

TEUTATES High Power 15 inch Subwoofer

Data sheet



YOU ART. WE SOUND.



Overview

TEUTATES is a ultra compact high power 15 inch subwoofer, with an operation frequency range from 31 Hz to 110 Hz at a maximum SPL of 134 dB. The primary use is together with DIANA and on option DIVA in flown or ground stacked configurations. Anyway it can be used in general with all speaker systems where extended low frequency level down to 35 Hz is needed. The width of TEUTATES is equivalent to DIANA.

The used 15 inch neodymium chassis has got a 4 inch voice coil with 50 mm linear excursion capability rated at 1500 watts AES. It's optional integrated frequency modulated free floating amplifier delivers 1550 watts (3100 watts peak). The four tunnel bass reflex design produces a symmetric airflow by using it's integrated **APCT „Air Pressure Control Technology“** for excellent sound with excellent THD level.

The CTG-2.7 multiframe, witch is the same as used for DIANA, can be easily attached via quick lock pins. It allows to fly up to 6 TEUTATES above 24 DIANA with a 12:1 safety factor, as well as ground stack configurations where a 6:3 ration of DIANA on TEUTATES my be safely ground stacked or equivalent divisions. Same regulations and possibilities when using DIVA together with CTM-2.5/1.2D adapter frame.

Operation

TEUTATES produces a very punchy and precise sounding bass signal with an extreme linear frequence response. In clustered configurations the TEUTATES subwoofer can produce a cardioid or hyper cardioid dispersion pattern with special settings on the HEIMDALL D1 digital controller, also in end fire configuration.

Applications

- Concert halls, theatres and houses of worship
- Touring sound reinforcement,
- Small to medium indoor or outdoor events

Features

- Very high power to size ration with optional integrated fan free amplifier
- Seamless integration with DIANA and DIVA line array loudspeakers
- Directional subwoofer array support via controller settings
- Easy quick lock system for fast flown or ground stacked configurations

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Technical Specifications

Transducers

- Low frequency: **15 inches** (381 mm) Neodymium
- Voice coil size and impedance: **4 inches** (101.6 mm) Cu, 8 ohms

Output at 1m

- **134 dB SPL** (3)
133 dB driven with PAX P16
134 dB driven with internal amps

Power Handling

- Low frequency: **4000 watts peak**
1200 watts AES
2400 watts program
rec. amp power on 4 ohms
2800 watts

Crossover type and frequency

- Sub to Low: **80 Hz - 120 Hz**

Frequency and Phase response

- Usable frequency range: **31 Hz - 110 Hz**
- Free field frequency response:
41 Hz - 150 Hz
- Phase response: **+/- 45°**
from 41 Hz to 110 Hz

Coverage

- Horizontal coverage symmetrical:
cardioid / hyper cardioid when clustered

Speakers per PAX P16 channel

- For external powered model:
2 / 4 (2) parallel via link connector

Connection

- For external powered model
2 x NL4 (1+/- LF, 2+/- Sens)

Mechanical specifications

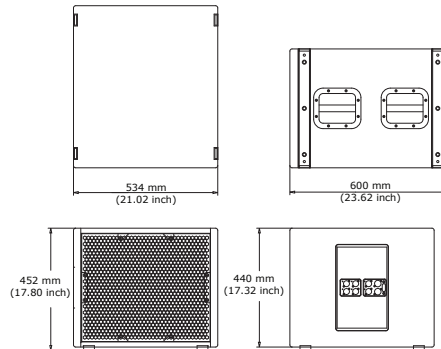
- Mounting: **4 Steal side plates** with quick lock
- Working load: 70 x Speaker-weight
- Construction: **18 to 30 mm** premium baltic birch plywood, black PU structured paint, hex stamped powder coated steal grill integrated full size zined, powder coated steal flying tracks, 4 handles, aluminum back plate. Internal amp module mounted on a 7 mm aluminum back plate with total passive fan free cooling.

Recommended additional Parts

- Flying frame: **Multi frame** CTG-2.7
Adapter multi frame CTM-2.5/1.2D
- Wheel board: Aluminum Wheelbase
CRB-1.2D for max 4x TEUTATES

Size and weight

- Height: **17.32 inches** (440 mm)
- Width: **21.02 inches** (534 mm)
- Depth: **23.62 inches** (600 mm)
- Weight:
83.78 lbs (38 kg) internal powered model
79.37 lbs (36 kg) external powered model



Internal Amp module

Type of output stage and power supply

- **Frequency modulated FM Class-D** with floating modulator, loop back regulated output filter. Fan free.
- power supply: **switch mode load regulated**

Total output Power and Volts

- Music: 3100 Watts / 163 V at 8 ohms
- **RMS: 1550 Watts** / 115 V long-term driven with 1 kHz sine wave signal at 8 ohms

Output power on connected load

- Low frequency: **1550 Watts rms**

Audio specifications

- IM: **< 0,05%**
- DIM: **< 0,005%**
- CMRR: **> 80 dB** (100 Hz) Typical **> 90 dB**

Audio inupte

- Connection: **XLR** female and male link
Pin 1 ground, 2 +, 3 -
- Impedance: **20 kOhms Symmetrical** between Pin 2 and 3
10 kOhms Unsymmetrical Pin 3 grounded

Ac Power specifications

- Connection: **Powercon** in and Powercon link
- Voltage and consumption:
180 - 265 VAC, 50 Hz, 2,5 kW

(2) possible only with short length cables.

(3) SPL max peak, test signal: pink noise with crest factor 6 dB.

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