



# SPECIFICATIONS

## 2550GR GROUND PENETRATING RADAR

	U.S.	METRIC
<b>SYSTEM</b>		
Survey path width	19.68 in	500 mm
Recording channels	2	
Transmit pulse frequency	200 kHz	
Typical antenna frequency	250 and 700 MHz	
Typical collection speed (scans/second)	100	
Typical collection speed at 2-in (5-cm) sampling interval	5.6 mph	9 km/h
Display mode	Gray scale/color palette	
Zoom	Up to 4x	
Data storage	Laptop hard drive	
Profile length, max	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	Software cursor	
System output	Printable radar map with descriptor of detected utilities	
Diagnostic	Radar and power supply status, excessive speed, data loss	
Languages	English, French, German, Spanish, Italian, Portuguese, Chinese	
Data collection type	Parallel profile lines, perpendicular to the expected orientation of utilities	
<b>RADAR POWER REQUIREMENTS</b>		
Battery operating time	<10 hours	
Power supply	12V sealed lead acid, 12 Ah	
<b>MECHANICAL</b>		
Operating temperature	14-104°F	-10-40°C
Humidity	100% (sealed)	
Weight, w/out battery or PC	60.6 lb	27.5 kg
Weight, w/out PC	68.6 lb	31.1 kg
Weight, total	73.9 lb	33.5 kg
Width	21 in	533 mm
Length, handle fully extended	49.92 in	1.27 m
Length, folded	39.96 in	1.02 m
Height, handle fully extended	39.48 in	1 m
Height, folded	20.4 in	521 mm

	U.S.	METRIC
<b>DUAL FREQUENCY</b>		
Antenna technology	Ultra-wide band, ground coupled, shielded dipole	
Typical range	.32-8.2 ft	0.1-2.5 m
Range, max	.32-19.7 ft	0.1-6 m
<b>RECOMMENDED PC SPECIFICATIONS</b>		
Processor: Intel® Core™ i5 1.9 GHz (minimum: Intel® Core™ i3 1.7 GHz)		
RAM: 4GB (minimum 1GB)		
Screen Resolution: 1024 x 786		
Operating System: Windows 7 (32bits)		
Shock Proof Hard Disk Drive		
Serial Port RS 232 (only used with the GPS)		
USB Port (minimum: Ethernet port)		
Intel HD Graphics 3000 or nVidia graphic adapter compatible with OpenGL 2.1 or newer (minimum: graphic adapter compatible with OpenGL 2.1)		

### GPS REQUIREMENTS

The 2550GR system can be used with a GPS to position the scans in real time without the need of creating a grid. Requirements are:

- Dual frequency (L1+L2)

- Positioning update greater than 5 Hz

- RTK: connection to a base station via radio link (UHF or GSM) or connection to a Continuously Operating Reference Station (CORS) via internet

- NMEA output

- Serial cable (RS232) or Bluetooth® connectivity

Specifications are general and subject to change without notice. If exact measurements are required, equipment should be weighed and measured. Due to selected options, delivered equipment may not necessarily match that shown.