Field CE GIS

Advanced GPS/GIS Data Collection for CE PDA
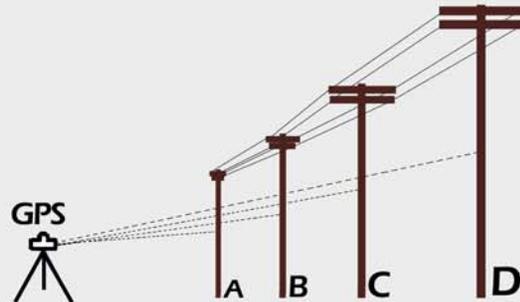
Field CE GIS Supports

- ▶ **Shapefiles**: importing and exporting
- ▶ **Image data** (Geotiff, MRSID® format, GeoJPEG, JPEG2000)
- ▶ Detailed, colorful **BaseMap background data**
- ▶ **Digital Elevation Models** (DEM) for contour lines
- ▶ **Wireless GPS** and other data collection
- ▶ Distance and **Area measurements** on the spot
- ▶ Interface with desktop GIS
- ▶ **Offset** points or **Traverse** points when GPS signal not available
- ▶ **Digitizing** features by freehand or by "snapping"
- ▶ Storage of GIS Feature, **Attribute**, and **Value** data
- ▶ Point/Line/Area symbol and pattern libraries as in PC-GPS
- ▶ **Coordinate system conversion** on the fly

Nested Points : A must-have powerful and time saving feature

Store Points along a Line or Area without "ending" the Line or Area Feature. For Example, map a road as a dynamic line, also record traffic signs along the road.

Radial Traverse : Multiple 'shots' can be made from one GPS location

FROM → TO	SL. DIST	AZIMUTH
GPS → A	120.00 ft.	41.30°
GPS → B	96.50 ft.	88.80°
GPS → C	87.00 ft.	132.00°
GPS → D	112.20 ft.	157.50°

Highlights

- ❖ Raster & Vector
- ❖ NEZ Plane Support
- ❖ **Offset & Traverse**
- ❖ **Nested Points**

- ❖ Instant Coordinate update
- ❖ **Length & Area Measurement**
- ❖ NMEA-183 & GPS raw data
- ❖ **Heads-Up Digitizing**

- ❖ Real-Time & Post-Process Differential
- ❖ LLA/UTM/SPC & User-Defined Coords.
- ❖ **Logging** Mode: **By time, By Distance**
- ❖ Professional Integrated GPS/GIS

Overview of the new Field CE GIS 05

▶ **Digital Elevation Model (DEM)** support to show contour lines on your BaseMap.

▶ Load imagery in **MRSID® format**, **GeoJPEG**, **Geotiff** format and clip irregular shapes and load them into Field CE GIS 05 to assist in navigation or digitizing.

▶ Implemented **Geoid 2003** model for accurate elevation information in the field.

▶ New user interface for **Traverse** function.

▶ Point/Line/Area patterns are the same as in PC-GPS. There are literally **thousands of patterns and symbols** available.

▶ **Intelligent GPS port** recognition.

▶ A **"free-hand" digitizing** capability has been added for digitizing line/area features.

▶ Improved interface for **navigation** and **auto-routing**. Navigation shows the road you are on, the next intersection, distance to the next turn and the turning direction.

▶ Digitizing Points, Lines and Areas now has the **"Snap to Node"** function.

▶ Get **area calculations** for areas that are formed by Line Features.

Original Field CE GIS Highlights

▶ Shapefiles and Geotiff image data support
▶ Detailed, **colorful BaseMap** background data
▶ Wireless GPS and other data collection
▶ **Distance** and **Area** measurements on the spot
▶ Interface with desktop GIS
▶ **Offset** points or **Traverse** points when GPS signal not available
▶ Images: load **aerial photos** or **topo** maps in the background
▶ Storage of GIS Feature, Attribute, and Value data
▶ Point/Line/Area symbol and pattern libraries
▶ Coordinate system conversion on the fly
▶ **Raster & Vector data formats supported**
▶ Nested Points function
▶ Instant Coordinate update
▶ **Length** & **Area** Measurement tools
▶ NMEA-183 & GPS raw data support
▶ **Heads-Up Digitizing** of point, line and area features
▶ Real-Time & Post Process Differential correction available
▶ LLA/UTM/SPC, **NEZ and User Defined Coordinate Systems supported**
▶ GPS Logging Modes: based on time or distance
▶ Professional Integrated GPS/GIS