IDS GeoRadar

OPERA DUO

The one and only advanced integrated solution for Utility Detection surveys

Robustness and Data Quality meet the Digitalization of the Utility Detection Process (Underground Assets)

PART OF HEXAGON

IDS GeoRadar: The leader in multi-frequency and multi-channel Ground Penetrating Radar

www.idsgeoradar.com

OPERA DUO

The complexity of underground utility network is continually increasing. Obtaining precise informations of subsoil conditions is more and more crucial to increase safety by lowering the risk of accidents caused by utilities rupturing during excavation, pipe deterioration and geologic risks.

Opera Duo is the First-Class Ground Penetrating Radars (GPR) **for locating underground pipes and cables of any material** including non-conductive pipes and fiber optics. Just **few clicks** to understand soil conditions and **no calibration, adjust or manual settings to do.**

NOT JUST SINGLE PRODUCT, BUT CONNECTED INTELLIGENCE

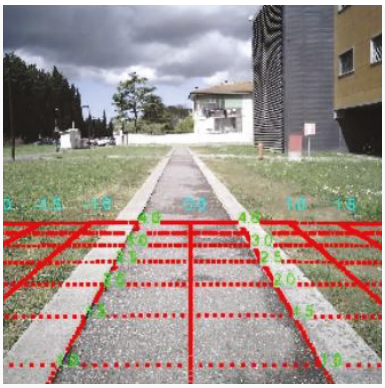
Opera Duo could be supplied with a **camera** whose aim is to reduce acquisition times, combine surface data with underground detection and allow a post-scanning analysis like you were on site!

This GPR is part of a complete and **full integrated Hexagon Detection solutions portfolio.** Combined with a GNSS antenna, a total station or a cable locator, allows you to get accurate data collection from many technologies. All the acquired data can be exported to CAD and GIS, and reports can be produced directly on site and shared real time with your work team. A **new smart approach** for the highest efficiency in the Utility Detection workflow.

Opera Duo leverages the power of **IQMaps**, the latest **Ground Penetrating Radar (GPR) data analysis software** that improves productivity and provides a real time processing and visualization. This software provides a step-by-step approach to **guide users in performing quick data analysis** leveraging a customizable processing and analysis toop for utility mapping.

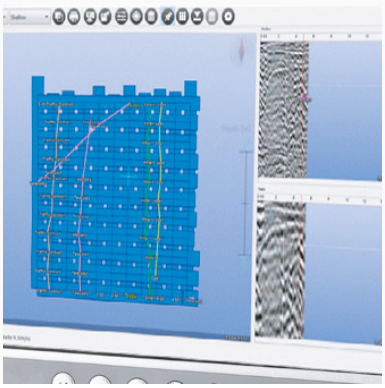
- HIGH DATA QUALITY
- REAL TIME RESULTS
- DUAL FREQUENCY FOR BETTER PENETRATION AND DATA RESOLUTION
- FAST ACQUISITION (CAMERA GRID)*
- EASIER TARGET INTERPRETATION
- SEAMLESS SYSTEMS INTEGRATION

Fusion with visual data and inspection



Accurate Positioning

Automatic Pipe Tracking



Fusion of GPR and EML data

* Patent Pending

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OPERA DUO

SUPERIOR MANEUVERABILITY

ROBUSTNESS

DATA QUALITY

Camera module guide you in the scanning to do parallel scans

Adjustable and foldable handle Gives you the perfect grip and makes easier the transportation

Pivoting head provides better contact on uneven terrain and reduces signal loss

Equipped with dedicated kit for GPS/TS

Remote controlled spray paint in order to mark your findings

Large handle for enhanced maneuverability

Dual-frequency antenna and large dynamic range to locate deep and shallow targets simultaneously with the highest data quality

No exposed cables providing peace of mind assurance of no ruptures in the field

Roto-moulding parts for heavy use in every type of terrain

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TECHNICAL SPECIFICATIONS		SOFTWARE SPECIFICATIONS	BASIC	ADVANCED	ADVANCED + CAMERA
OVERALL WEIGHT (PC AND BATTERY NOT INCLUDED)	24 kg two wheels (53 lbs) 27 kg four wheels (59 lbs)	SEAMLESS INTEGRATION WITH CABLE LOCATOR	●	●	●
RECOMMENDED LAPTOP	Panasonic FZ-G1	REAL - TIME NAVIGATION ON PREDIFINED GRID OR WITH GPS AND TPS	●	●	●
MAX. ACQUISTION SPEED	More than 10 kph (6 mph)	EXPORT OF UTILITY MAP	●	●	●
POWER CONSUMPTION	13.3 W	REMOTE CONTROLLED SPRAY PAINT	●	●	●
POSITIONING	2 integrated encoders and/or GPS - Total station	AUTOMATIC SURVEY REPORT	●	●	●
SCAN RATE PER CHANNEL (@512 SAMPLES/SCAN)	381 scans/sec	REAL-TIME PIPE MARKING, MANAGEMENT AND EDITING TOOL	●	●	●
SCAN INTERVAL	42 scans/m	IMPORT OF CARTOGRAPHIC LAYER (.GEO-TIFF, .KML, .SHP, .DXP)	●	●	●
POWER SUPPLY	SLA Battery 12 VDC 12 AH	AUTOMATIC MAPS DOWNLOAD FROM VARIOUS WMS		●	●
ENVIRONMENTAL	IP65	TOMOGRAPHY		●	●
ANTENNA FOOTPRINT	40 x 50 cm [15.75 x 19.7 in]	POST PROCESSING		●	●
NUMBER OF HARDWARE CHANNELS	2	AUTOMATIC PIPE TRACKING		●	●
ANTENNA CENTRAL FREQUENCIES	250 MHz and 700 MHz	CAMERA MODULE			●
ANTENNA ORIENTATION	Perpendicular, broadside	SYNC PICTURE COLLECTION			●
SAMPLING FREQUENCY	400 kHz	SUPERIMPOSED METRIC GRID			●

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