The T20i is a consequential transformation of our users requirements. A compact, 30 cm (11.8") slim 2 × 10"/1.4" top in a symmetric construction, perfectly suitable for use in vertical and horizontal applications.

Thanks to the sophisticated driver arrangement and passive crossover the T20i has a constant directivity, in both horizontal and vertical planes. Installations where low ceilings are a challenge a conventional two-way loudspeaker is a compromise, here the T20i excels.

The T20i comes standard with a rotatable 90° × 50° horn. With the option to utilise a separate 60° × 40° horn, providing four different dispersion characteristics.

Key Features

» Compact installation loudspeaker with symmetrical driver arrangement
» Equipped with 2 × 10" long excursion chassis and a 1.4" compression driver
» 90 × 50 degree or 60 × 40 degree rotatable constant directivity HF horn
» Horizontal and vertical installation with symmetrical dispersion possible
» Integrated mounting threads for numerous installation possibilities
» Coherent phase response with all TWAUDIO products
» Operation with dedicated TWAUDIO presets on Lab.gruppen PLM/D or Powersoft K/X series

Applications

» Full-range, standalone or with a subwoofer
» Drum-fill or front-fill in horizontal mode
» Side-fill in conjunction with vertical arrays
» Delay-line
» Main system for applications in clubs, bars, churches or TV studios
» As distributed system in bigger installations
» Other horizontal applications
### Technical Data

<table>
<thead>
<tr>
<th>Drivers</th>
<th>$2 \times 10^\text{&quot;} \text{LF} \mid 1 \times 1.4^\text{&quot;} \text{Exit-HF}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency range</td>
<td>$60 \text{Hz} - 18000 \text{Hz}$</td>
</tr>
<tr>
<td>Power capacity program / peak</td>
<td>$1000 / 2000 \text{W}$</td>
</tr>
<tr>
<td>Impedance</td>
<td>$8 \Omega$</td>
</tr>
<tr>
<td>Coverage</td>
<td>$90^\circ \times 50^\circ \mid 60^\circ \times 40^\circ$ optional</td>
</tr>
<tr>
<td>Sensitivity $1 \text{W} / 1 \text{m}$</td>
<td>$106 \text{dB}$</td>
</tr>
<tr>
<td>SPL max / $1 \text{m}$</td>
<td>$138 \text{dB}$</td>
</tr>
<tr>
<td>Connection</td>
<td>screw terminal IN±</td>
</tr>
<tr>
<td>Optional connections</td>
<td>speakON™ NL4</td>
</tr>
<tr>
<td>Dimensions (H × W × D)</td>
<td>$600 \times 300 \times 400 \text{mm} \mid 23.6 \times 11.8 \times 15.8 \text{in}$</td>
</tr>
<tr>
<td>Weight</td>
<td>$23 \text{kg} \mid 50.7 \text{lbs}$</td>
</tr>
<tr>
<td>Finish</td>
<td>Warnex texture paint (RAL colors optional), polyurea coating (black) optional</td>
</tr>
<tr>
<td>Accessories</td>
<td>SBT20i, QBT20i, RSM10, URA20i</td>
</tr>
</tbody>
</table>

### Connections

**Standard Screw Terminal**

**SpeakON™ - Option**

**Cable Gland - Option**

### 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 ($2.83 \text{V into 8\Omega}$) 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”.

**SPL max / 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 SPL max levels can be up to 10 dB higher at several frequencies.
T20i
90° × 50° HORN

Frequency response

FULL | FLAT | CUT

IMPEDEANCE

Isobar diagrams -6 dB | -12 dB

T20i
upright setup

90° × 50°

T20i
horizontal setup, horn rotated

90° × 50°

Isobar diagrams horizontal

Isobar diagrams vertical
Frequency response  FULL | FLAT | CUT

Isobar diagrams  -6dB | -12dB

T20i upright setup

T20i horizontal setup, horn rotated

impedance

isobar diagram horizontal

isobar diagram vertical

isobar diagram horizontal

isobar diagram vertical
The loudspeaker shall be of a symmetric top type design, allowing flawless performance in vertical as well as in horizontal orientation of the enclosure. It shall be a passive two way, slim sized horn in horn loudspeaker, able to be used in stacked, pole mounted or flown configurations. Its transducers shall consist of two 10-inch cone drivers and one 1.4-inch exit high frequency compression driver, being connected to a exclusive, BEM method calculation based, rotatable 90 (h) × 50 (v) degree (T20i-90) or 60 (h) × 40 (v) degree (T20i-60) dispersion HF horn. All drivers shall feature a neodymium magnet assembly. Power rating shall be: 1000 W program and 2000 W peak.

The loudspeaker performance specifications shall be:
- Operating frequency range shall be 60 Hz to 18000 Hz.
- Nominal impedance shall be 8 Ohms.
- Nominal sensitivity SPL shall be 106 dB at 1 W / 1 m.
- Maximum peak SPL shall be 138 dB at 1 m.

Connections shall be done with screw terminals as standard, for additional environmental resistance a sealing PG type gland cover plate can be used. As alternative, a cover plate with speakON™ NLT4 connectors, the loudspeaker being connected to Pin 1+/−, 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.

Dimensions shall be 300 mm (11.81") in width, 600 mm (23.62") in height and 400 mm (15.74") in depth.

Weight shall be 23.0 kg (50.71 lbs).

The loudspeaker shall be the TW AUDIO T20i.

Manufacturer:
TW AUDIO GmbH
Osterholzallee 140-1
71636 Ludwigsburg, Germany
www.twaudio.com