

# THD-152

## SELF CONTAINED ULTRA-HIGH POWER TRANSPORTABLE HAILING SYSTEM

THD-152 is a complete, self contained acoustic hailing system. Based on the THD-146 components, it profits from the optimal coupling between the closely positioned horns to generate extreme acoustic output for clear highly intelligible voice communication over long distances. Its open compact frame make it easily transportable and quick to deploy in any situation. The THD-152 can be attached to any kind of hardware without the use of complex accessories like tripods or mounting frames. Three integrated keyhole mounting surfaces make it easy and quick to attach the battery pack and extra hardware accessories.

### Key Features:

- ▶ High acoustic output: > 152db @ 1m
- ▶ Two highly efficient 2KWp classD power amplifiers
- ▶ Two compact interleaved high power supply converters
- ▶ Innovative driver protection for maximum system efficacy
- ▶ Long transmission range
- ▶ Directional acoustic beam with minimal side lobe energy
- ▶ Perfect intelligibility: STI > 0.88
- ▶ 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 allows charging of the battery while in use for continuous operation
- ▶ 3 Double sided keyhole mounting surfaces
- ▶ CM1 holder in upper keyhole surface
- ▶ Robust marine grade aluminium frame
- ▶ Heavy rubber feet for impact protection
- ▶ Compact: 345 x 597 x 470 mm
- ▶ Ergonomic weight: < 23kg

### Application fields:

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



## Specifications

### Acoustic and Electronic

Sound Pressure Level (SPL):	152 dB @ 1m A-weighted.
Frequency response:	230Hz - 10kHz, ±3dB.
Communication range:	>1km over 88dB background noise
Beam width :	+18° @ 2kHz, -6dB
Internal power amplifier:	Two 2Kw peak. High efficiency class D
Power supplies:	Two polyphase interleaved high power boost converters
Drivers:	Customised annular ring radiators
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 20A long term average
Power input protection:	Over/under voltage Polarity inversion 24V load dump acc ISO7637-2
Autonomy:	Loud speech (1/16 avg power): 2 hours Alarm (1/4 avg power): 0.5 hour

### Environmental

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

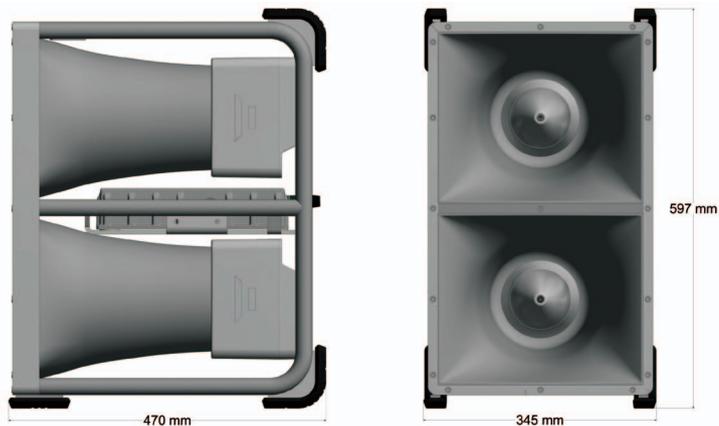
### Physical

Dimensions:	345 x 597 x 470mm (wxhxd)
Weight:	19.2kg 22.5kg including 250Wh battery pack
Materials:	Marine grade aluminium frame. Custom formulation polypropylene horns and grip.
Lacquer:	ISO12944 C5 Dh paint system
Colour:	Matte black Custom colors on demand.

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### Dimensions:



### Included with the THD-152:

- 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:

- Rugged pan and tilt stand fixture with 28mm standard spigot
- Front protection grille
- Extra battery pack
- High speed charger (1 hour charging time - 250W)
- THD-152 may be customised to suit particular requirements.



THD-152 mounted on optional pan/tilt fixture

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