## datasheet Impact 65T

The Impact series of full range, passive loudspeakers has been designed to be used in a variety of installed sound system applications, both indoors and outdoors, ranging from cafes and restaurants, clubs and wine bars to theatres, mass transport facilities, retail environments and places of worship.

Impact series enclosures are injectionmoulded using unique gas-injected glass filled fire-retardant ABS plastic, giving an elegantly stylish and extremely durable finish, plus the added benefit of IP54 weather resistance making them suitable for installation outdoors or in humid conditions.

The Impact 65T is a passive two-way reflex design loudspeaker using two proprietary 5" low frequency drive units matched to two 1" neodymium ferrofluid-cooled HF tweeters with an internal passive crossover network. It is supplied as standard with a multitapped internal line transformer for use in 70 volt line and 100 volt line distributed systems, and includes a low impedance setting. The Impact 65T will provide high quality sound reproduction from an unobtrusive cabinet designed to blend effectively into any decor.

The low frequency range of the Impact 65T can easily be extended with subwoofers from the TSB range of bandpass enclosures. Passive subwoofers such as the TSB-110 provide sub-bass support without the need for additional crossovers and amplifiers by connecting to the Impact satellite speakers through the passive crossover built into the subwoofer.

The Impact 65T is supplied with a universal adjustable wall mounting bracket which provides the loudspeaker connections as an integral part of the bracket assembly. This facility allows the brackets to be sited, installed and wired independently of the loudspeakers being available on-site, making the final installation and commissioning of the loudspeaker system a greatly simplified and considerably faster process. The cabinet also provides M6 fixings for use with CB-10 wall brackets, WB-10 ceiling brackets and OmniMount<sup>™</sup> brackets

A 3/8" threaded insert is provided behind an EDPM rubber cover on the bottom of the cabinet for use with microphone stands as a spot monitor.

The drive units are protected by a perforated stainless steel grille which, together with the moulded cabinet, provides IP54 weather resistance suitable for outdoor applications.

#### **FEATURES**

Injection-moulded enclosure

70v/100v line transformer with low impedance tap

**Paintable enclosure** 

**IP54** weather resistance

Wall bracket with integral connections

OmniMount<sup>™</sup> compatible

#### **APPLICATIONS**

Cafés and bars Restaurants Sports and leisure Discotheques and clubs Themed environments Retail shops Houses of Worship



# datasheet Impact 65T

## IMPACT SERIES ENGINEERING INFORMATION

2 x 1" (25mm) ferrofluid-cooled neodymium HF tweeters 20kHz ±10dB s watts program e beak ts, 30 watts, 15 watts (100v line); s, 7.5 watts (70v line), and low impedance setting at 4.5kHz, 12dB/octave
20kHz ±10dB s watts program e beak ts, 30 watts, 15 watts (100v line); s, 7.5 watts (70v line), and low impedance setting
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ts, 30 watts, 15 watts (100v line); s, 7.5 watts (70v line), and low impedance setting
s, 7.5 watts (70v line), and low impedance setting
s, 7.5 watts (70v line), and low impedance setting
at 4.5kHz, 12dB/octave
d ABS enclosure
stainless steel grille
/B-5 wall bracket (supplied). Compatible with WB-10 wall bracket and OmniMount™ brackets
S
lack
ssover network wall bracket et cket

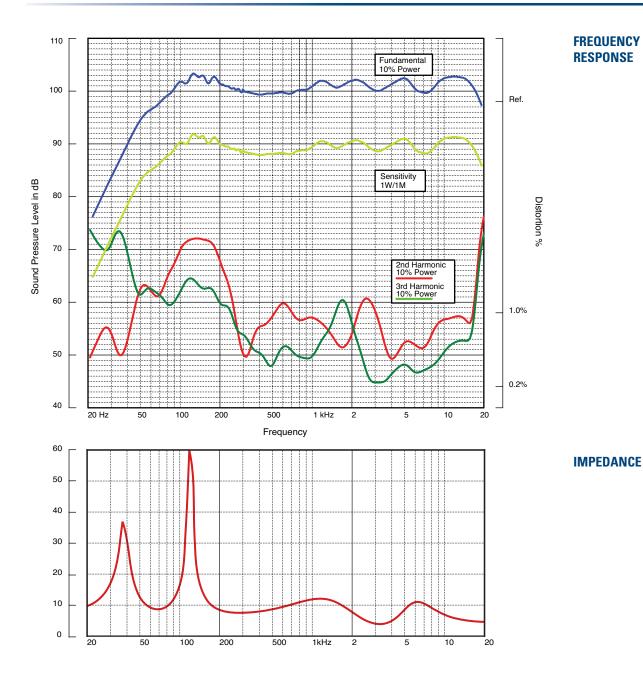
All measurements are actual figures taken from real-time testing using stated inputs, free from any filtering or weighting.

Therefore actual figures may significantly exceed that of other manufacturers with higher published weighted ratings. Notes

<sup>1</sup>Measured on axis

<sup>2</sup>Average over stated bandwidth.

## datasheet Impact 65T

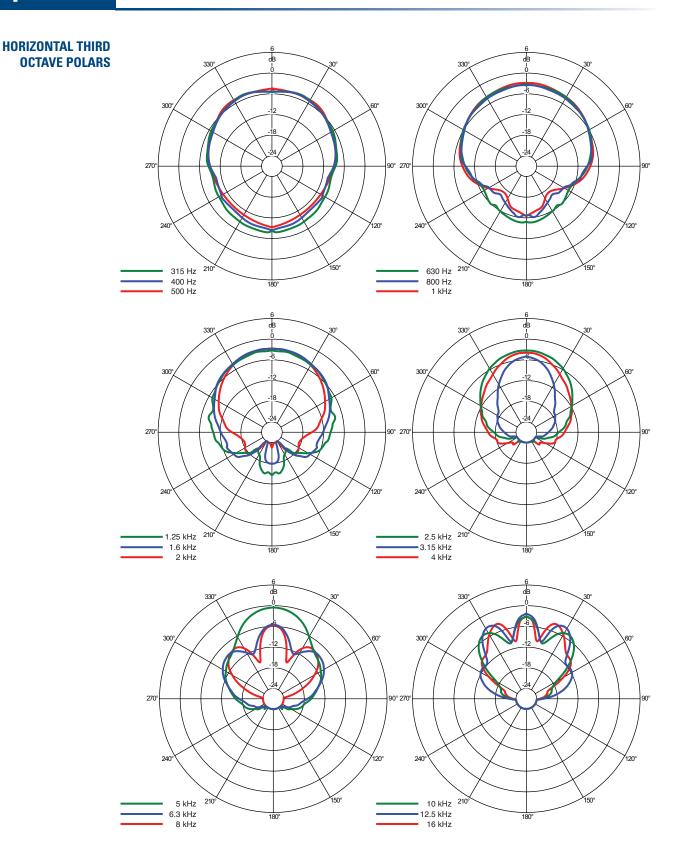


Impedance A constant current circuit was used to measure the impedance. Frequency response The frequency response shown was obtained by feeding a swept sine wave through the system in a half space environment. The position of the microphone was vertically on-axis at a distance of 2 metres, then scaled to represent 1 metre. 2nd & 3rd Harmonic Distortion Distortion measurements were obtained using an Audio Precision harmonic distortion analysis system and comply with AES recommendations for enclosure measurement (AES paper ANSI S4-26-1984). Data Conversion All graphs were digitally generated using the APEX custom software system, designed to translate data derived from Audio Precision 'System One' test equipment into AutoCAD<sup>™</sup>. This program enables graphical information to be plotted to a high degree of accuracy.

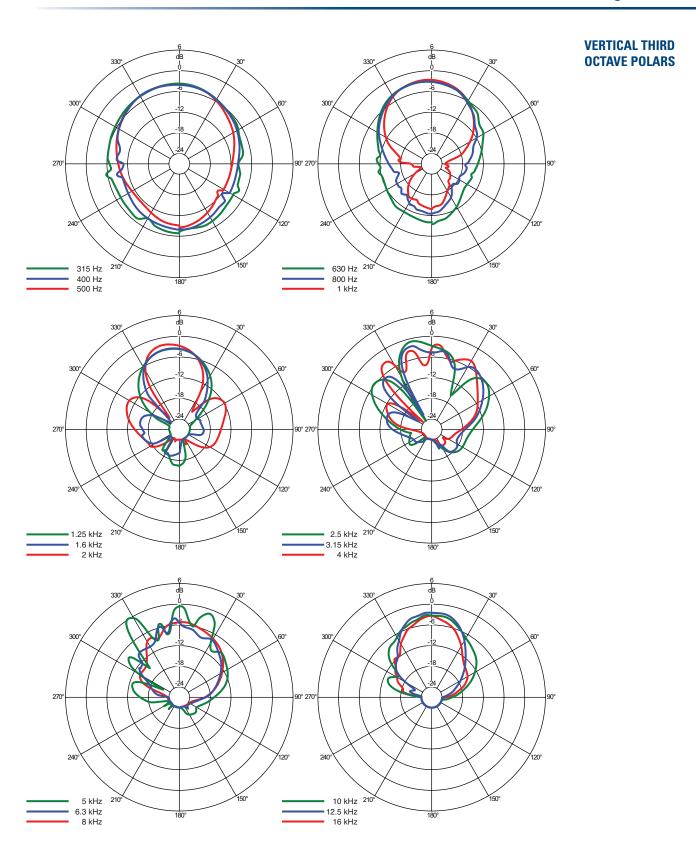
### NOTES ON MEASUREMENT CONDITIONS

# datasheet Impact 65T

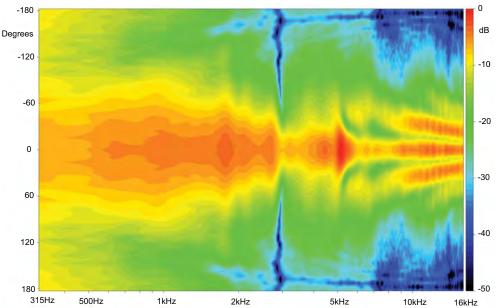
### IMPACT SERIES ENGINEERING INFORMATION



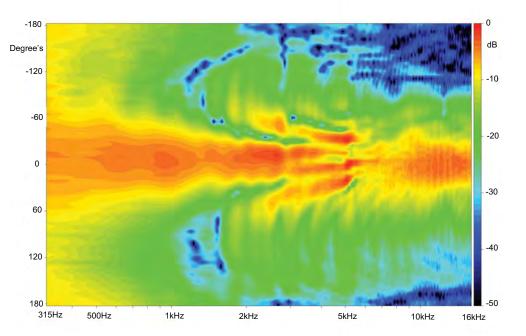
# datasheet Impact 65T







HORIZONTAL DIRECTIVITY



VERTICAL DIRECTIVITY

The supplied wall bracket provides integral electrical connections to the loudspeaker, allowing the brackets to be installed independently of the loudspeakers being available on site. It allows for a wide range of adjustment angles in both horizontal and vertical planes.

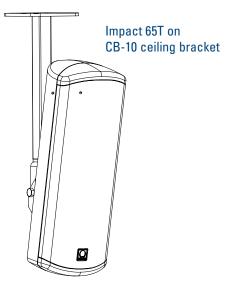
INSTALLATION HARDWARE

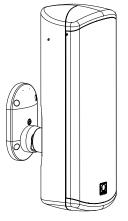
datasheet

**Impact 65T** 

The cabinet can also be installed using CB-10 ceiling brackets and WB-10 wall brackets, as well as with OmniMount<sup>™</sup> wall and ceiling brackets.

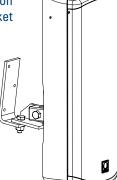
A threaded insert is also provided on the bottom of the cabinet, and this can be used to attach the loudspeaker to standard 3/8" microphone stand fittings.





Impact 65T on WB-5 wall bracket

Impact 65T on WB-10 wall bracket

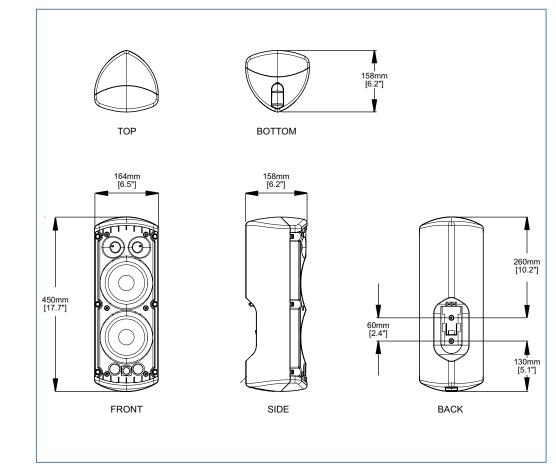


# datasheet Impact 65T IMPACT SERIES ENGINEERING INFORMATION

### ARCHITECTURAL & ENGINEER'S SPECIFICATIONS

The system shall be of the passive two-way type consisting of two 5" (127mm) low frequency loudspeakers and two 1" (25mm) ferrofluid-cooled neodymium high frequency tweeters and shall be supplied with an adjustable wall bracket providing integral electrical connections. Performance specifications of a typical production unit shall meet or exceed the following: Frequency response, measured with swept sine wave input, shall be flat within  $\pm 3dB$  from 74Hz to 18kHz, and within  $\pm 10db$  from 43Hz to 20kHz. Nominal dispersion, at -6dB points, shall average 100°H x 70°V. Nominal impedance shall be 8 ohms. Power handling shall be 120 watts continuous, 240 watts program. Sensitivity, measured with 1 watt input at 1 metre distance on axis, mean averaged over stated bandwidth shall be 90dB. Maximum SPL (peak) measured with music program input at stated amplifier power shall be 117dB. Dimensions: 450mm x 164mm x 158mm (17.7" x 6.5" x 6.2"). Net weight: 5kg (11lbs). The loudspeaker system shall be the Turbosound Impact 65T. No other loudspeaker shall be acceptable unless submitted data from an independent test laboratory verify that the above combined performance / size specifications are equalled or exceeded.

DIMENSIONS





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