INTEGRATED REMOTE MONITORING

PRODUCT BROCHURE



REGISTERED ON NATO LOGISTICS DATABASE (NMCRL)

NOW AVAILABLE THROUGH IRM

THUNDER TONE · PORTABLE WARNING SYSTEM

Risks move. Your warnings should too.

A complete siren and PA station on a forklift-ready base. Fly it or truck it in, set it down where people need to hear, and it's sounding within 30 minutes.

30 min
From unloading to sounding

732 m
Warning radius at 70 dBC (FEMA method)

7 days
On battery with no sun

100 km/h
Wind gusts it's built to handle

Goes where the risk is

Flood, fire, a site emergency or a threat: put the warning right where it's needed, then pack it down and move it as things change.

Heard when it matters

Up to 1,000 W through a Whelen speaker array. Sirens, stored voice messages or live PA, loud and clear.

Secure and in control

AES-256 encrypted voice and data. One command unit runs several dispersed sirens at once.

Fixed sirens stay put. Emergencies don't.

Floodwater finds new roads, fires change direction and threats don't wait for a siren to be installed. Thunder Tone is a complete mass-notification station on a forklift-ready base, delivering sirens, pre-recorded alerts and live PA wherever people need to hear them.



What's in the system

The siren (PRDS)

Portable Rapid Deployment System. Pneumatic mast, Whelen speaker array, deep-cycle batteries and solar charging on one self-contained, forklift-ready base.

The command unit (PCCU)

Portable Command Control Unit. A rugged 19-inch rack system with touch-panel PC that controls multiple dispersed sirens at once.

The remote (RCU, optional)

Remote Control Unit. A compact, battery-powered field unit for triggering a siren from anywhere within radio range.

Ready to move, quick to deploy

Transport	Unload	Level	Raise	Sound
By aircraft or truck	Forklift into position	Legs out, locked and levelled	Pneumatic mast to about 7 m	Operational within 30 minutes

Stands firm anywhere

- **Wide support footprint** — Stable on uneven surfaces and varied ground cover
- **Integrated levelling system** — Level the unit wherever it's set down
- **Lockable, adjustable legs** — Adjust to the ground, then lock in place
- **Strong speaker-support structure** — Holds the array steady at full height
- **Dust seals on moving parts** — Keeps grit out in harsh conditions
- **Integrated transport brackets** — Components secured while on the move

Built for tough conditions

Tested across varied terrain and weather. The Whelen speaker assembly, engineered in the USA, has a low coefficient of drag, and solar panels keep high-power, deep-discharge batteries charged in remote, infrastructure-limited locations.

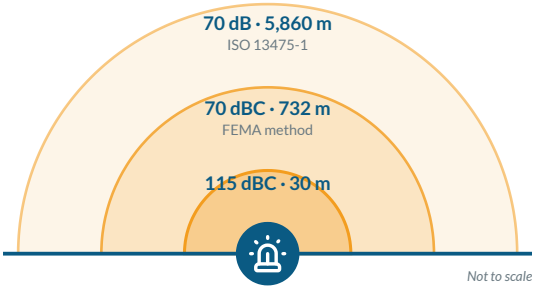
100 km/h	−20 to 50 °C	7 days
Wind-gust resistance	Battery operating range	Without sunlight

- Solar battery charging
- Slide-out battery tray for safe access and servicing
- Wiring protected and enclosed in ducting
- Electrical installation compliant with AS/NZS 3000

Loud, clear and locked down.

Up to 1,000 W through a Whelen speaker array, with every voice and data link encrypted. Your warnings get through, protected from interference and cyber-attack.

How far it's heard



165 dBC at 1 m. FEMA range based on the sound-pressure reduction methodology referenced in FEMA guidance.

Secure, coordinated control

Encrypted
AES-256 secured voice and data transmission

Adaptable
Fit-for-purpose pre-recorded alerts, plus live PA

Coordinated
One PCCU controls multiple dispersed sirens at once

Connected
VHF/UHF radio, Starlink or single-mode fibre









Make it fit the mission

Remote Control Unit (RCU)

Activate a siren from anywhere within the system's communication range. Compact and portable, in a robust field case with its own sealed lead-acid battery, so it's quick to deploy in the field.

AI-enabled surveillance

An integrated AI camera at the top of the mast gives elevated, 360-degree surveillance for:

- Intruder detection
- Drone detection
- Fire detection
- Road and runway debris
- Hemispherical observation
- Custom applications

Where it's used

- Flood and dam warnings
- Mine sites and industry
- Airfields and defence
- Bushfire and severe weather
- Events and temporary works
- Remote and off-grid sites

Technical specifications

Dimensions and weight

Height, collapsed	2,400 mm (94.5 in)
Height, extended	6,950 mm (273.6 in)
Length × width	1,120 × 1,120 mm (44.1 × 44.1 in)
Length / width, legs extended	3.94 m (12.9 ft)
Footprint, legs extended	7.8 m² (84.0 sq ft)
Footprint, legs retracted	1.25 m² (13.5 sq ft)
Weight	Approx. 500 kg (1,102 lb)

Environmental

Operating temperature	−35 °C to +60 °C (−31 °F to +140 °F)
Storage temperature	−10 °C to +60 °C (+14 °F to +140 °F)
Battery operating temperature	−20 °C to +50 °C
Humidity	0 to 95%, non-condensing
Wind speed	Up to 28 m/s (100 km/h)

Acoustic performance

SPL at 1 m	165 dBC
SPL at 30 m	115 dBC
70 dB range, ISO 13475-1	5,860 m
70 dB range, FEMA method	732 m
Speaker array	Whelen, engineered in the USA

Power and electrical

Batteries	2 × 12 V AGM SLA deep-cycle, 105 Ah
Charging	Solar, plus mains battery charger
Battery charger input	90–264 VAC, 47–63 Hz (4.5 A @ 115 VAC, 2.2 A @ 240 VAC)
Battery charger output	21–42 V, max 13.5 A @ 25 °C
Standby current	380 mA @ 24 VDC (typical)
Operating current	45 A @ 24 VDC (typical)
Output power per driver	400 W typical, 500 W max
Total output power	800 W typical, 1,000 W max
Electrical installation	Compliant with AS/NZS 3000

Communications (TCP/IP)

VHF/UHF radio, data	AES-256 encrypted
VHF/UHF radio, voice	AES-256 encrypted
Starlink	As per Starlink service plan
Fibre optic cable	Single mode

Command units

Portable Command Control Unit (PCCU)	19-inch rack system with touch-panel PC, communications to suit the PRDS, battery backup and charger, in a rugged field case
19-inch rack-mount system	As for the PCCU, installed in a 19-inch PC/server rack
Remote Control Unit (RCU)	Optional. Compact field case with sealed lead-acid battery

Defence logistics: the PRDS and PCCU are registered on the NATO Master Catalogue of References for Logistics (NMCRL). Stock numbers, PCCU documentation and full technical data are available on request. Specifications are typical and may change without notice.

Talk to us about Thunder Tone

Pricing, availability and a hand with the rest. We can help with site planning, radio path checks, delivery, set-up, commissioning and operator training.

Call 0408 255 779

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Pre-Qualified Supplier localbuy

Local Buy pre-qualified supplier (LB312)
Floodplain Management Australia member
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Operating since 2018