



## LRL – Long Range Locator

A Superior state of the art pocket size secured unique ID Spatial Awareness Location Transmitter.

The “no matter where you are” remotely Controlled “real time” location Monitoring, makes it optimal for use even under duress and extreme environmental situations.

Up to 40 miles range under urban & harsh environment while using an independent robust radio network.

Aimed for search and rescue teams, high value equipment location marker, Home Land Security and many others.





## Long Range Locator - Rugged Personal C&M Unit

The **LRL** miniature Location Transmitter, is capable of working indoors and under harsh environment, local (self initiated) and remote (control & monitor) activated.

### LRL Features:

- **GPS Receiver**
- extremely sensitive (indoor reception) GPS receiver
- high immunity to jamming
- Integrated MEMS INS Dead Reckoning Navigation option
- **RADIO transceiver**
- Secured Network Capability (unique ID network members only)
- Data encryption
- transmission immunity
- extended range, Urban & LOS
- **POWER Handling**
- Smart power saving modes
- long lasting rechargeable battery

### Interface & Control

- Power On/Off – Panic Button
- Operation and state Indication LED
- Standard USB interface

### Command & Monitor

- One unit does it all
- SW configured End unit / C&M unit
- Any PC can Host (LRL + Laptop)

### Optional and additional features

- External sensor connection
- Docking station and mounting options
- Extended longer battery life
- Audio & Video transmission
- Local Location & Heading Display





# Long Range Locator - Technical Specifications

## • GPS Receiver

- Very high sensitivity (indoor reception) GPS receiver
- Dead Reckoning MEMS INS Navigation option ( drift = 2% of distance )
- Time To First Fix < 1s (open sky hot start)
- Tracking & Acquisition sensitivity better than -160dBm

## • RADIO transceiver

- Secured unique ID Mesh Network Capability
- More than 65000 unique ID network addresses
- transmission immunity – FHSS Spread Spectrum
- transmission reliability - Retries & Acknowledgments
- extended range, Urban & LOS scenario support
- Receiver sensitivity -110dBm (@9600 baud)
- Maximal baud rate – more than 115000bps
- Data encryption – 256 AES
- Variable Transmit Power 1mW-1W

## • POWER Handling

- Smart power saving protocol
- long lasting LiPo battery (3400 mAh)

## • Size and Weight

- Total Weight – 180gr
- Dimensions – 81x 53 x 25 [mm]

## • Convenient Interface & Control Features

- Power On/Off – Panic Button
- Operation and Battery state Indication LED
- Standard USB interface

## • Environmental - Designed to meet

- Environmental according to MIL-STD 810 F
- RFI/EMI according to MIL-STD 461 E





## LRL C&M - Command and Monitor Application

The **LRL Command & Monitor** application enables the user to be aware of the units spread in the field of action in terms of: Exact Location, Unique personal ID title and name, heading and movement, detection of distress.

In addition of the visibility capability, a list of remotely controlled command set makes it easy to handle the situation and the involved personal in the area.

The application is ready to be installed on any Laptop, PC or other users mobile computer running Win XP / Win Vista OS, the connection to the Local command unit is done by a standard USB connection.

