

Opera Duo

a first class underground survey



Competitive advantages



Designed around you

A large, comfortable handle to make pushing or pulling easier, large wheels for better control and a balanced weight distribution to offer the minimum resistance



Robustness

Engineered and built to withstand the harshest field conditions, the Opera Duo is suitable for heavy use in every type of terrain.



Easy to use

Opera Duo uses an intuitive interface. Just click the start button to receive the best performance in every soil condition. There is no longer need to perform calibration or adjust any other manual settings.



Result delivered on site

IDS's proprietary solution tracks the position of the radar and marks targets automatically. All the acquired data can be exported to CAD and report can be produced directly on site.

Hardware

2 version available



2 wheels



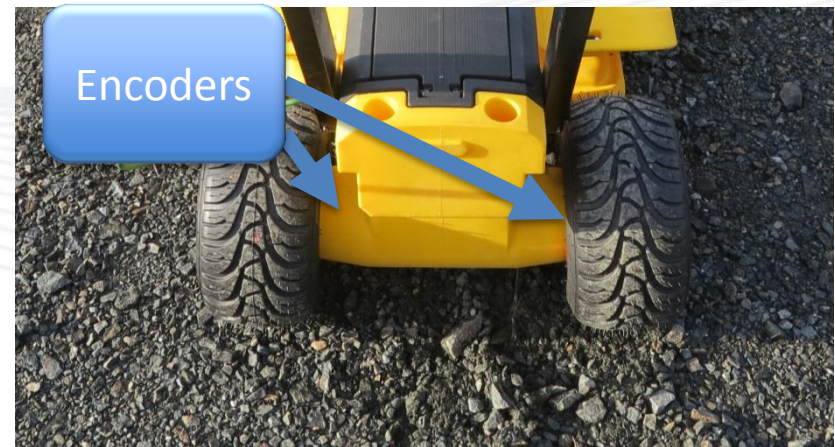
4 wheels

Opera Duo HW Features



Hardware features

All the parts are integrated in the main body of the products including a dual frequency 250-700 MHz antenna, a 400 KHz control unit, a battery and two encoders.



Pivoting head

The head of the Opera Duo can rotate along a longitudinal axis in order to let the antenna be always in contact with the ground in any soil condition.



Accessories

Spray marker kit:

Remote controlled spray paint marker kit to mark pipes and targets with the minimum effort.

A button in the interface regulate the spray.

The kit can be mount in 10 seconds.



Accessories

GPS mounting kit:

Aluminum kit to hold a GPS pole.
Connection with the PC is available
through bluetooth or Serial ports.



Acquisition Software

Opera Duo SW Features

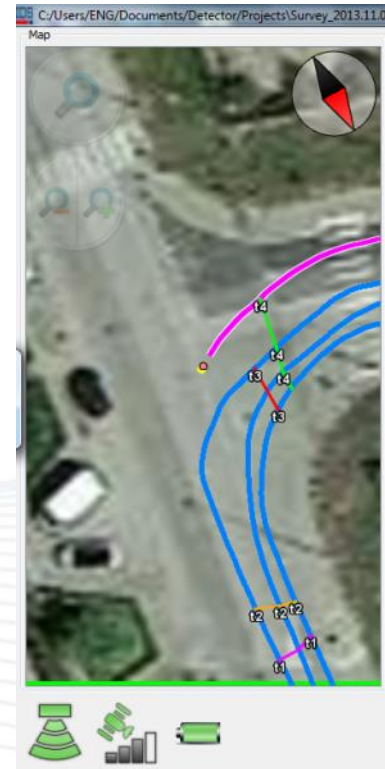
- Smart graphic layout optimized for touchscreens
- Real time estimation of propagation velocity
- Advanced troubleshooting
- Advanced Positioning management
- Digital map exportation
- Report done on site

Map Panel

Map importation and GPS for positioning management

The user can import map in several format, or if connected with the internet, can download in real time the map of the area.

If GPS is used the navigation interface will show the current position of the radar, the path trajectory and the targets inserted.



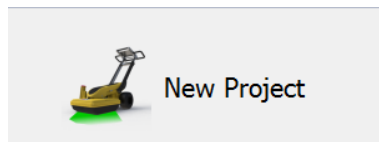
Google map importation through internet

Opera Duo Map Panel with GPS

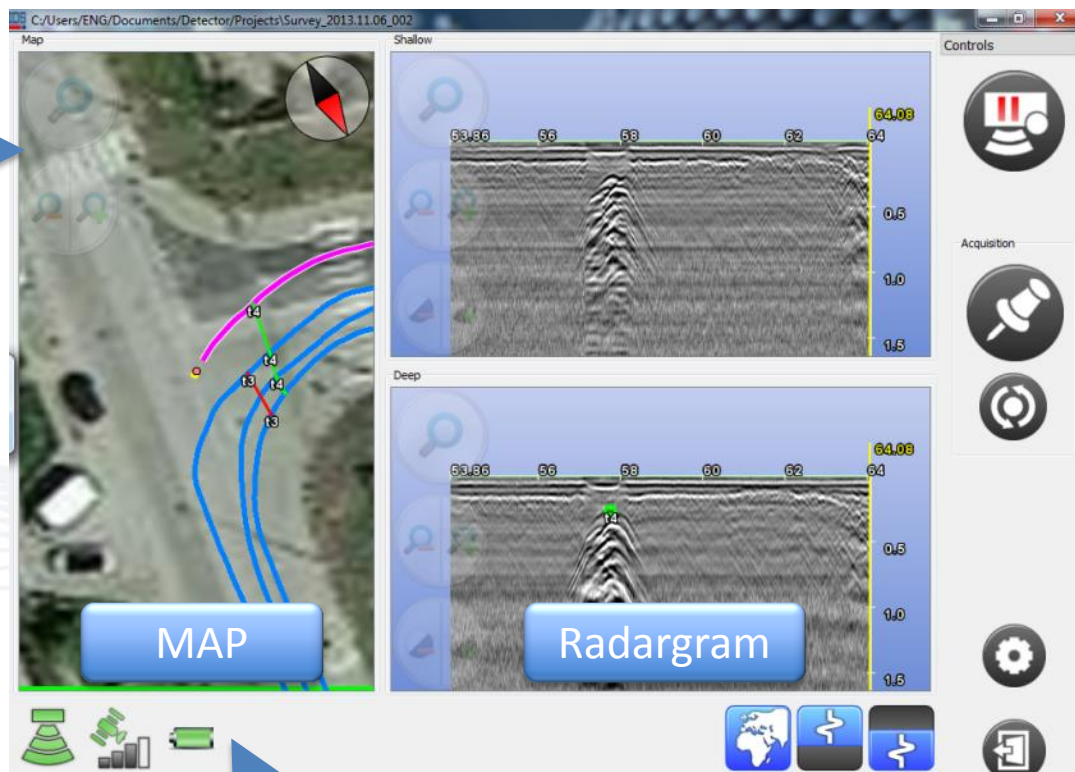


HD aerial map and GPS

“New project” acquisition



Few seconds are necessary to acquire data with **New Project** modality. A map will help the user geo-locating the acquisition.



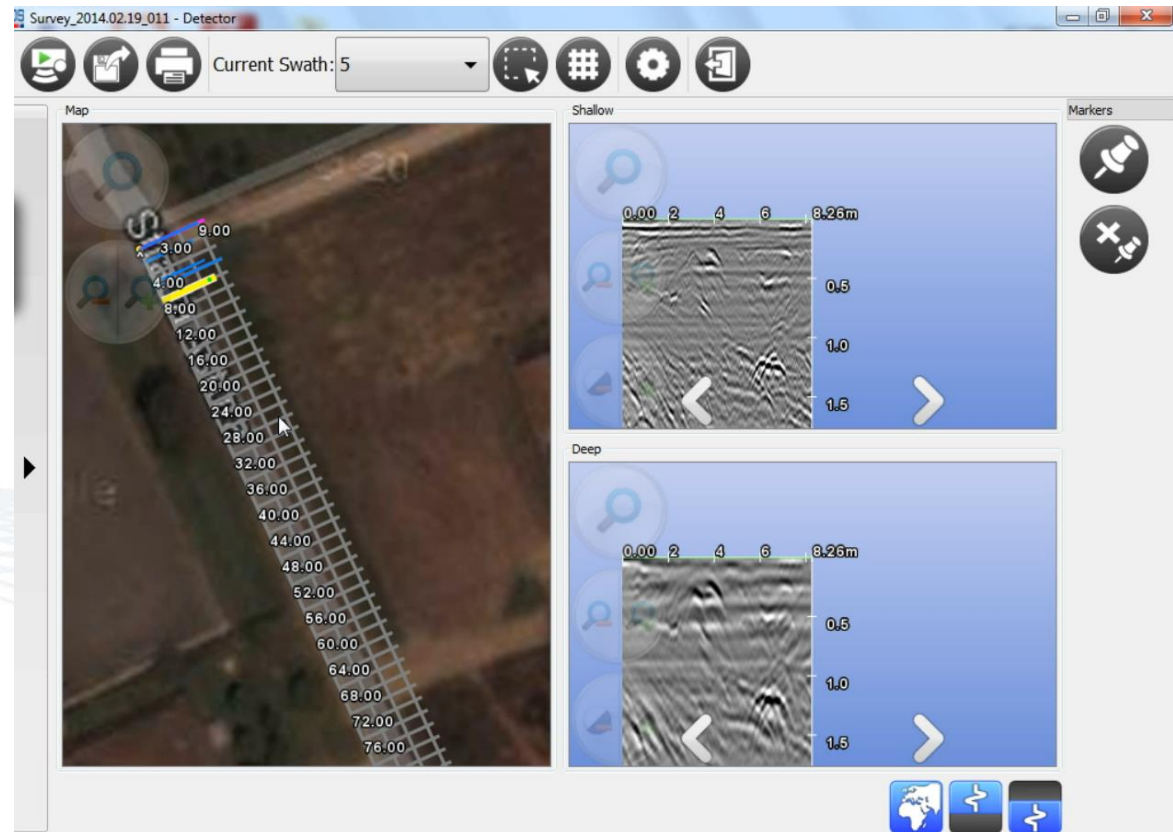
troubleshooting

“New assisted Project” acquisition

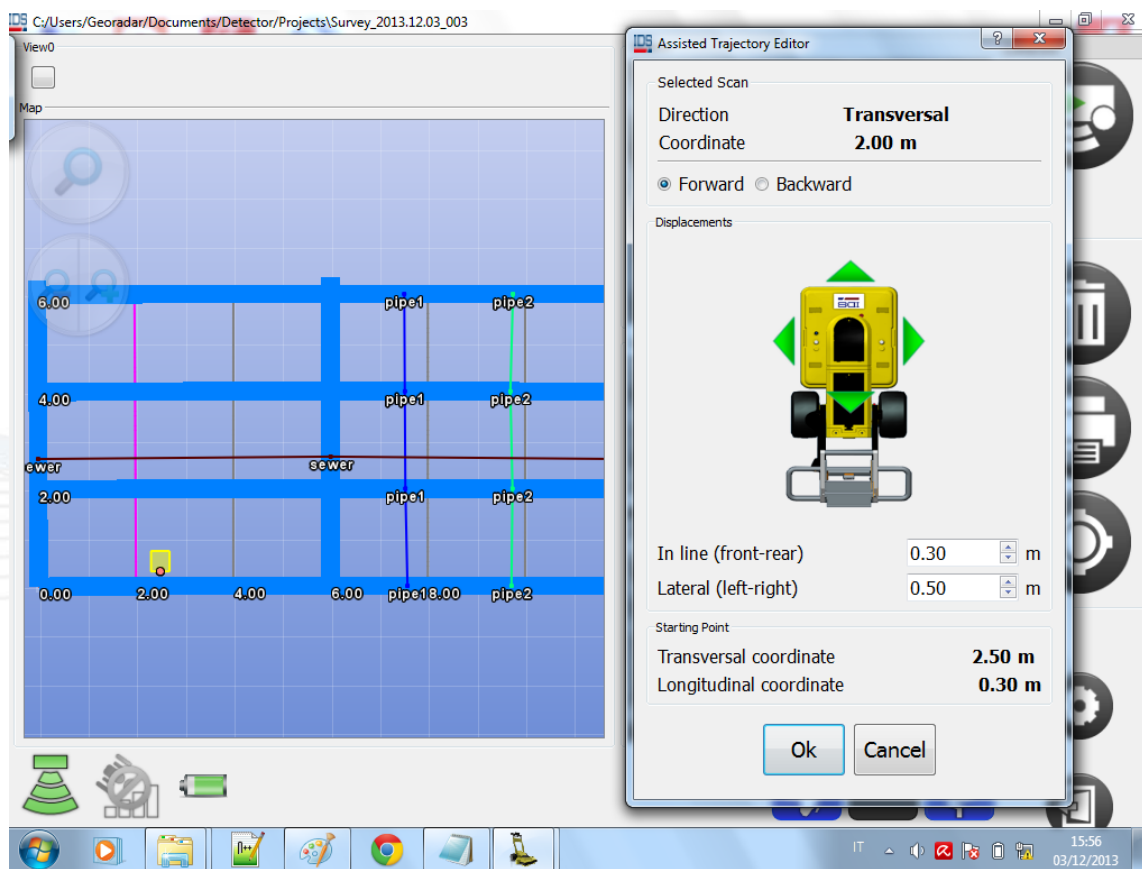


New Assisted Project...

A guided tool will help the user to design and collect data along a grid. Professional survey made easy with the assisted modality!

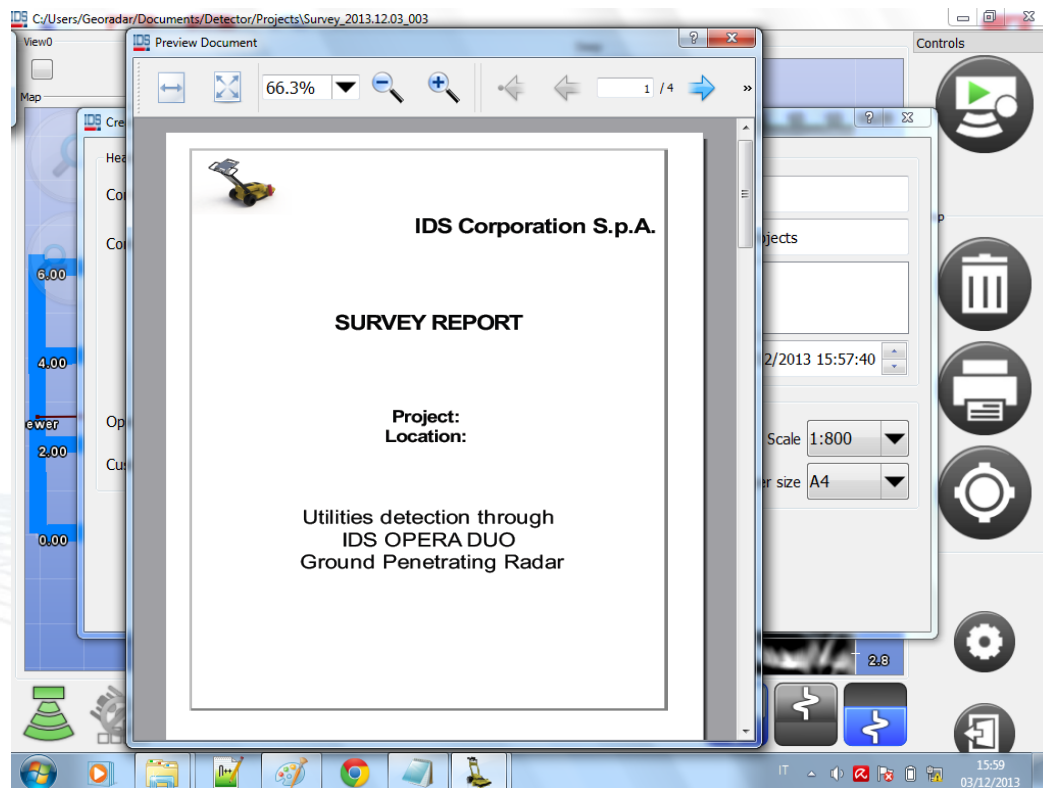


Guided grid acquisition

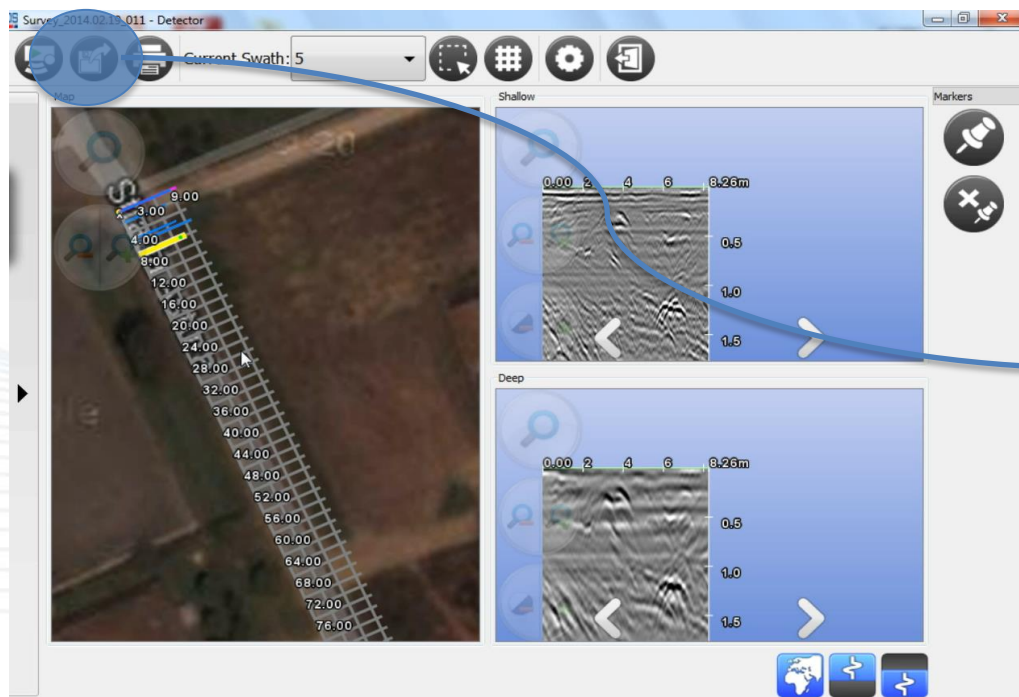


Opera Duo SW report output

Every project can be exported as a report. The report include major information including an overall map of the area, the targets detected with their coordinates, a general description of GPR etc.



Opera Duo SW CAD output



Export to Geomap.
The IDS tool to add all
the targets detected in
a CAD file.

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