



An innovative modern classic, the T24N delivers remarkable lows and low-mids, dynamic highs and pristine intelligibility, all in a compact cabinet that can be pole-mounted or flown as required.

It's no wonder that Germany's respected Production Partner magazine described it as representing „perfect loudspeaker construction at all levels“.

The story of the T24N goes back to the beginning of TWAUDIÖ itself and the original T24 - the first TWAUDIÖ loudspeaker. Widely considered a benchmark product in the live sound market and beyond, the T24 was compact yet strikingly powerful with an innovative 2x 12" / 1.4" horn-in-horn construction, enabling outstanding dynamic range and a maximum sound pressure level of 143dB with a front panel measuring just 70 x 40cm (27.6 x 15.7 in).

After a highly successful decade, the T24 underwent a substantial upgrade, becoming the lighter T24N. The T24N is fitted with custom 12" neodymium woofers which work in tandem with the upgraded enclosure construction to achieve full range capability from 65 to 18,000Hz. A newly designed 1.4" mid-high tweeter with a 3" titanium membrane reproduces precise, silky highs that reduce distortions to a minimum - even at the highest levels. The standard 60 x 40 degree horn can be quickly and easily exchanged for a 90 x 50 degree alternative (both also rotatable), without the use of tools.

Additionally, the bi-amp / passive switch gives you the choice between an uncompromising two-way active mode or an efficient passive mode.

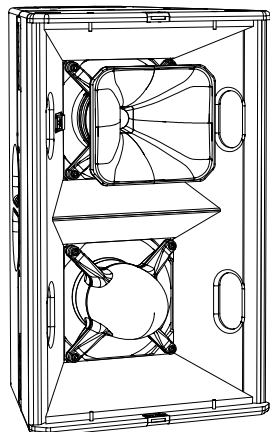
Key Features

- » Two 12" long excursion neodymium HF transducer and one 1.4" compression driver with 3" diaphragm
- » Switch to select operation mode passive or bi-amp
- » 90 x 50 degree or 60 x 40 degree exchangeable constant directivity HF horn
- » 143db Max SPL Peak, only 33 kg (73 lbs) weight
- » Integrated rigging rails on both sides with two positions each for the use of double studs and various accessories
- » Four handles for ergonomic handling of the box
- » Coherent phase response with all TWAUDIÖ subwoofers
- » Operation with dedicated TWAUDIÖ presets on Lab.gruppen, Powersoft or Dynacord TGX and IPX amplifiers

Applications

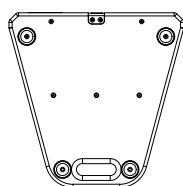
- » Galas, events and shows
- » Churches, houses of worship, religious places
- » Theatres and cultural places
- » Bars and restaurants
- » Arenas and sports venues
- » Concerts and touring

Technical Data

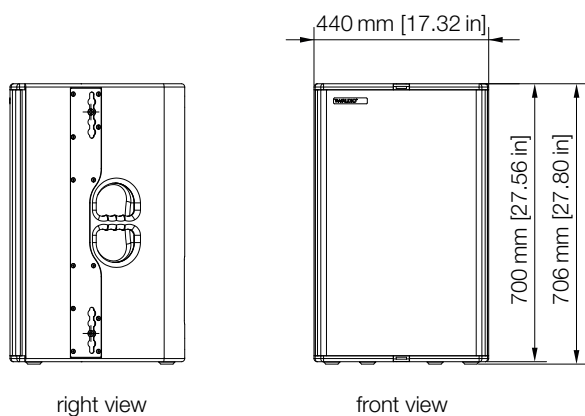


Drivers	2x 12" LF 1x 1,4" HF with 3" diaphragm
Frequency range	65 - 18000 Hz
Power capacity program/peak	Passiv: 1400/2800 W bi-amp: 1400/2800 W LF / 220/440 W HF
Impedance	Passiv: 4 Ω bi-amp: 4 Ω LF / 8 Ω HF
Coverage (h × v)	60° × 40° oder 90° × 50° drehbar
Sensitivity 1 W/1 m	110 dB (passiv) 107 dB (bi-amp LF), 112 dB (bi-amp HF)
SPLmax / 1 m	143 dB
Connection	SpeakON® NL4 1± (passiv) NL4 1± HF / NL4 2± LF (bi-amp)
Dimensions (H × W × D)	706 × 440 × 440 mm 27.08 × 17.32 × 17.32 in
Weight	33,1 kg 73 lbs
Finish	Warnex textured paint (RAL colors optional)
Accessories	see twaudio.com

Technical Drawing

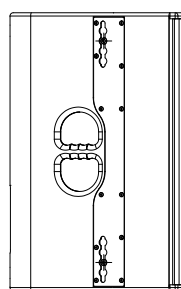


bottom view

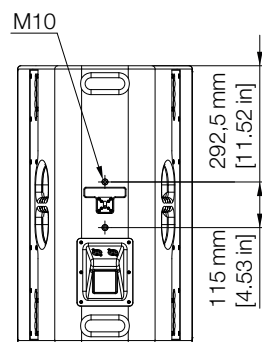


right view

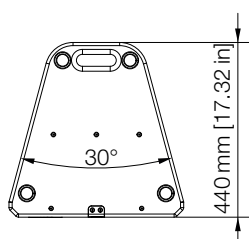
front view



left view



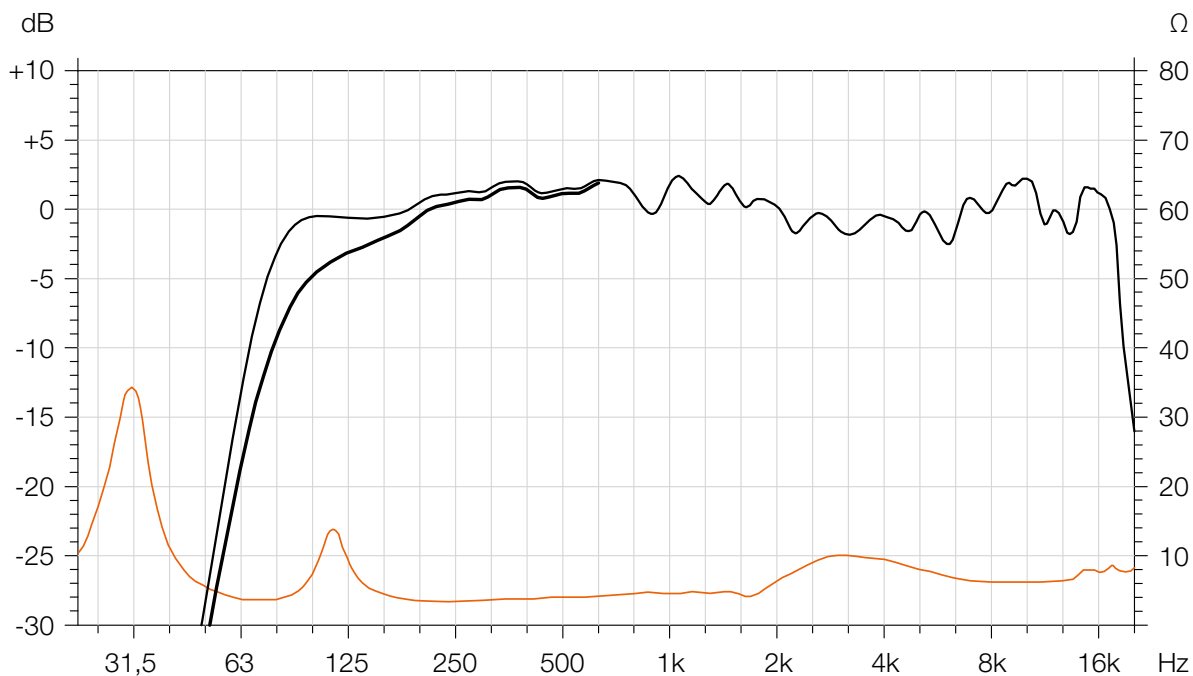
rear view



top view

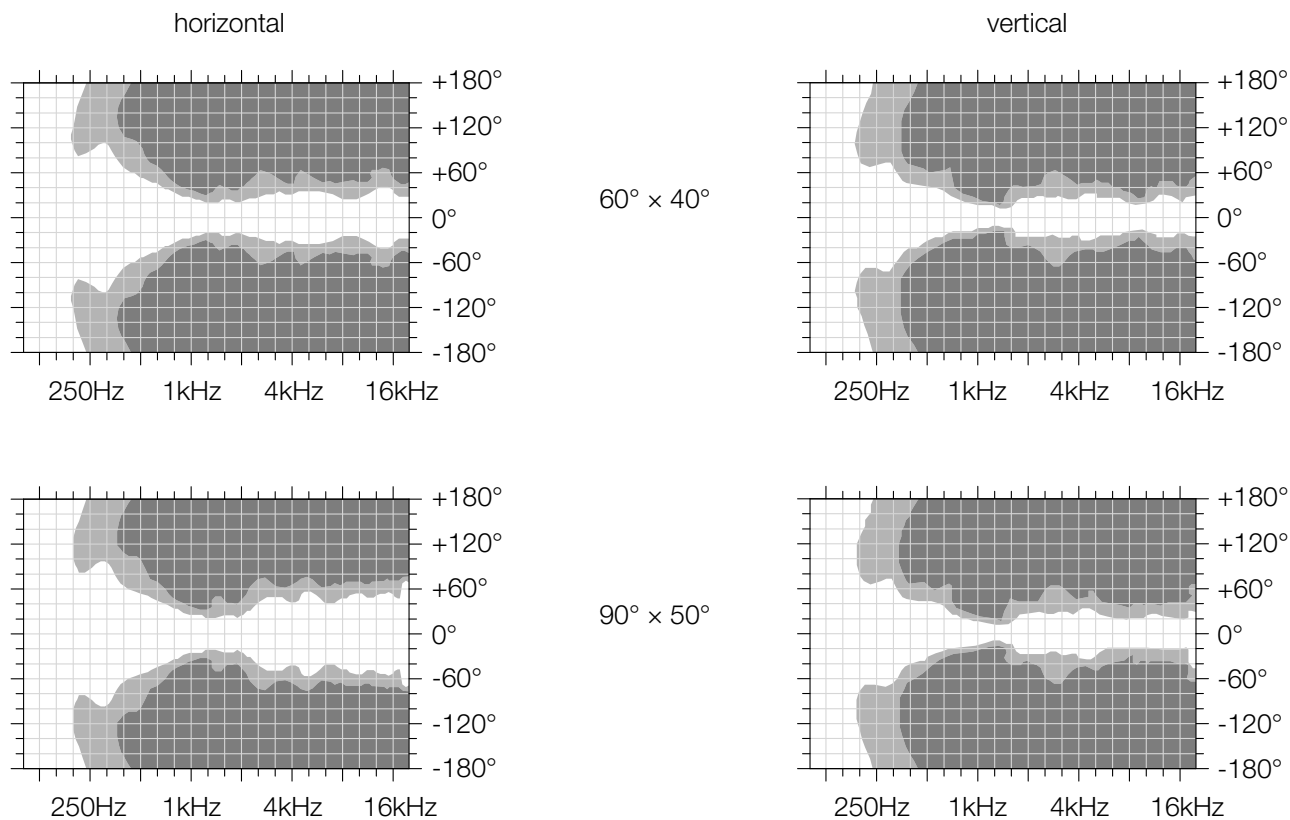
Frequency Response

FULL mode / **FLAT mode** | IMPEDANCE



Radiation Pattern

-6dB | -12dB



Architect Specifications

The loudspeaker shall consist of a 2-way passive enclosure, switchable from biamp mode to passive mode, driven and protected by a dedicated powered amplified controller.

The enclosure shall be an asymmetric top type design and feature two 12" neodymium LF transducers and one coaxial mounted 1.4" compression driver with 3" diaphragm. The loudspeaker shall feature one phaseplug in front of the second LF transducer.

The usable system bandwidth shall be 65Hz to 18kHz.

The driver configuration shall generate a polar pattern coverage of 60 (horizontal) x 40 (vertical) or 90 (horizontal) x 50 (vertical) degree depending on the connected exchangeable and rotatable HF horn.

Maximum peak SPL shall be 143dB. The long-term handling capacity in passive mode shall be 1400W program and 2400W peak. The long-term handling capacity in biamp mode shall be 2400W program and 400W peak for HF, and 1400W program and 2400W peak for LF. The nominal impedance of the loudspeaker in passive mode shall be 4Ω. The nominal impedance of the loudspeaker in biamp mode shall be 8Ω for HF and 4Ω for LF.

The enclosure cabinet construction shall consist of first grade birch plywood. The front of the enclosure shall be protected by a perforated, powder-coated steel, covered with a flame retardant, hydrophobic and acoustically transparent black 3D mesh fabric. The dimensions shall be 440mm (17.32in) in width, 706mm (27.80in) in height and 440mm (17.32in) in depth and the enclosure weight shall be 33kg (73lbs).

The enclosure shall include internal hardware for rigging and be used in conjunction with dedicated rigging accessories. The enclosure shall feature two integrated ergonomic handles, two carrying handles and four stacking rubber feet. The enclosure shall be connected via two parallel 4-pole speakON® sockets.

The loudspeaker shall be the TWAUDIO T24N.

References

The response curves of the system are available upon request – support@twaudio.com

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