



The T30i is a full range installation loudspeaker equipped with two 15" long excursion chassis for the low-mid range and a 1.4" compression driver placed in between for the mid-high range.

The user has the possibility of covering the entire frequency range with just one loudspeaker: Whether in multi-purpose venues, sports halls, churches, theatres or clubs as a power DJ monitor, wherever it is not possible or necessary to place an additional subwoofer but the importance is a natural, punchy, clear musical reproduction and outstanding speech intelligibility, that's where the T30i finds its place.

The mid-high range is reproduced from 700Hz with a newly developed compression driver which is coupled to a large-scale, rotatable 90° × 50° constant directivity horn. This results in a precise and dynamic voice and musical reproduction at already low volume.

As the T30i is compatible with all TWAUDIO subwoofers, those can also be used for more sub bass.

Key Features

- » Full range point source system usable from 34Hz without additional subwoofer
- » Two long excursion drivers with 4" coil and 2000W each
- » Large-scale, rotatable 90° × 50° horn with constant directivity
- » Crossover design for optimised speech intelligibility and directivity
- » Coherent phase response with all TWAUDIO products
- » Operation with dedicated TWAUDIO presets on Lab.gruppen PLM/D or Powersoft K/X series

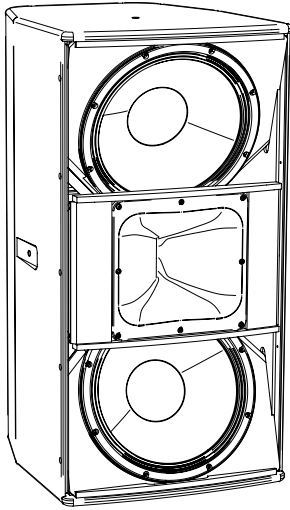
Applications

- » Main system for applications in clubs, bars, churches or TV studios
- » Sports halls, restaurants
- » (Stand alone) DJ monitor
- » Delay-line
- » Horizontal applications

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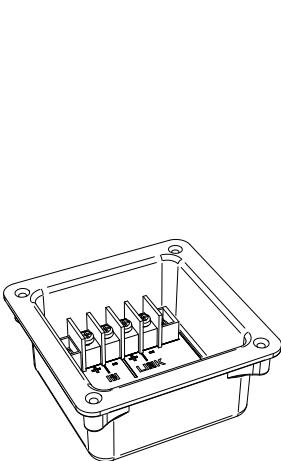
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Technical Data

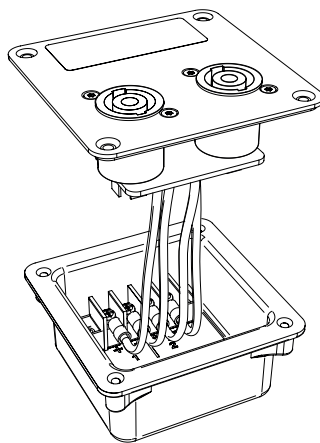


Drivers	2 x 15" LF 1 x 1.4" Exit-HF
Frequency range	34 Hz - 20000 Hz
Power capacity program/peak	4000/8000 W LF 200/400 W HF
Impedance	4 Ω LF 8 Ω HF
Coverage	90° x 50° HF-horn, rotatable
Sensitivity 1 W / 1 m	103 dB LF 109 dB HF
SPLmax / 1 m	139 dB
Connection	screw terminal 2± LF 1± HF
Optional connections	speakON™ NL4 cable gland
Dimensions (H x W x D)	1000 x 500 x 600 mm 39.4 x 19.7 x 23.6 in
Weight	58 kg 127.9 lbs
Finish	Warnex texture paint (RAL colors optional), polyurea coating (black) optional
Accessories	SBT30i, RSM10, URA30i

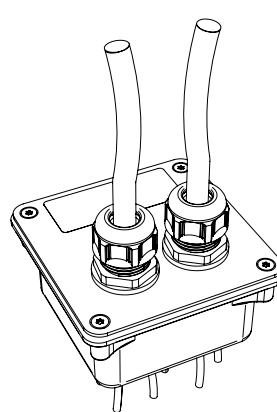
Connections



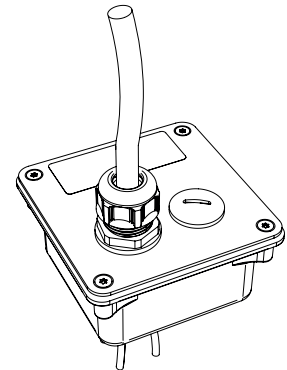
STANDARD SCREW TERMINAL



speakON™ - OPTION
SO bi-amp #4255



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 (2.83 V into 8 Ohms) in full space.

Dispersion:

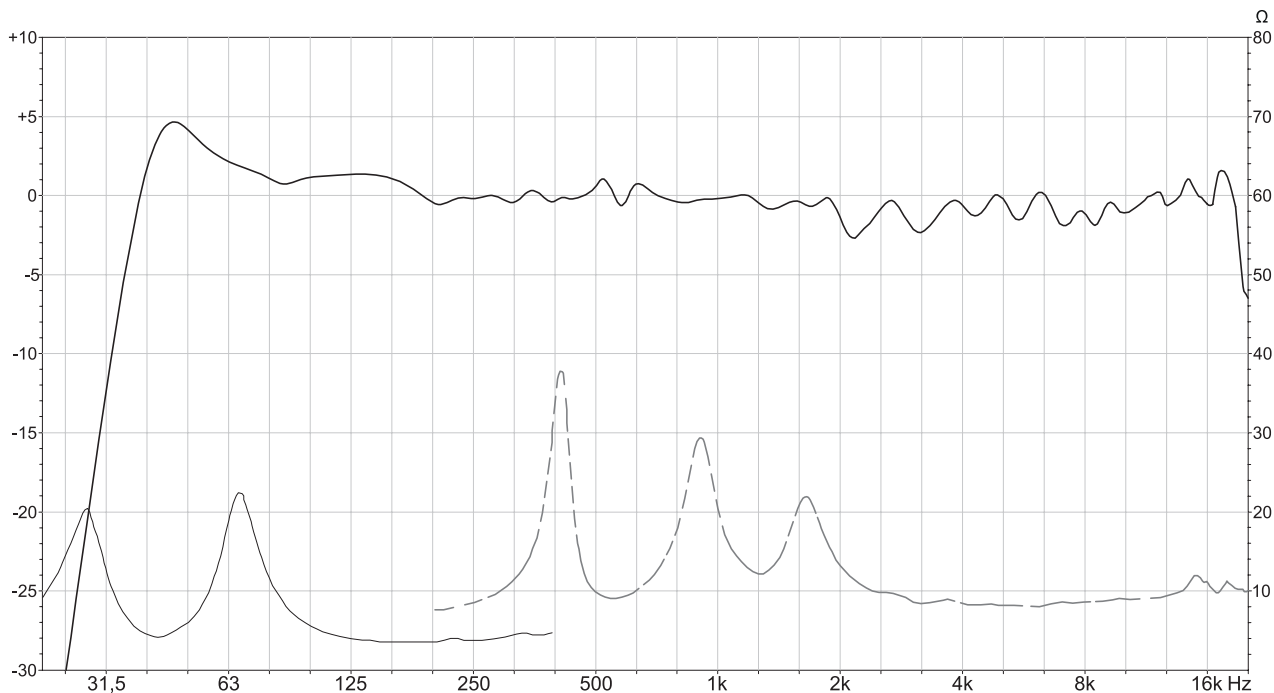
Defines the nominal horizontal by vertical dispersion of the loudspeaker. Angles of nominal dispersion are defined at the points where the average SPL dropped down by -6 dB compared to on axis measurement. This affects mainly the mid-high frequency range above 1 kHz. HF-horns are rotatable or/and exchangeable.
Low frequency dispersion mainly depends on the size of the sound source (loudspeaker) except in dedicated "cardioid products".

SPLmax / 1 m:

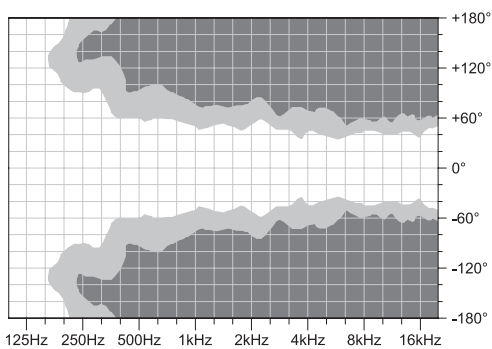
Sound pressure level the loudspeaker will generate at 1 m distance to its frontgrille when applying 185 ms burst signals within the frequency bandwidth slightly increasing them until 10% of total harmonic distortion will be reached (-> peak value. RMS value will be 3 dB lower). Without distortion limits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

Frequency response FULL

IMPEDANCE LF | IMPEDANCE HF

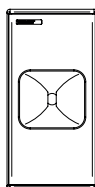


Isobar diagrams -6dB | -12dB

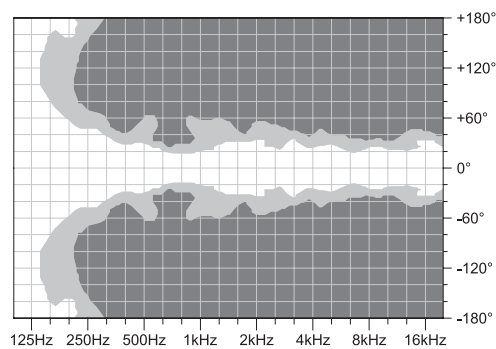


isobar diagram horizontal

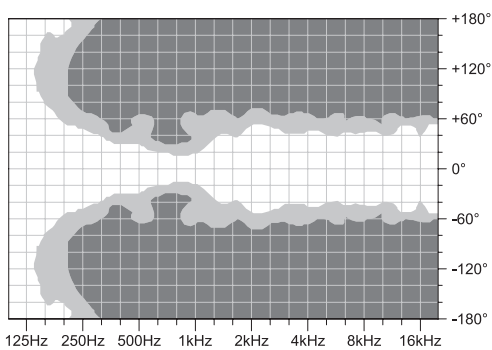
T30i
upright setup



90° × 50°

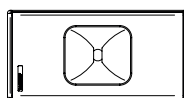


isobar diagram vertical

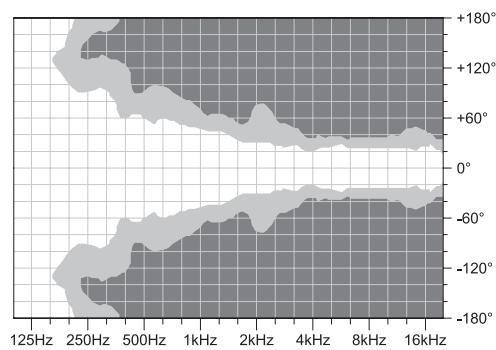


isobar diagram horizontal

T30i
horizontal setup,
horn rotated

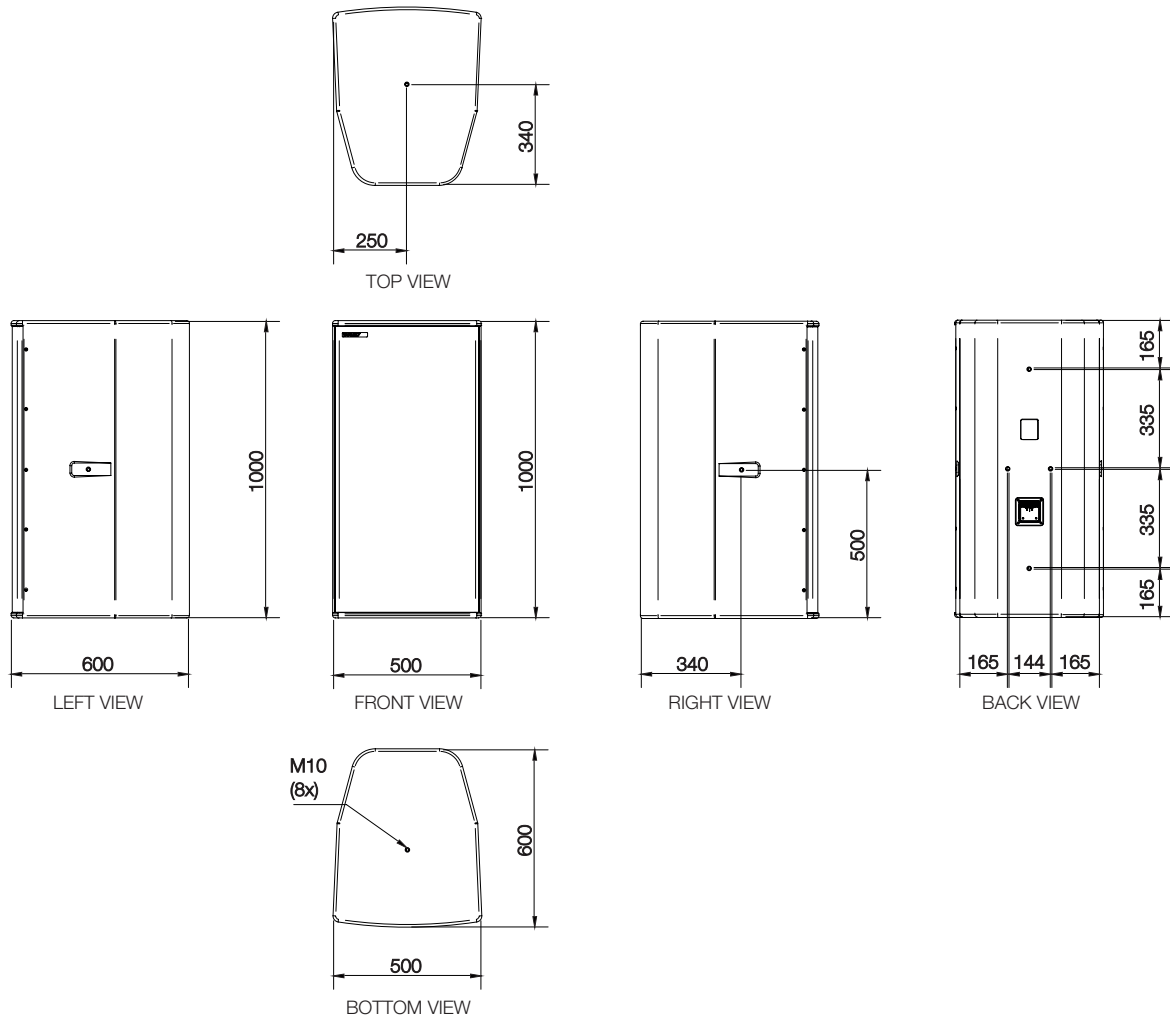


90° × 50°



isobar diagram vertical

Technical Drawing



Tender specification

The loudspeaker shall be of a symmetric fullrange type design, not needing the addition of subwoofers in most applications. The loudspeaker shall allow flawless performance in vertical as well as in horizontal orientation of the enclosure. It shall be a biamped two way, moderate sized horn in horn loudspeaker, able to be used in stacked or flown configurations. Its transducers shall consist of two long excursion 15-inch cone drivers and one new developed 1.4-inch exit high frequency compression driver, being connected to a exclusive, BEM method calculation based, large format rotatable 90 (h) x 50 (v) degree HF horn. All drivers shall feature a neodymium magnet assembly. Powerrating shall be: For LF 4000W program and 8000W peak, for HF 200W program and 400W peak.

The loudspeaker performance specifications shall be:
Operating frequency range shall be 34Hz to 20000Hz. Nominal impedance shall be 4Ohms for LF and 8Ohms for HF. Nominal sensitivity

SPL shall be 103dB for LF and 106dB for HF at 1 W/1 m. Maximum peak SPL shall be 139dB at 1 m.

The loudspeaker shall 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+/- for LF and Pin 1+/- for HF, shall be available too. Through all options the loudspeaker shall be linkable.

All components shall be mounted in a internally braced, multi tapered enclosure, 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 and brackets. Various rigging equipment shall be available, allowing the loudspeaker to be flown and angled in any possible configuration. 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 (19.68") in width, 1000mm (39.37") in height and 600mm (23.62") in depth.
Weight shall be 58.0kg (127.86 lbs).

The loudspeaker shall be the TWAUDIO T30i.

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