

Professional

GPS receiver
+ **Cable locator**
+ DigiTerra
Explorer 6
Professional

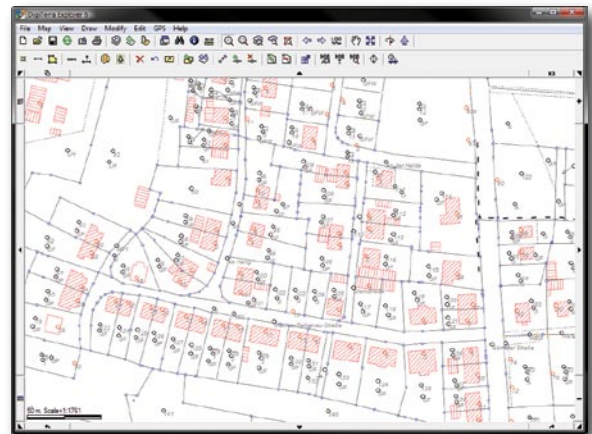


Efficient and simple utility management with GPS receiver and cable locator

As real estate density increases, underground constructions have nowadays become more complex. Locating pipelines and cables is more difficult than ever. Workflow has to be better coordinated and to security issues and deadlines have to be paid increased attention. In order to better take up these challenges, utilities construction can be supported by electronic equipments, GPS technology, and digital maps.

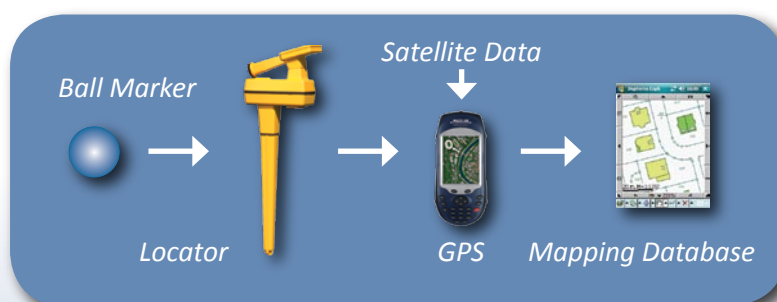
GPS technology with DigiTerra Explorer and a cable locator simplifies utility management

Connecting cable locators and markers complemented with GPS receivers and DigiTerra Explorer mobile GIS software is one of the most innovative technology that can increase efficiency in the construction and utility sector. Precise GPS mapping can replace traditional schematic maps that may be incomplete, inaccurate, and difficult to maintain. This effort can be done efficiently in conjunction with utility construction and maintenance activities. As a result, collected data support the preparation and continuous upgrading of infrastructure records.



Components of DigiTerra's comprehensive GIS solution

1. Cable locator system
2. GPS receiver with submeter accuracy
3. DigiTerra Explorer field data collection and mobile GIS software



Step 1: Placing the marker balls

As a new water or sewer line is placed, marker balls are placed along the pipeline and at each feature and change in the route, including pipe deflections, Ts, junctions and service points. By using a portable marker locator, important details will be programmed into the marker memory just before it goes into the ground; such as the pipe type and size, the year it was installed, fitting type, and depth below the surface.

Step 2: Finding the marker balls

Later, when a locator sends out a search signal, the buried marker responds with stored data, which is displayed on the locator panel. This underground utility marking process allows to remotely locate and identify facilities by means of buried markers and remote locators.



Reseller

Step 3: Connecting cable locator and GPS receiver

DigiTerra Explorer is compatible with 3M Dynatel M-iD, 1420-iD or Leica Digicat cable locators, that are connected to the GPS receiver running DigiTerra Explorer via cable or Bluetooth connection. Each time, when the cable locator identifies a marker, also the GPS position will be recorded.

Step 4: Integrated mobile mapping

By pushing a single button, GPS position and all information stored in the memory of the marker will be transferred to DigiTerra Explorer. You can immediately see all relevant geographical information along with the details stored in the marker on the digital map.

Benefits

Efficiency

With DigiTerra Explorer, you can locate cables, store information from the markers and update digital maps at the same time without returning again to the same place. As a result, you can **save up to 75% time** compared to traditional paper-based recording.

Flexibility

Besides handy features, you can also benefit from the flexibility of DigiTerra Explorer: when recording the information stored in the marker, you can **directly save the map layers in standard ESRI Shape or Mapinfo MIF file formats**. When using a background map prepared in your CAD system, you can **directly load it in Autodesk DXF format**.

Integration

At the end of the day, map layers and attributes can be downloaded from the handheld PDA to the desktop version of DigiTerra Explorer for further analysis or can be added to an existing GIS database. By doing so, marker data will become part of a comprehensive and integrated GIS solution.

Contact



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