



In many installations, subwoofer position is a choice between power or placement. With only 24 cm of height, the B14i allows system designers to place this custom designed sub in a space the height of a typical 8" subwoofer, significantly increasing placement options without compromising output.

The B14i is compact enough to be placed under stages, furniture, in ceilings and behind curtains. It can also be deployed to provide directional arrays with very small frontal area. To achieve this, TWAUDIO placed a specifically developed a 14" long excursion driver in a bandpass enclosure providing up to 6 dB more SPLmax compared to a traditional 2 × 8" subwoofer of identical size with usable frequency response from 39-300Hz (-6 dB) depending on preset.

The B14i comes with i-series standard screw terminal connections at the rear with optional speakON™ and cable gland available. Five recessed M10 threads allow multiple mounting options via brackets or steel wires.

The B14i allows system designers to place subwoofers for acoustic not just physical reasons...Yes, even under a sofa.

Key Features

- » Ultra compact low profile design with only 24 cm of height
- » "Invisible under sofa subwoofer"
- » Wall or (suspended) ceiling mounting
- » 14" long excursion chassis with 3.5" voice coil and 1400W program power
- » 6 dB more SPLmax compared to traditional 2 × 8" subwoofer
- » Coherent phase response with all TWAUDIO subwoofers
- » Operation with dedicated TWAUDIO presets on Lab.gruppen PLM/D or Powersoft K/X series

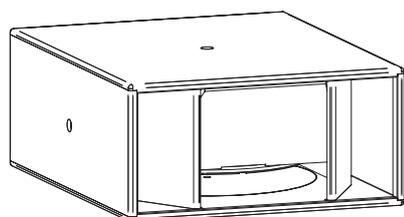
Applications

- » Clubs, bars, restaurants, theatres
- » Conference rooms or churches
- » TV studios
- » Integration in interior design and furnishings

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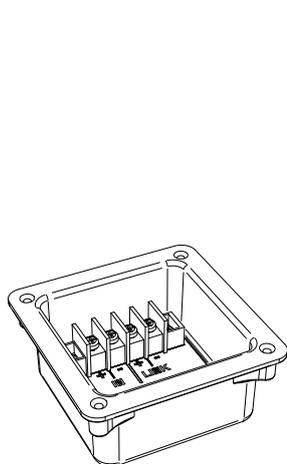
Technical Data



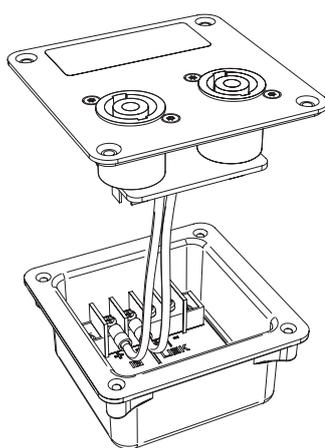
Drivers	1 x 14" LF
Frequency range	39Hz - 120* Hz
Power capacity program/peak	1400/2800W
Impedance	8Ω
Coverage	omni
Sensitivity 1 W / 1 m	93 dB
SPLmax / 1 m	126 dB
Connection	screw terminal IN± LINK±
Optional connections	speakON™ NL4 cable gland
Dimensions (H x W x D)	240x500x600 mm 9.5x19.7x26.6 in
Weight	20.4 kg 45 lbs
Finish	Warnex texture paint (RAL colors optional), polyurea coating (black) optional
Accessories	RSM10, SBB14i, QBB14i

* With dedicated presets a frequency of up to 300Hz can be achieved.

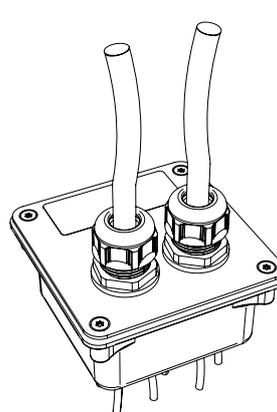
Connections



STANDARD SCREW TERMINAL



speakON™ - OPTION
SO sub #4704



CABLE GLAND - OPTION
CG #4324

Notes

Frequency range:

Loudspeaker measured with dedicated preset in full space, corner-frequencies are at -6 dB in relation to the average response which is within a tolerance of +/- 3 dB.

Corner-frequencies can be extended with additional EQ.

Sensitivity:

Sound pressure level the loudspeaker generates at 1 m distance to its frontgrille within its frequency bandwidth when applying 1 W in respect to its nominal impedance (2.83V into 8 Ohms) in full space.

Dispersion:

Defines the nominal horizontal by vertical dispersion of the loudspeaker. Angles of nominal dispersion are defined at the points where the average SPL dropped down by -6dB compared to on axis measurement. This affects mainly the mid-high frequency range above 1 kHz. HF-horns are rotatable or/and exchangeable.

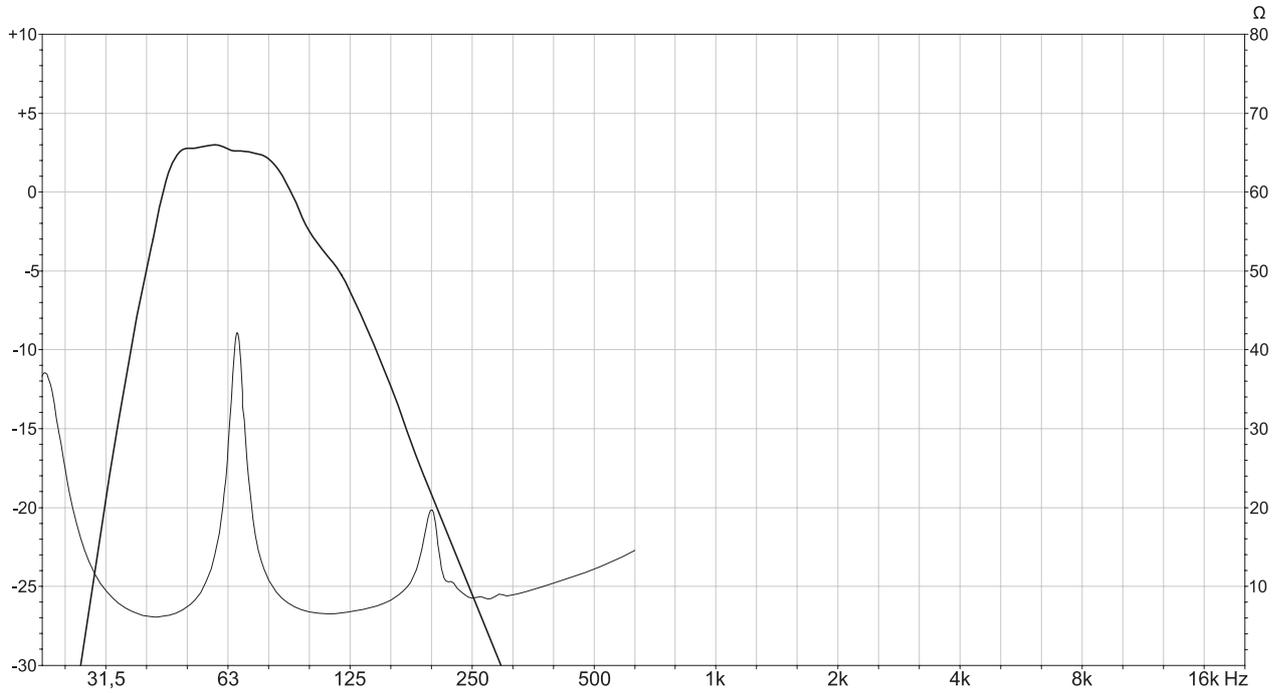
Low frequency dispersion mainly depends on the size of the sound source (loudspeaker) except in dedicated "cardioid products".

SPLmax / 1 m:

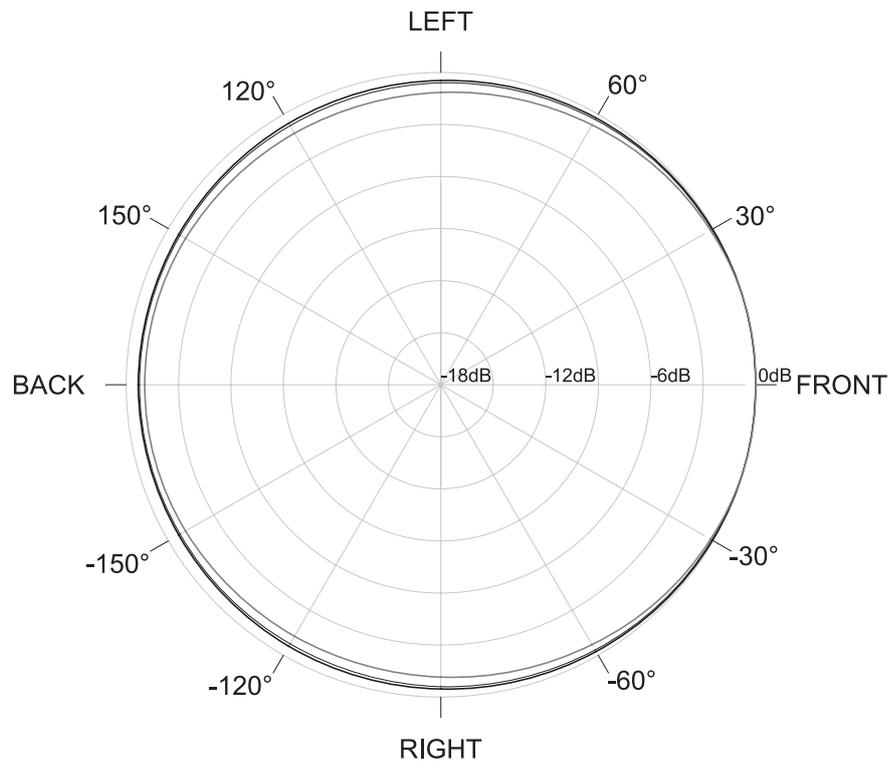
Sound pressure level the loudspeaker will generate at 1 m distance to its frontgrille when applying 185 ms burst signals within the frequency bandwidth slightly increasing them until 10% of total harmonic distortion will be reached (-> peak value. RMS value will be 3 dB lower). Without distortion limits and with bandlimited pinknoise with Crest factor 4, the peak SPLmax levels can be up to 10 dB higher at several frequencies.

Frequency response WITH PRESET

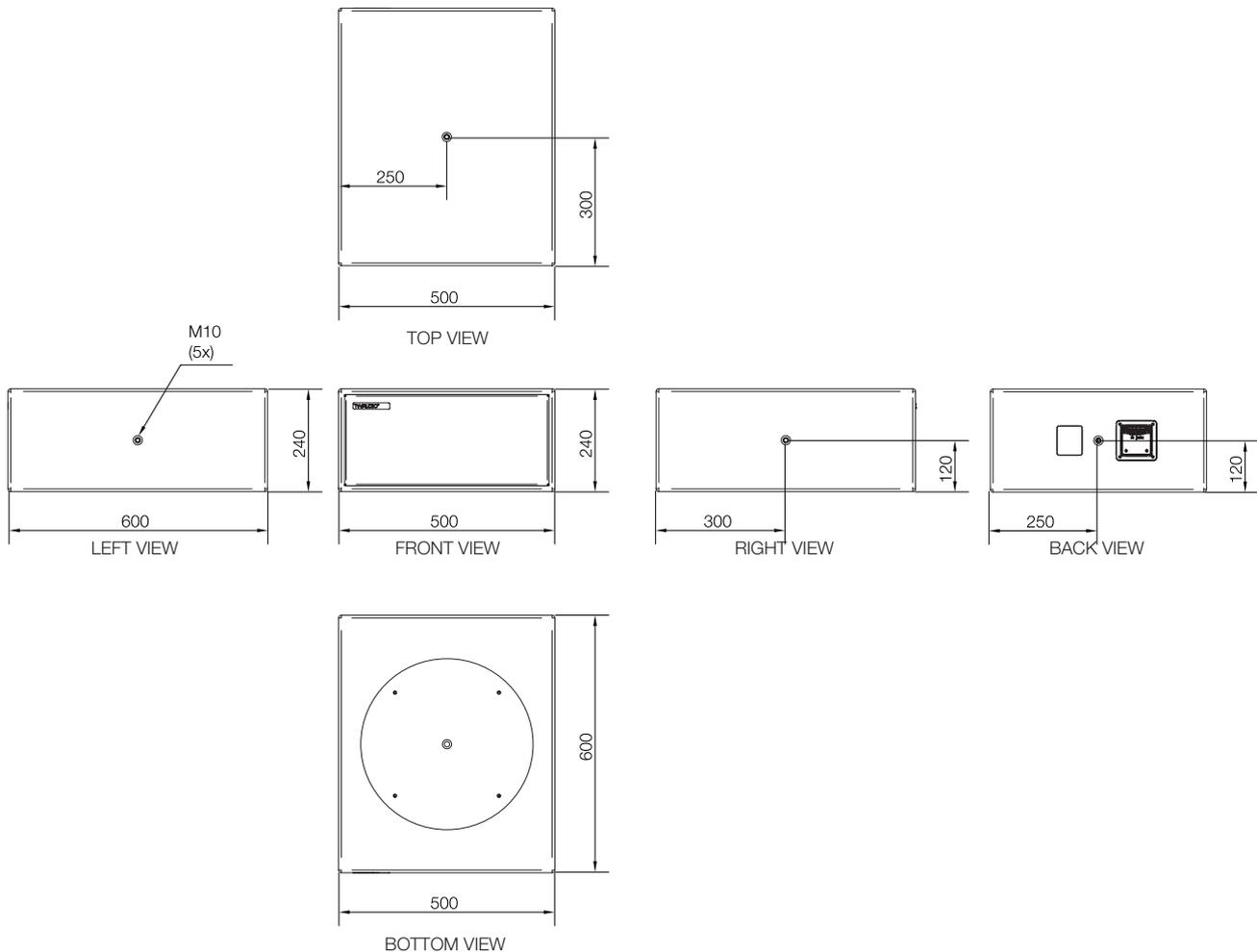
IMPEDANCE



Polar Pattern 40Hz | 63Hz | 100Hz



Technical Drawing



Tender specification

The loudspeaker shall be of a very compact sized subbass type design, able to be used singly, in multiple ground-stacked or flown configurations. Its transducer shall consist of one long excursion 14-inch cone driver, and be rated to handle 1400W program and 2800W peak.

The loudspeaker performance specifications shall be: Operating frequency range shall be 39Hz to 120Hz, and up to 300Hz, depending on the preset in use. Nominal impedance shall be 8Ohms. Nominal sensitivity SPL shall be 93dB at 1W/1m. Maximum peak SPL shall be 126dB at 1m. Beamwidth shall be 360 degrees for a single unit, whilst directional characteristics can be achieved with multiple cabinets.

The loudspeaker shall only be operated with a DSP amplifier, using dedicated presets, which all include equalization, phase and limiting functions. Connections shall be done with screw terminals as standard, for additional environment resistance a sealing PG type gland coverplate

can be used. As alternative, a coverplate with speakON™ NLT4 connectors, the loudspeaker being connected to Pin2+/-, shall be available too. Through all options the loudspeaker shall be linkable.

All components shall be mounted in a internally braced rectangular enclosure, featuring a band-pass sub design and being constructed of premium birch plywood with a black (as standard, other RAL colors as option) structured finish. For discreet appearance, no handles or rubber feet shall be fitted.

M10 threads on top, bottom, back and on both sides shall serve for mounting of additional rigging parts. Rigging equipment shall be available, allowing the loudspeaker to be flown in any possible onfiguration. The front protective grille shall be made of a perforated, non reflective powder coated and durable steel, backed by flame retardant, hydrophobic and acoustically transparent black fabric.

Dimensions shall be 500mm (19.69") in width, 240mm (9.45") in height, 600mm (23.62") in depth.

Weight shall be 20.4kg (44.97lbs).

The loudspeaker shall be the TWAUDIO B14i.

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