

# Opera Duo

First class underground surveys

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Dual frequency antenna lets you see shallower as well as deeper targets.

Advanced GPS integration allows you to perform professional surveys.

New design and parts make it practically indestructible.

All the features in the most intuitive Ground Penetrating Radar ever.



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## 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 the minimum resistance.



### Robust

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 a need to perform calibration or adjust any other manual settings.



### Results delivered on site

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



Spray marker kit



easy to transport, foldable trolley

## Opera Duo configuration:

### Pivoting head

provides better contact on uneven terrain and reduces signal loss



### Remote controlled spray paint

in order to mark your findings

### Dual-frequency antenna

to locate deep and shallow targets simultaneously



Adjustable handle always gives you the perfect grip

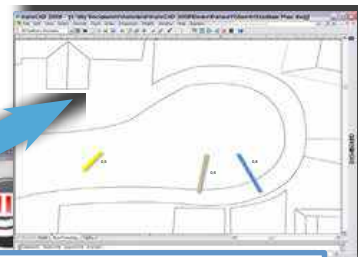


Dedicated pole mounted GPS kit

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



large handle for enhanced maneuverability



On Site digital map export



Current position

GPS path

Targets detected

Shallow and deep antenna radargram

SOFTWARE SPECIFICATIONS		
Overall Weight (PC AND Battery NOT INCLUDED):	24 kg two wheels (53 lbs)	27 kg four wheels (59 lbs)
recommended IAP: OP:	Panasonic CF-h2	
max. ACQUISITION 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 :	SIA Battery 12VDC 12 Ah	
ANTENNA SPECIFICATIONS		
environmental:	IP65	
ANTENNA FOOTPRINT :	40 x 50 cm	
Number OF HARDWARE CHANNELS:	2	
ANTENNA CENTER FREQUENCIES:	250 mhz and 700 mhz	
ANTENNA ORIENTATION:	Perpendicular, broadside	
SAMPLING FREQUENCY:	400 khz	

SYSTEM 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	
export job reports	
Advanced grid acquisition procedure	