IDS GeoRadar

GÖKSU
Trenchless Infrastructure Technologies

Opera Duo

First class underground utility surveys



Robustness Meets Data Quality in the Most Intuitive Ground Penetrating Radar for Utility Location and Mapping

PART OF HEXAGON

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

www.goksualtyapi.com

Opera Duo

Opera Duo Features

SUPERIOR MANEUVERABILITY

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

DATA QUALITY

Large bandwidth offering the highest resolution; the largest dynamic range for the best penetration depth; and dual-head sensor integrating ultra-wide band antennas (250MHz and 700MHz).

INTUITIVENESS

Just click the start button to receive the best performance in every soil condition. No need to perform calibration or adjust any other manual settings.

RESULTS DELIVERED ON SITE

The system tracks the position of the radar and marks targets automatically. All of the acquired data can be exported to CAD and GIS, and reports can be produced directly on site.



Spray marker kit



Easy to transport, foldable trolley



Cartographic Map with Utilities and GPR Path

Opera Duo

Opera Duo configuration

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

Adjustable handle gives you the perfect grip





Equipped with dedicated kit for GPS/TS

Remote controlled spray paint in order to mark your findings



Dual-frequency antenna to locate deep and shallow targets simultaneously

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

Large handle for enhanced maneuverability

SYSTEM SPECIFICATIONS	
OVERALL WEIGHT (PC AND BATTERY NOT INCLUDED)	24 kg two wheels (53 lbs) 27 kg four wheels (59 lbs)
RECOMMENDED LAPTOP	Panasonic FZ-G1
MAX. ACQUISTION SPEED	More than 10 kph (6 mph)
POWER CONSUMPTION	13.3 W
POSITIONING	2 integrated encoders and/or GPS - Total station
SCAN RATE PER CHANNEL (@512 SAMPLES/SCAN)	381 scans/sec
SCAN INTERVAL	42 scans/m
POWER SUPPLY	SLA Battery 12 VDC 12 AH

ANTENNA SPECIFICATIONS	
ENVIRONMENTAL	IP65
ANTENNA FOOTPRINT	40 x 50 cm
NUMBER OF HARDWARE CHANNELS	2
ANTENNA CENTRAL FREQUENCIES	250 MHz and 700 MHz
ANTENNA ORIENTATION	Perpendicular, broadside
SAMPLING FREQUENCY	400 kHz

SOFTWARE SPECIFICATIONS	
OPERA DUO ACQUISITION SOFTWARE	• Automatic calibration for an easy and quick start-up • Metric and imperial units • Visualization and storage of data from both antennas • Capability to mark targets and pipes in the software and in the ground • Available in more than 20 languages • Connection for an NMEA positioning device • Export to CAD and GIS • Export job reports • Advanced grid acquisition procedure

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