Kirmuss & Associates
Infinity Advanced Technologies
Technical Applications Notes

GPS MIC APPLICATIONS

The GPS MIC (referred to as the GPS LCD MiiC (Mobile Intelligent Information Console)) when connected to most any two way radio with the appropriate accessory cable may provide Users in the field with increased situational awareness by way of Users interfacing with the built-in LCD display of this speaker-microphone accessory.

Additionally and when connected to a PC using the USB cable (or a P25 radio connected to a PC direct), Users with laptops, PDA's or PC's in the field or at a base station may also interact with the GPS console receiving location and tracks over laid onto a variety of available, off the shelf, software packages

Some benefits and applications of the GPS MiiC are as follows:

1) Waypoint function:

A. For Wildland Fire Applications: Users in the field may mark and annotate locations of resources such as: access to streams and sources of water, hazards, areas where hot spots were extinguished, location of base camp, etc..

Waypoints received generated either by other field GPS MiiC units or from incident command may show: Location of staging, base camp, helipad, next area to travel to, hot spots areas to travel to, water sources, location of other field teams, etc..

B. For Search and Rescue Teams: Field members may mark areas where evidence or a piece of clothing has been located and applying a name or description, send this or damage assessments of buildings affected or destroyed by tornadoes and hurricanes, send locations identified of potential survivors trapped, send location of point of entry into a damaged building, etc..

View all locations for all team members in real time and areas covered maximizing search efforts and to better manage resources. Avoid sending search teams into areas previously covered.

Increase accountability, safety and status of teams.

Set a course to a previously stored or received waypoint. Waypoints may be preset and stored in the GPS MiiC unit's memory for future reference before a User leaving for a mission of the area is one that is frequently entered into..

2) Group List:

A. Locate team member last received location, speed, direction, elevation, heading.
B. Update the last known and received position. (poll a field unit)
C. Set a course to the last position received.
D. See the course travelled by a particular field unit in relation to the receiving party or system user.

3) Text Messaging:

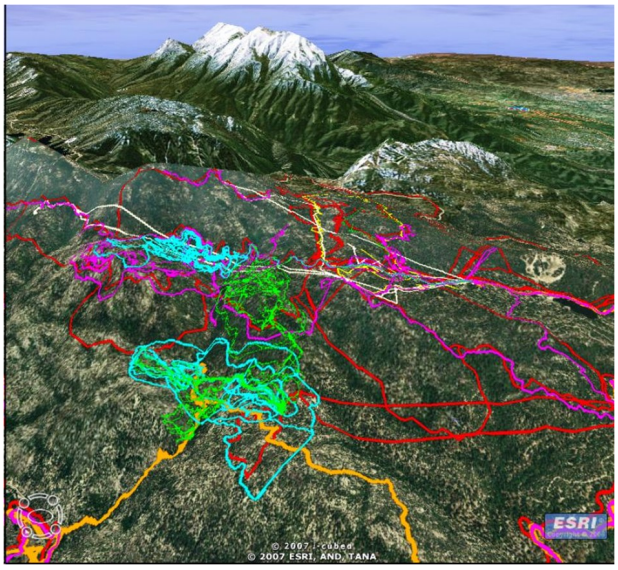
Send and receive sensitive information to all or select users.

4) Tracks: With or without connection to a two way radio transceiver the GPS MiiC console stores all track information. This allows one to playback using a USB connection all travel areas and full details of travel by the User. (speed, average speed, lowest speed, highest speed, altitude, heading).

When using the PTT function or Polling function both field units or GIS software only receives and stores the User's real time locations as received. With a PC and thereby downloading all tracks stored by the GPS MiiC pone may review all areas covered using one of many GIS software packages. Excellent feature for after action reporting: reviewing all areas covered, searched, travelled to, or worked in. Invaluable for accountability and training as well as assessing the operational periods effectiveness. Aids in better planning of the next operational period.

Sample Pictures:

Download of tracks created after the 5th operational day of the Dean Christy Search, San Bernardino, Ca. (Photo Courtesy of San Bernardino Sherriff's Office)



Tracks reviewed from 5 SAR Teams, Second Operational Period, Windsor Tornado, Windsor, Colorado. (Photo Courtesy of Rampart Search and Rescue)

For More Information Contact:

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