

BT-6WP Datasheet



BT-6WP is a 16 ohm passive, compact trapezoidal, point-source cabinet ideally suited to background music, infill for portable and fixed installation use.

With a 120° x 60° horn loaded tweeter, the internal passive crossover ensures a flat, usable frequency response of 73 Hz to 26 kHz (-10 dB) and a maximum SPL of 116 dB (peak).

The discreet look makes them fit any style of décor. Using a custom 6" driver and a horn loaded dome tweeter, creating a level of clarity and detail which is rare in a cabinet of this size. The 16 ohm impedance design of the BT-6WP makes daisy-chaining easy for multiple units on a single channel of amplification.

Sharing voicing characteristics with the rest of the B series allowing them to be used simultaneously, keeping a consistent tone.

Mounting options include integrated horizontal cradle fixing points for use with the BC-6 cradle. Other fixings can be used with this cabinet such as the small wall bracket (SWB) and pan and tilt pole mount adaptor (SS-A).

The rear connector plate is fitted with an IP54 gland and is available with 100v transformer option with 3.75, 7.5, 15, 30 and 60 W tap settings.

Custom RAL colours are available on request to make their appearance even more seamless with the surroundings. The discreet design with steel grill and acrylic textured paint finish and multiple integrated fixing points achieves a high class look suitable for any application.

Key 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
- Hi-Fi grade components give extended 73 Hz frequency response
- Defined and accurate 120° x 60° dispersion minimises reflection and feedback issues
- 16 Ohm impedance
- Use in conjunction with BS range subs for extended bass dynamics

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 loudspeakers, 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.

Technical Specifications

Design

1 x 6" Mid High Cabinet,
Reflex Tuning

Impedance

16 Ohm, Minimum 10.5 @ 290Hz

Power Handling (AES)

150 Watts (continuous)

Max. Power Handling (AES)

300 Watts (program)
600 Watts (peak 10 ms)

Sensitivity 2.83V / 1m

89 dB

Max. SPL

110 dB cont
116 dB peak

Frequency Response (±3 dB)

86 Hz - 24 kHz

Usable Frequency Range (-10 dB)

74 Hz - 26 kHz

Dispersion

120° x 60°

SYSTEM OPERATION**Recommended Amplification**

150 - 300 Watts

System Controller

Omega DSP Solutions

Speaker Cables

Min - 2 x 2.5 mm²
Preferred - 2 x 4 mm²

PRODUCT FEATURES**Components**

1 x 6" Coaxial Low Frequency Driver
1 x Horn Loaded Tweeter

Crossover

Passive - 3.5 kHz

Active - * LPF -
HPF - 110 Hz

Connectors

1x IP54 Gland

Dimensions (H x W x D mm)

300 x 190 x 188

Weight (kg)

4.4

Shipping Weight (kg)

9.4 (2 cabinets per carton)

Colour

Black

Options

Available in white or RAL colours on request
Weather resistant version on request

Rigging

4x M8 mounting points for installation
brackets, stand or truss adaptor,

HARDWARE**Fitted as Standard**

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Optional

BC-6 Cradle Vertical, HWB wall bracket, PTS
small rear pan and tilt bracket, SWB small wall
bracket, S-SA Stand adaptor, SS-1 speaker
stand, TP-1 adjustable threaded pole.

Additional Descriptive Data

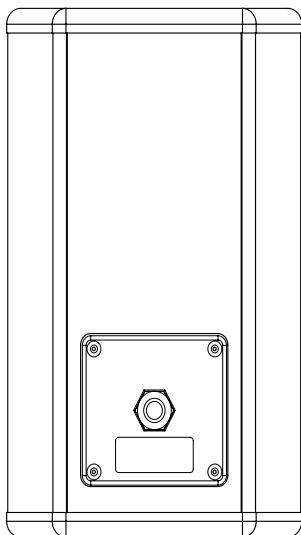
Recycled Polymer construction, with durable
scratch resistant black textured paint finish,
kick-proof steel grill with Omega logo.

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

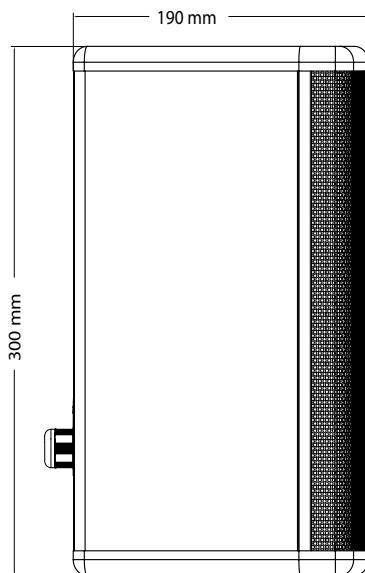
* All presets from the OMEGA library.

BT-6WP Dimensions

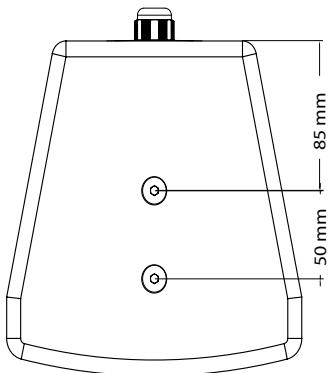
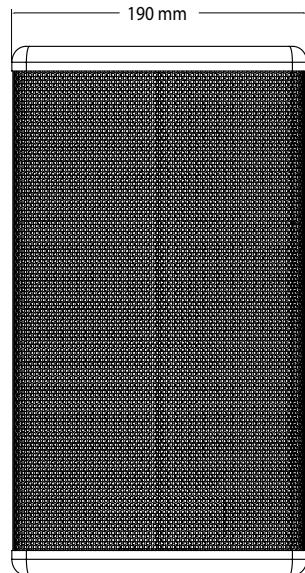
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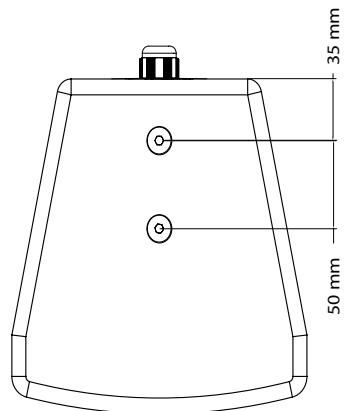
Side



Back



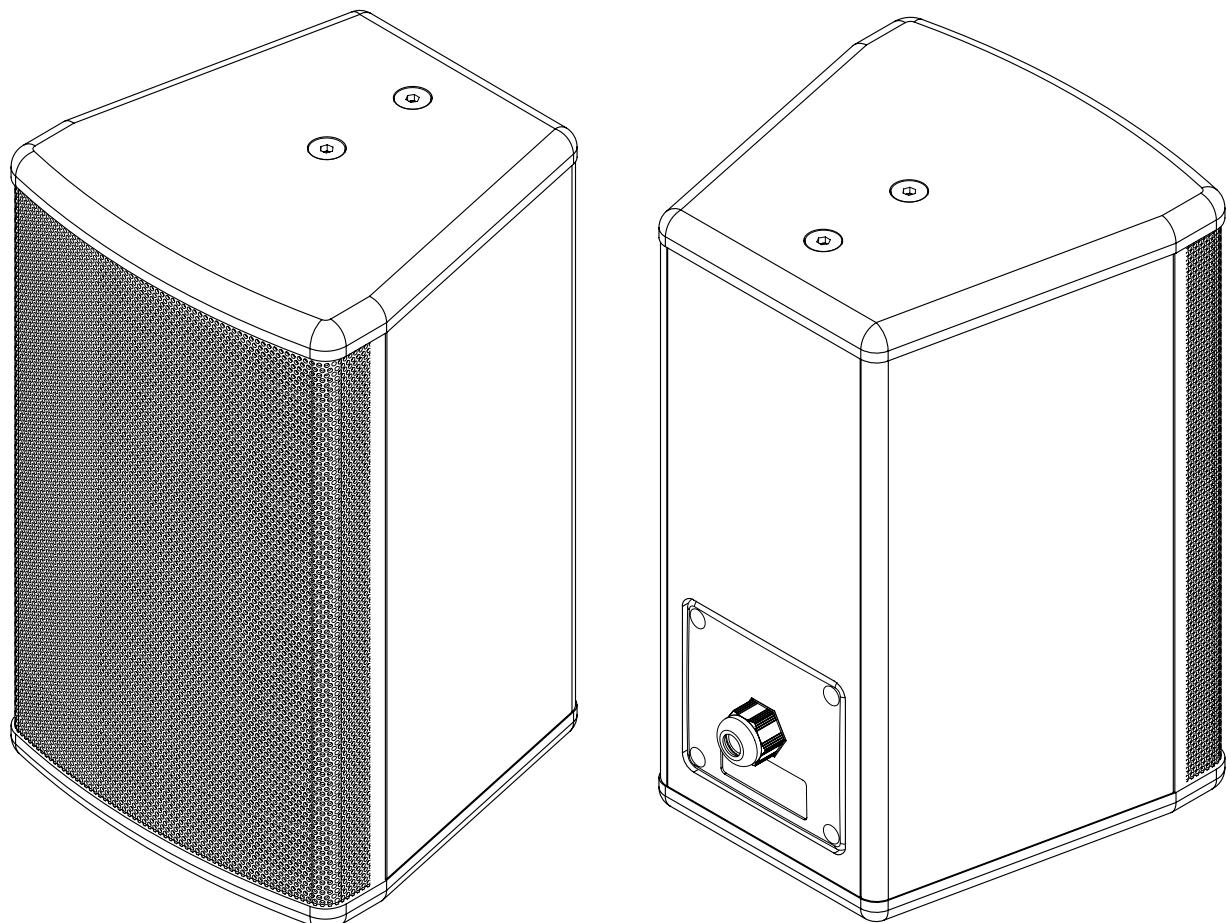
Bottom



Top

Further technical drawings for architectural requirements are available in DXF and DWG format for download on the website.

BT-6WP 3D View



Accessories and Spare Parts

- BC-6 Cradle Vertical
- HWB wall bracket
- PTS small rear pan and tilt bracket
- SWB small wall bracket
- S-SA Stand adaptor
- SS-1 speaker stand
- TP-1 adjustable threaded pole
- BT-6WP 6" Coaxial Low Frequency Driver
- BT-6WP Horn Loaded Tweeter
- BT-6WP steel grill assembly
- BT-6WP backplate and crossover

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, 1x Horn Loaded Tweeter. Homogeneous radiating linear behaviour. Integrated passive crossover with phase optimization. Constructed from recycled polymer, eco-friendly scratch resistant paint, 6 x M6 flying points for cradle mount, kick proof steel grill with OMEGA logo.

Technical Data:

Frequency Response: 73 Hz - 26 kHz (-10dB), 86 Hz - 24 kHz (± 3 dB), Continuous SPL: 110 dB/1m, Program SPL 112 dB/1m, Peak 116 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.). Connectors: IP54 Gland. Dimensions (H x W x D): 300 mm x 190 mm x 188 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 Audio 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 failure. Replace damaged or suspect items when necessary.

Safety Instructions Cont.

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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