

## **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)



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

www.idsgeoradar.com



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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!

Opera Duo 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.

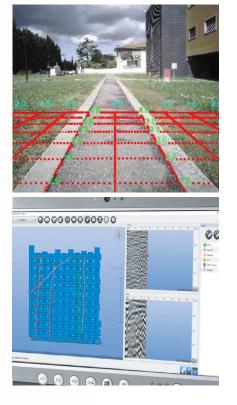






Fusion with visual data and inspection

> Automatic Pipe Tracking







Accurate Positioning

Fusion of GPR and EML data



targets simultaneously with the highest data quality

No exposed cables

providing peace of mind assurance of no ruptures in the field

**uNext** 

for enhanced

maneuverability

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



IDS GeoRadar, part of Hexagon, provides products and solutions, based on radar technology, for mining, civil engineering and monitoring applications. The company is a leading provider of Ground Penetrating Radar (GPR) and Interferometric Radar solutions worldwide.

IDS GeoRadar is committed to delivering best-in-class performance solutions and to the pursuit of product excellence, through the creation of application-specific, innovative and cost efficient systems for a wide range of applications including mining, utility detection and mapping, civil engineering, geology, archaeology and public safety. Hexagon is a global leader in digital solutions that create Autonomous Connected Ecosystems (ACE). Hexagon (Nasdaq Stockholm: H EXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 3.5 bn E UR. Learn more at hexagon.com and follow us **@HexagonAB**.

## IDS GeoRadar Srl

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