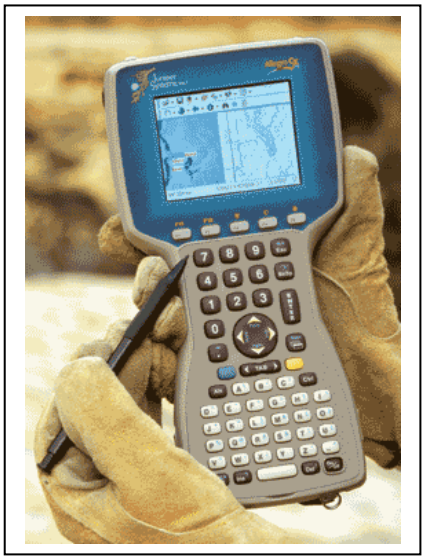
# HGIS® GPS Mapping Software

## HGIS® + SensorTrack Data Acquisition Software

Allows your Allegro Field PC™ to perform:

- GPS Mapping and Data Acquisition
- Grid Soil Sampling
- Crop and Weed Scouting
- Mapping of Crop Inputs
- Tile Line Mapping
- Mapping for Crop Insurance
- Laser Rangefinder Logging
- Irrigation Center Pivot Layouts
- Seamless Data Transfer with most GIS applications



*Sub-meter Trimble DGPS mapping system (shown here with optional backpack) provides better than 1 meter accuracy.*

StarPal™

The leader in

## Handheld Geographic Information Systems™

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Or call: 970-229-0560

## HGIS® GPS Mapping Software

- Available for Windows CE, 2000, 98, 95, ME, and NT
- Wizards for Soil Sampling, Boundary Mapping, Tile Line Mapping (or create custom Wizards)
- Define / Open / Save Map Layers
- Draw and Edit Layers, using GPS or manually
- Up to 250 Attributes per object
- Edit Attributes in the field (using Pick Lists or Keyboard)
- File types: SHP (ESRI ArcView and others), MIF (MapInfo and others), and DBF (for collecting 3D Points)
- Display JPG and BMP Images
- GPS - TSIP or NMEA0183 v2.0 or later (GPGGA or GPRMC) via Serial RS232 Interface
- Real-time Distance, Perimeter, and Area (English or Metric) displayed as you collect boundaries or lines
- Measure distances and bearings from current position or between points
- GPS Status - Course, Speed, Date, Time, Altitude, Number of Sats, HDOP, and Differential OK
- Trimble Remote Display for GPS that support AgRemote™
- Create Pick Lists and Templates in the office; reduces time spent in the field.
- Import databases with fieldnames and field operations
- Grid Soil Sampling - Square, Offset, Random, Honeycomb, Systematic Unaligned, (Orientatable and Stretchable)
- Navigation - Shows direction and distance to target (True or Relative bearing)
- Print Maps (not available on Windows CE)
- Coordinate Transform - WGS84, NAD83, NAD27, and >100 Regional Coordinate Systems (plus UTM)
- Collect and Plot Average Position (Benchmarks)
- Sunrise / Sunset, Compass Declination, Misc. Functions

### Object Types

- Point - Symbols (16), Color, Size, Label
- Line - Color, Style/Width (10), Label
- Boundary Region (Polygon) - Pattern Fill (40), Line Style (6)
- Circle - Draw circles of specified radius (exported as Polygon)
- Center Pivot Irrigation Circle (see SensorTrack section)
- Text (only available with MIF files)

### AutoDraw

- Points, Polylines, Field boundaries based upon distance, time, or external switch
- Automatic swath logging to record and show sprayer application areas
- Connect to Boom Spray Switch for Auto Start/Stop Swaths
- Auto Fill Attribute Fields - Area, Distance, Date, Time, Longitude, Latitude, Altitude, Speed, more…
- Unique Auto_ID number for each Sample Point or object created

## SensorTrack™ Data Acquisition System (includes HGIS® GPS Mapping Software)

- Log 3 data channels plus RS232 Sensor (uses second Serial Port)
- Each channel may record Frequency, Count, or On/Off
- Data is recorded to Text file along with (WGS84 Long. / Lat.)
- Upper frequency limit for counter channels is 1-2 kHz (up to 500 Hz for some Windows CE machines)
- Timing direct from GPS receiver or seconds (1-60)
- Log up to 10 GPS Fixes per Second (using 10Hz GPS)
- Log up to 30 Data Records per Second
- Layout Irrigation Center Pivot Circles (with or without end gun, or extensible corner arm)
- RS232 instruments that may be logged: GEONICS EM31, EM38, EM61, Laser Alignment Survey Mast, Laser Atlanta Range Finder, Spectrum Soil Compaction Meter, Minolta SPAD, Digital Multimeter, User Defined.

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