

Gunfire Locator

Detecting the threat...protecting our forces.



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Ultra's Gunfire Locator is a compact, lightweight unit that detects and localises the source of incoming high velocity small-to-medium calibre rounds. In response to the incoming fire, it rapidly provides users with accurate target data for a more effective response...

- neutralising the threat
- saving lives

www.ultra-gunfirelocator.com



The Gunfire Locator sensor uses patented, frequency domain signal processing on characteristic acoustic signals to determine the range, bearing and elevation to the source of hostile gunfire. An advanced algorithm isolates the fire position in the complex battlefield environment and minimises false alarms. Target data is intuitively displayed on the screen and using an inertial compensation system, it is continually updated to track rifle movement. The process culminates with the display and rifle pointing directly at the target.

The Rifle Mounted Gunfire Locator (RMGL) system includes:-

- a modular design, compatible with infantry type weapons and easily integrated with the soldier as a system:
 - attached via a Picatinny rail
 - rapidly attached/detached
- fully self-contained, with no risk of entanglement from cables, wires or cords
- lightweight and rugged
- simple to operate with just two buttons and a basic menu system
- intuitive display that cues the rifle to the target for the quickest response to hostile fire
- NVG compatible display
- all weather operation
- audio target functionality to support the display
- power provided by two AA cells
- qualified to MIL-STD-810F



Technical specification

- proven effective against direct fire from including 5.56mm, 7.62mm (short), 7.62mm (long) and 12.7mm infantry weapons
- nominal accuracy +/- 5° in azimuth and elevation and 15% in range
- greater than 90% probability of correct detection and localisation
- miniaturised 3 axis inertial tracking system for continuous movement compensation
- detection range of 30m to 1200m
- robust to false alarms and outgoing friendly fire
- 160 x 128 pixel OLED display, 29mm x 23mm active size with adjustable brightness
- target position updated ten times a second for seamless display motion
- water proof
- weight 450g
- 7 hour battery life

HMI design

- on/off
- clock face pointer for coarse alignment with the target
- cross hairs for fine tuning in azimuth and elevation when coarse alignment reaches twelve o'clock
- number of events detected (bottom left)
- range to target (bottom right)
- battery indicator (top right)
- simple menu for rapid set-up
 - self-test
 - display brightness
 - max range
 - min range
- status screen and menu system displayed on command

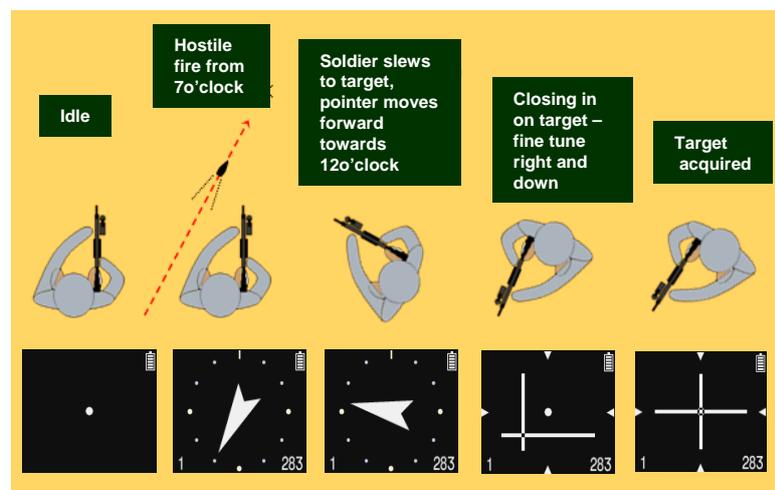


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