



**L3HARRIS™**  
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# RO®-MOBILE AWARENESS PLATFORM (RO-MAP)







The RO-MAP is a software application that runs on a personal data assistant (PDA) or smartphone and provides vital situational awareness (SA) information quickly and reliably. It utilizes the functionality of a PDA along with the beyond line-of-sight (BLOS) capability of the RO tactical radio to provide a common operating picture (COP).

Not only can the RO-MAP obtain position location information (PLI), text messages and reports from other RO tactical radio users, it can also be used as a remote control device for the RO tactical radio. All commonly used functions of the radio can be controlled and monitored including speaker volume and networks assigned.

The PDA connects to the RO tactical radio through the 6-pin RS-232 data/audio port. When connected, the RO tactical radio

is configured to operate in data collector mode. This feature provides position awareness of all RO tactical radios within 100-250 miles that are on the same network. The position location information is then graphically displayed on the RO-MAP situational awareness application. The RO tactical radio transmits location based on time, distance or when the push-to-talk switch is depressed.



The RO-MAP uses a rugged PDA and the RO tactical radio to provide friendly force tracking (FFT), text messaging and RO tactical radio remote control.

### MAPPING

- > Map pan and zoom capability
- > Map centering on any position
- > PLI 'drill down' for detailed information
  - Call sign (IMEI/Alias)
  - Group (Net #)
  - GPS Msg ID, GPS data, GPS UTC
  - Latitude
  - Longitude
  - Altitude
  - Accuracy
  - Speed
  - Climb
  - Grid zone
  - Grid position
  - Bearing

### MESSAGING AND REPORTS

- > Text message alerts
- > Message storage
- > Chat area for broadcast messaging
- > Send and receive common reports
- > Broadcast or point-to-point addressing

### RO TACTICAL RADIO REMOTE CONTROL

- > Talker mode active indicator
- > Listener mode active indicator
- > Registration status indicator
- > Signal strength indicator
- > Battery level indicator
- > Active net selection and identification
- > Secondary net selection and identification
- > Volume level
- > LED level

### RO-MAP CONFIGURATION KIT

The RO-MAP configuration kit is a pre-loaded laptop with software to generate map data for the RO-MAP.

- > Map position identification naming so that identified positions can be sent to other units
- > Dialog boxes copied to the clipboard for easy texting



### SPECIFICATIONS

RUGGED PDA	
Processor	Intel® XScale® PXA270, 520 MHz
Operating System	Microsoft® Windows Mobile® version 6.X, stored in non-volatile, secure, Flash
Memory (RAM)	128 MB low-power RAM
Display	High contrast, color 3.5 in diagonal (89 mm) 1/4 VGA backlit LCD, readable in direct sunlight
Touchscreen	Sealed, resistive, pressure sensitive, convenient on board stylus storage
Size	6.5 in long x 3.5 in wide x 1.7 in deep (165 mm long x 89 mm wide x 43 mm deep)
Weight	17 ounces (482 grams)
Case	Magnesium with elastomer overmold
Keyboard	LED backlit keys including a four-way directional button
Environmental	MIL-STD-810G: water, humidity, sand and dust, vibration, altitude, temperature, IP67
Shockproof	Multiple drops from 5 ft (1.5 m) onto concrete
Power	Operates for more than 20 hours on one charge
	Battery easily changed in the field without tools
	Power off mode extends battery during long periods of inactivity

The RO-MAP software can also run on other devices and operating systems  
 \*RO-MAP specifications are subject to change

### FEATURES

- > Single software application that allows for rapid switching between mapping, text messaging and RO remote control
- > Display of current position as well as the positions of other RO tactical radios within range
- > Precise MGRS grid and heading information
- > 100-250 mile (160.9-402.3 km) range
- > Operation in low power blackout mode
- > Text messaging by simply selecting positions on the map
- > Over-the-shoulder remote RO tactical radio control
- > Sending and receiving standard reports such as situational reports (SITREPS) and position reports (POSREPS)
- > Encrypted data communications and storage

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RO-MAP

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