ArpentGIS

Mobile GIS and GPS solution for mapping

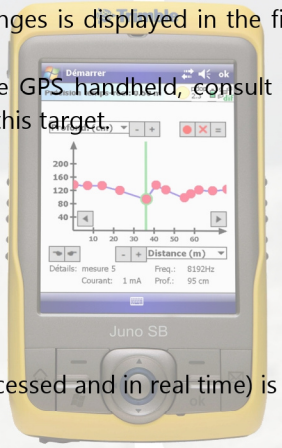
Localize GPS underground networks (electric networks, gas pipes, water pipes ...), measure depths, localize defects and record your measurements.

Based on the mobile GIS solution **ArpentGIS** and the pipe and cable detectors RD8000 from Radiodetection, this new solution will dramatically change the way you map your networks and localize defects (Cathodic Protection).

Very easy to use without any specific skills, the mobile GPS ArpentGIS solution combined to the sensor **RD 8000** is perfectly suitable for any network coating defects positioning, defects of isolating cables and all other cathodic protection mapping workflows.

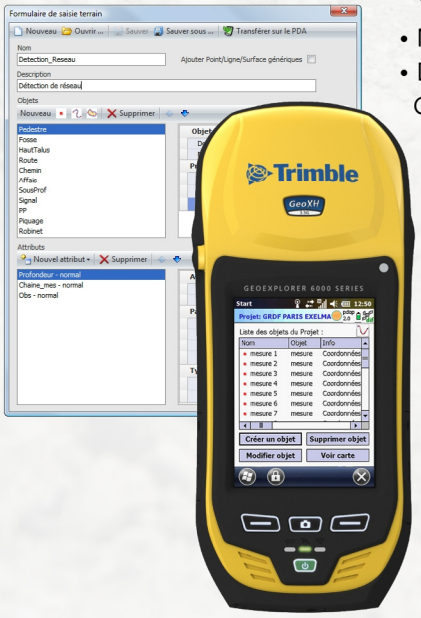
When measurements (depth and current values) are logged with the RD8000, the results are automatically recorded and geotagged (X, Y and Z values) by GPS. A graph showing the depth or current changes is displayed in the field while recording new data.

While measurements are done, it is of course possible to select a specific point on the GPS handheld, consult the results of this particular measurement and use the GPS navigation option to navigate to this target.

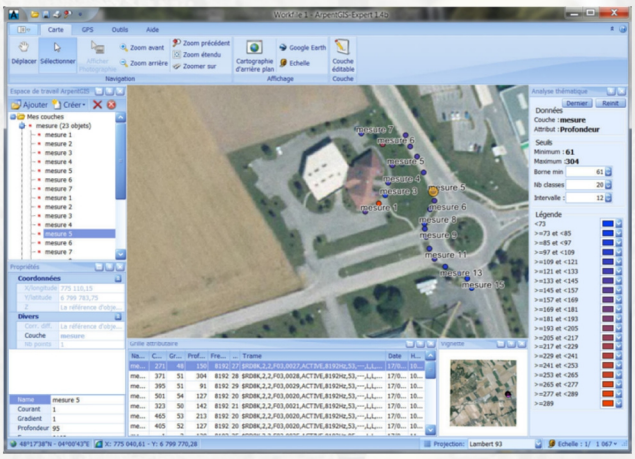


Key features :

- Accurate GPS positioning and auto log of depth and current measurements
- Real time graphic display
  - Depth / Distance or Time
  - Current / Distance or Time
- Real time GPS positioning (VRS networks, SBAS...) or post-processing positioning. Accuracy (post-processed and in real time) is displayed in the field on the handheld
- Sound alert option (meters interval) to help regular positioning
- Data collection of point (defects...), line or area features by using specific data dictionary files. Link photo capture and GIS features
- Map view to display measurements (custom scale, distance measurements...) and background files
- Navigation options (defects search...)
- Data transfer to the GIS Viewer ArpentGIS-Expert : auto-export to Google Earth or to any GIS/DAO software, data analysis...



Creation of custom data dictionary for network detection



Measurements analysis with ArpentGIS-Expert

D3E Electronique
Phone : +33 3 25 71 31 54 - Email : gps@d3e.fr - www.d3e.fr

ArpentGIS

Specifications

Specifications of ArpentGIS-Mobile

- Windows Mobile (5 and above) field software
- Bluetooth connection to RD8000 sensor or serial connection for RD4000 sensor
- Use of custom data dictionary for easy data collection in the filed (menu attributes, numeric attributes, photos capture...)
- Auto calculation of length and area measures for line and area features
- Partial or full offsets for line and area features
- Digitization (point, line or area features)

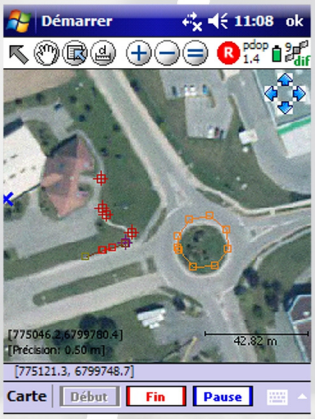
- Graph display :
  - Custom graphic to display Depth or Current / Distance or Time
  - View of data with a simple click on the graphic and navigation to selected target with compass or in the map view

- Map View :
  - Display in real time in the field of the collected data
  - Background files display (ECW files or SHP files (attributes))
  - Easy access to main options
  - Measurement and navigation tools

- Configuration :
  - GNSS settings : max PDOP , DGPS filter, GNSS configuration...
  - Global coordinate systems (latitude/longitude (WGS84) and UTM) and French local coordinate systems (Lambert NTF and RGF)
  - Custom units display

- Navigation :
  - Navigation available in the Map View or with Compass options (Direction, Speed, Distance left...) by clicking on the Map or by entering coordinates manually

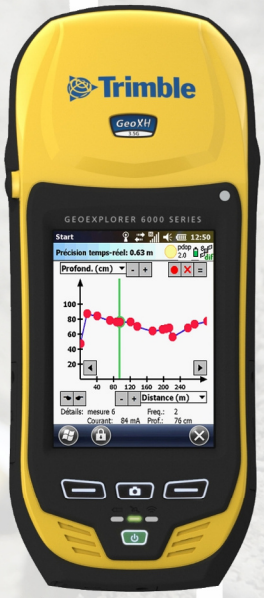
Main Menu of ArpentGIS-Mobile



Map View of ArpentGIS-Mobile

Specifications of ArpentGIS-Expert

- Transfer, display and analysis of data collected in the field with ArpentGIS-Mobile
- Creation and modification of data dictionary used with ArpentGIS-Mobile
- Vector file formats support : AGI, Shapefile (SHP), MIF, DXF (with or without blocks), CSV
- Background files format support : ECW, TIFF, JPEG, JPEG2000, MrSID
- Analysis data tool and symbology analysis display tool (custom steps, colors...)
- Measurement tools (lenght, area)
- Navigation and selection tools (zoom in/out, center, to the extents of a selected layer...)
- Auto-export to Google Earth et other GIS/DAO file formats : DXF (with or without blocks), SHP, MIF/MID, CSV, ASCII, WPT, TRK, JPEG (with world file)
- Post-processing of AGI files available with Trimble GPS Pathfinder Office Software (optional)



Trimble GeoExplorer 6000 Series

Configurations

Trimble Juno SB

Trimble NOMAD

YOUR LOCAL REPRESENTATIVE

WiFi CERTIFIED Bluetooth