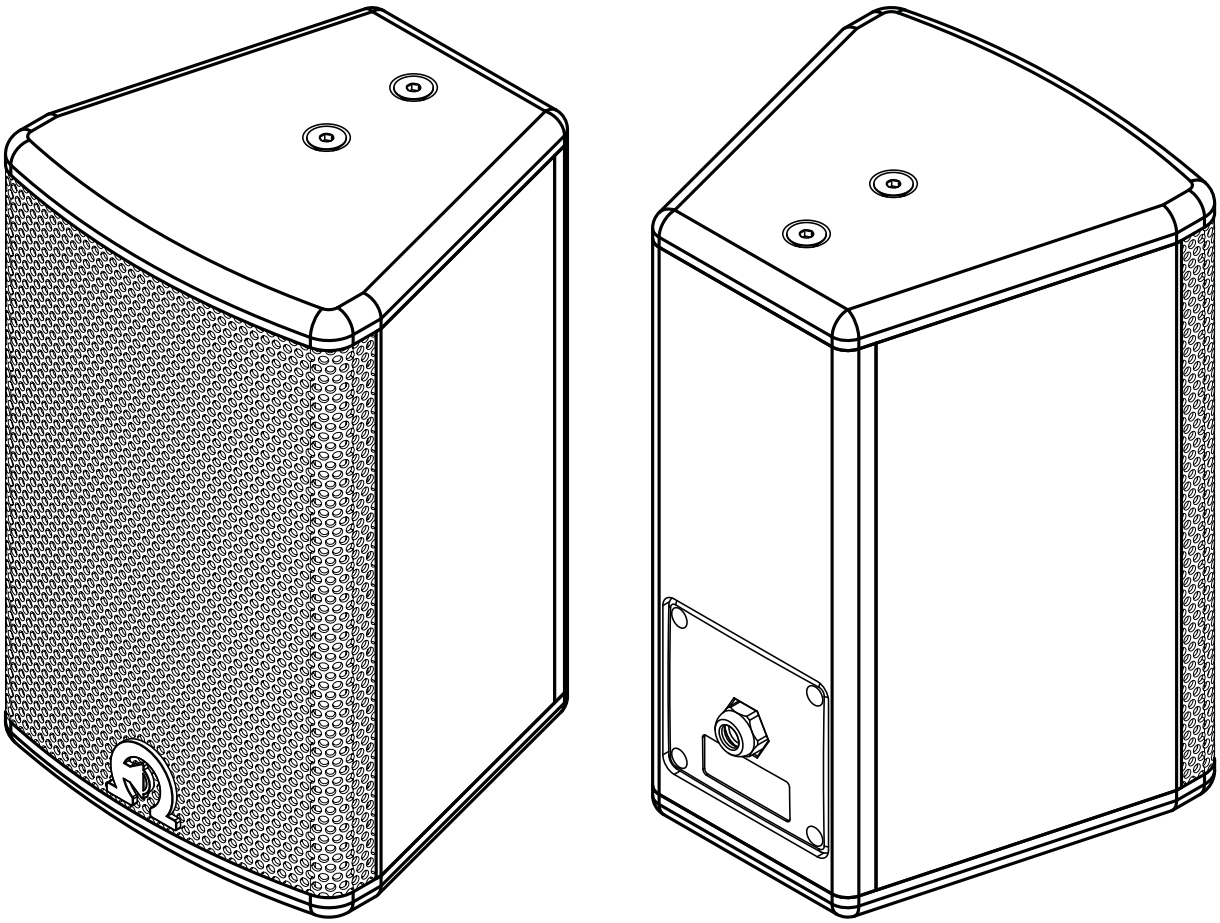








3d Drawing



- ECO-6 steel grille assembly
- ECO-6 backplate and crossover
- 1 x 6" low frequency driver
- 1 x 1 horn loaded compression driver
- Steel Omega Logo

Technical Specifications

Design
Single 6" Full Range Cabinet, Reflex Tuning

Impedance
16 Ohm

Power Handling (AES)
150 Watts (continuous)

Max. Power Handling (AES)
300 Watts (prog)
600 Watts (peak 10 ms)

Sensitivity 2.83V / 1m
90 dB

Max. SPL
111 dB cont.
117 dB peak

Frequency Response (±3 dB)
87 Hz - 24 kHz

Usable Frequency Range (-10 dB)
74 Hz - 26 kHz

Dispersion
120° x 60°

SYSTEM OPERATION

Recommended Amplification
300 _ 600 Watts

System Controller
Omega DSP solutions

Speaker Cables
Min - 2 x 2.5 mm^2
Preferred - 2 x 4 mm^2

PRODUCT FEATURES

Components
1 x 6" Low Frequency Driver
1 x Horn Loaded Compression Driver

Crossover
Passive _ 3.5 kHz
Active _ * LPF _ / HPF _ 110 Hz
* All presets from the Omega library.

Connectors
Glanded backplate, internal Wago quick connects

Dimensions (H x W x D mm)
300 x 194 x 190

Weight (kg)
4.4

Shipping Weight (kg)
9.4 (1 cabinet per carton)

Colour
Black

Options
White or RAL colours on request

Rigging
4 x M8 mounting points for installation bracket.

HARDWARE

Fitted as Standard
-

Optional
-

Additional Descriptive Data
Recycled Polymer construction, with durable scratch resistant black textured paint finish, kick-proof steel grille and internal black fret cloth with Omega logo.

Recommended filter settings are available on the website omegaproaudio.co.uk/downloads

* All presets from the Omega library.

Architects' & Engineers' specifications:

2-Way dynamic loudspeaker in a multi purpose enclosure design, housing 1 x 6" proprietary low mid bass driver, internally and externally ventilated double sided high temperature voice coil, 1" exit compression driver on 120° x 60° CD horn. Homogeneous radiating behaviour and linear response from 87 Hz. Integrated passive crossover with HF protection and phase optimization. Constructed from different Recycled Polymer, eco-friendly scratch resistant paint, 6 x flying points, , kick proof steel grille finished with internal fret cloth and Omega Logo.

Technical Data:

Frequency Response: 74 Hz _ 26 kHz (-10dB), 87 Hz - 24 kHz (±3 dB), Continuous SPL: 111 dB/1m, Program SPL 114 dB/1m, Peak 117 dB/1 m. Power Handling: 150 Watt cont. IEC268 AES, Maximum Power Handling: 300 Watt prog. / 600 Watt peak, Impedance Nominal: 16 ohm, Dispersion Nominal: 120° x 60° (hor. x vert.), Connector: M16 Gland, internal Wago quick connects. Dimensions (H x W x D): 300 mm x 194 mm x 190 mm, Weight: 4.4 kg. Options: Durable scratch resistant black textured paint finish. RAL colours available to order.

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 90dB@1m can be hazardous to the hearing.

Please refer to the following advice when setting up or dismantling OMEGA 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 OMEGA mounting hardware, as this has been specified and approved by KHZ LTD, for use with OMEGA 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 data-sheets.

7. Check your speaker hardware and flying material regularly for any visual or mechanical

Safety Instructions Cont.

failure. Replace damaged or suspect items when necessary.

8. Only use OMEGA DSP Solutions. Only technicians authorised by KHZ LTD are qualified to program digital controllers. Take note of recommended controllers as specified on the datasheets. Do not use OMEGA 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.

OMEGA loudspeakers and electronics are covered against defects in workmanship or materials for a period of two (2) years from original date of purchase. At the discretion of KHZ 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 OMEGA authorised distributor/service centre. Unauthorised repair shall void the warranty. The OMEGA warranty does not cover cosmetics or finish and does not apply to any item which in OMEGA's opinion has failed due to user abuse, accident, modifications or any type of misuse.

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