

 **DITCH WITCH® ELECTRONICS**

# 2450GR GROUND PENETRATING RADAR



## KEY FEATURES

*(Photograph A)* Locates both metallic and non-metallic pipes and cables to allow one-pass locates at depths of up to 19.7 feet (6 m).

With 5.6 mph (9 km/h) survey speed and digitally controlled radar, the 2450GR provides fast, clear images.

Earth-engaged antenna provides better contact on uneven terrain and reduces signal loss.

Dual-frequency antenna simultaneously sweeps in two frequencies; this allows the operator to see both deep and shallow objects simultaneously.

*(Photograph B)* The 2450GR folds up into a size that is easy to transport.

*(Photograph C)* Rugged, four-wheel cart design allows the operator to scan in the easiest and roughest conditions.

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# 2450GR GROUND PENETRATING RADAR

## SPECIFICATIONS

SYSTEM	U.S.	METRIC
Survey path width	19.7 in	500 mm
Recording channels	2	
Transmit pulse frequency	200 kHz	
Typical antenna frequency	250 MHz 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	
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	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° F to 104° F	-10° C to 40° C
Humidity	100% (sealed)	
Weight, without battery or PC	60.6 lb	27.5 kg
Weight, without PC	68.6 lb	31.1 kg
Weight, total	73.9 lb	33.5 kg
Width	21 in	533 mm
Length, handle fully extended	50 in	1.27 m
Length, folded	40 in	1.02 m
Height, handle fully extended	39.5 in	1 m
Height, folded	20.5 in	521 mm
<b>DUAL FREQUENCY</b>		
Antenna technology	Ultra-wide band, ground coupled, shielded dipole	
Typical range	0.32 ft - 8.2 ft	0.1 m - 2.5 m
Maximum range	0.32 ft - 19.7 ft	0.1 m - 6 m
<b>RECOMMENDED PC SPECIFICATIONS</b>		
Processor	1 GHz or faster	
RAM	512 MB or more	
Display resolution	800 x 600 or higher	
Hard drive	Shock proof or solid state	
Hard disk space	100 MB available	
Ethernet connection	100 Mbps	
USB connection	USB 2.0	
Operating system	Windows® 2000 Professional SP4 or Windows® XP Professional	
No software protecting data exchange (firewall protection, etc.)		