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2150GR



2150GR

The new 2150GR ground penetrating radar is your eyes underground. Use it to detect and locate both metallic and non-metallic pipes and cables to depths up to 19' (6 m), depending on soil conditions and antenna selection. With the ability to survey in both forward and reverse, and with survey speeds up to four times faster than the competition, the Subsite® 2150GR has eyes you can trust, from the most trusted name in underground electronics.

Key Features

- Digitally controlled radar allows for faster survey speeds and better images.
- Earth-engaged antenna provides better contact on uneven terrain and reduces signal loss.
- Data recording and storage capabilities provide on-site data review, post-collection analysis, and proof of work when jobs require it.
- Survey speed is up to 4 times faster than the competition.
- Two interchangeable antenna options to customize the unit for your job conditions.
- Auto-calibrating gain and filter take the guesswork out of setup.
- Folds for easy transport.

Specifications

2150GR		
System	U.S.	Metric
Language	English, French, German, Spanish, Italian, Spanish, Portuguese, Chinese	
Data collection type	parallel profile lines, perpendicular to the expected orientation of utilities	
Survey path width	19.7 in	500 mm
Recording channels	1	1
Transmitting frequency	100 kHz	
Typical antenna frequency	250 or 700 mHz	
Typical collection speed (scans/second)	100	100
Typical collection speed @ 2"(5-cm) sampling interval	5.6 mph	9 km/h
Display mode	gray scale/color palette	
Zoom	up to 4X	
Data storage	onto the laptop hard drive	
Maximum profile length	virtually unlimited	
Stored data format	raw data (for further data analysis)	
Setting of GPR propagation velocity (to get accurate evaluation of depth of detected targets)	ground truth or hyperbola fitting methods	
Reading of pipe position/depth	by a software cursor	
System output	printable radar map with descriptor of detected utilities	
Diagnostic	radar and power supply status, excessive speed, data loss	
Radar Power Requirements		
Battery operating time	>10 hours	>10 hours
Power supply	12V sealed lead acid, 12Ah	
Mechanical/Environmental		
Operating temperature	14°F-104°F	-10°C-40°C
Humidity	100% (sealed)	100% (sealed)
Antenna/array weight including frame, without battery	19.8 lb	9 kg
Length, without handle	26.7 in	680 mm
Width, without handle	31.4 in	800 mm
Environmental	IP65	IP65
250 MHz Antenna Performance		
Antenna technology	ultra wide band ground coupled shielded dipole	
Typical range	0.6 - 8.2 ft	0.2 - 2.5 m
Maximum range	0.6 - 19.7 ft	0.2 - 6.0 m
700 MHz Antenna Performance		
Antenna technology	ultra wide band ground coupled shielded dipole	
Typical range	0.32 - 4.9 ft	0.1 - 1.5 m
Maximum range	0.32 - 8.2 ft	0.1 - 2.5 m

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