

THD-150

SELF CONTAINED ULTRA-HIGH POWER TRANSPORTABLE HAILING SYSTEM

THD-150 is a complete, self contained acoustic hailing device that is optimised for transportable use. It generates extreme acoustic output from a compact unit. The acoustic section is optimised for clear highly intelligible voice communication over long distances.

The open frame structure makes it easily transportable and minimises sensitivity to wind.

The independence from external energy sources and the compact suitcase sized format makes it easy and quick to deploy in even the most difficult situations.

The THD-150 is equipped with the STENTOR unique keyhole mounting surfaces that allow quick and easy attachment of the exchangeable battery pack and extra hardware accessories.

Key Features:

- High acoustic output: >150db @1m
- Directional acoustic beam with minimal side lobe energy
- Long transmission range
- Innovative driver protection
- High efficiency power conversion for long battery life
- Easily swappable battery pack
- Choice of battery pack chemistry and capacity
- Professional military grade connectors and cabling
- All inputs fully protected against overvoltage and misuse
- 2 Double sided keyhole mounting surfaces
- Robust marine grade aluminium frame
- Heavy duty rubber feet for impact protection
- Compact: 296 x 354 x 508 mm
- Ergonomic weight: <19kg



Specifications

Acoustic and Electronic

Sound Pressure Level (SPL):	>150 dB @ 1m A-weighted.
Frequency response:	450Hz - 5kHz, ±3dB.
Communication range:	>1km over 88dB background noise
Beam width :	+20° @ 2kHz, -6dB
Internal power amplifier:	Optimised classD amplifier Exemplary 93% overall efficiency
Power supply:	Polyphase interleaved high power converter
Drivers:	Custom annular ring radiators
Driver protection:	Adaptive control with real time temperature and excursion limiter
Audio input:	Analog transformer balanced - 1VRMS sensitivity for nominal output @1kHz
Control:	Hardware control of elementary functions Open structure for software control

Power

Power Input:	16V-32VDC, 24VDC nominal Battery charger input 5V-60VDC
Power input protection:	Over/under voltage Polarity inversion 24V load dump acc ISO7637-2
Autonomy:	Loud speech (1/16 avg power): >1 hour Alarm (1/4 avg power): 0.5 hour On 200Wh LiFePo4 battery pack

Environmental

Operating temperature range:	-33°C to +55°C
Storage temperature:	-40 to +70°C
Dust and water ingestion:	IP66

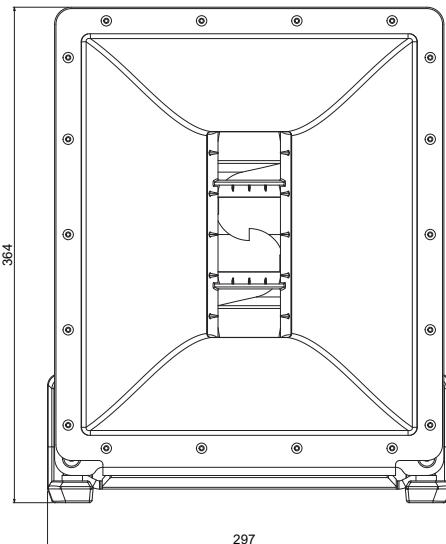
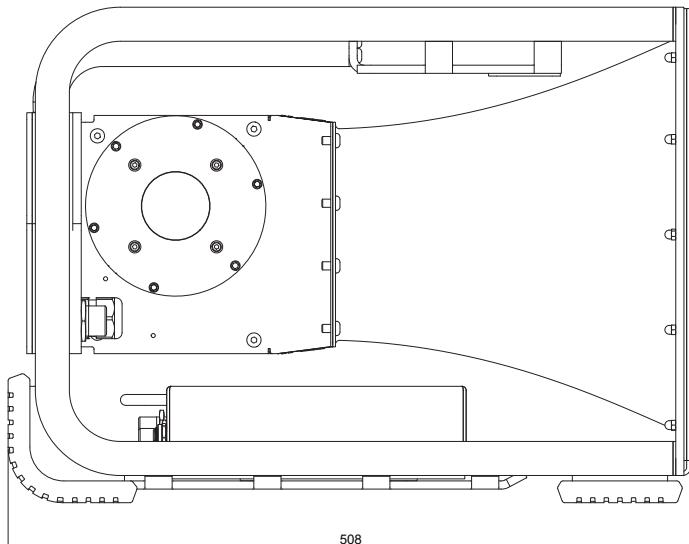
Physical

Dimensions:	297 x 364 x 508mm (wxhxw)
Weight:	16.2kg 18.3kg including 200Wh LiFePo4 battery pack
Materials:	Marine grade aluminium frame Molded fiber reinforced acoustic horn HD Polypropylene Grips Rubber feet
Lacquer:	ISO12944 C5 Dh powder paint
Colour:	Matte black Custom colors on demand

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Dimensions:



Included with the THD-150:

- CM2 microphone/control unit
- 100Wh LiFePO4 battery pack with built in charger for continuous operation
- Cables
- Universal mains battery charger (1 hour charging time / 100Wh battery)
- Rugged PP storage container

Options:

- Remote control interface
- STENTOR Keylock system compatible rugged pan and tilt stand fixture with 28mm standard spigot
- STENTOR Keylock system compatible lamp mount
- Front protection grille
- 100Wh LiFePO4 battery pack with built in charger
- 200Wh LiFePO4 battery pack with built in charger
- 300Wh LiFePO4 battery pack with built in charger
- High speed charger
- THD-150 may be customised to suit particular requirements

STENTOR® is a SUMMIT ENGINEERING NV brand.
STENTOR® reserves the right to change specifications without prior notice.

THD150 SPEC REV3

SUMMIT ENGINEERING NV

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