

# THD-146

## SELF CONTAINED HIGH POWER TRANSPORTABLE HAILING SYSTEM

THD-146 is a complete, self contained acoustic hailing system. It is the ideal workhorse for situations where perfect intelligibility, high acoustic output and quick deployment are important. The compact, open tubular frame makes it easy to handle and attach to any hardware. It provides the unit with a solid base without the use of complex accessories like tripods or mounting frames. The integrated keyhole mounting surfaces make it easy and quick to attach the battery pack and extra hardware accessories.



### Key Features:

- ▶ High acoustic output: > 146db @ 1m
- ▶ Highly efficient 2KWp classD power amplifier
- ▶ Compact interleaved high power supply converter
- ▶ Innovative driver protection for maximum system efficacy
- ▶ Long transmission range
- ▶ Directional acoustic beam with minimal side lobe energy
- ▶ Perfect intelligibility: STI > 0.85
- ▶ Professional military grade connectors and cabling
- ▶ All inputs fully protected against overvoltage and misuse
- ▶ Easily swappable battery pack
- ▶ Low power consumption
- ▶ Built-in charger with wide input voltage range
- ▶ 2 Double sided keyhole mounting surfaces
- ▶ CM1 holder in upper keyhole surface
- ▶ Robust marine grade aluminium frame
- ▶ Heavy rubber feet for impact protection
- ▶ Compact: 295 x 354 x 470 mm
- ▶ Ergonomic weight: < 14kg

### Application fields:

- ▶ Fire brigades
- ▶ Crowd control
- ▶ Rescue workers
- ▶ Industry
- ▶ Bird Control
- ▶ Military
- ▶ Border control

## Specifications

### Acoustic and Electronic

Sound Pressure Level (SPL):	146 dB @ 1m A-weighted.
Frequency response:	250 Hz to 10,000 Hz.
Communication range:	>650m over 88dB background noise >1km in rural environment
Beam width :	+/-15° @ 2kHz, -6dB
Internal power amplifier:	2Kw peak. High efficiency classD
Power supply:	Polyphase interleaved high power boost converter
Driver:	Customised annular ring radiator
Driver protection:	Real time temperature control and low frequency excursion limiter
Audio input:	Analog high CMRR balanced 1VRMS sensitivity for nominal output @1kHz
Control:	CAN based network with paralleled hardware backup

### Power

Power Input:	10V-32VDC, 24VDC nominal 10A long term average / 92Ap @ 24V
Power input protection:	Over/under voltage Polarity inversion 24V load dump acc ISO7637-2
Autonomy:	Loud speech (1/16 avg power): 4 hours Alarm (1/4 avg power): 1 hour

### Environmental

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

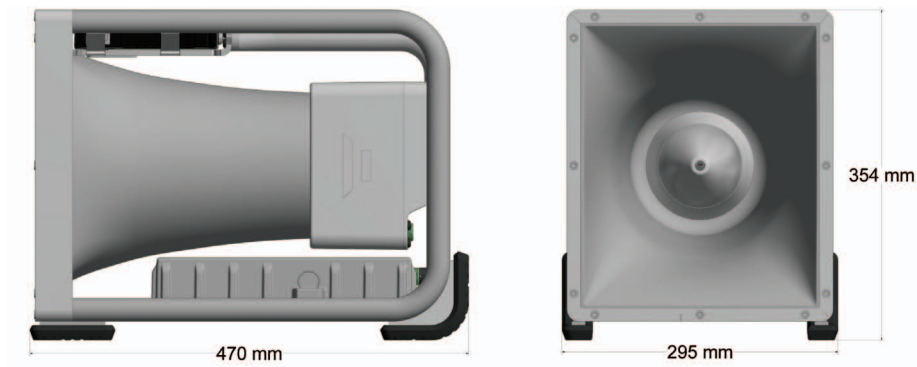
### Physical

Dimensions:	295 x 354 x 470mm (wxhxd)
Weight:	10.8kg 13.3kg including 250Wh battery pack
Materials:	Marine grade aluminium frame. Custom formulation polypropylene horn and grip.
Lacquer:	ISO12944 C5 Dh paint system
Colour:	Matte black Custom colors on demand.

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### Dimensions:



### Included with the THD-146:

- ▶ CM1 microphone/control unit
- ▶ 250Wh LiFePO4 battery pack
- ▶ CM1 heavy duty spiral cable
- ▶ Battery heavy duty cable
- ▶ Universal mains battery charger (4 hour charging time - 60W)
- ▶ Rugged PP storage container

### Options:

- ▶ Pan and tilt stand fixture for bottom keylock bay attachment with 28mm standard spigot
- ▶ Front protection grille
- ▶ Extra battery pack
- ▶ High speed charger (1 hour charging time - 250W)
- ▶ THD-146 may be customised to suit particular requirements.

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