

Seeker SPR

Surface Penetrating Radar



COMPLETELY SELF-CONTAINED • PINPOINT ACCURACY • NON-DESTRUCTIVE

500 MHz Trackercart mounted



500 MHz Trackercart mounted with RGO rough terrain attachment



250 MHz Trackercart mounted



SPOT

SPOT is a highly portable backpack system for high-resolution imaging of targets such as rebar, wire mesh, and conduits. It is completely self-contained including battery, charger, electronics, and mains power adapter. Available in 1000 MHz or 2000 MHz versions. On board screen makes for easy detection and mark-out of targets. On board memory and USB ports enable the operator to transfer data for further image processing or report building.



100 MHz

The 100 MHz antenna offers the deepest realistic penetration that this technology can offer. Capable of depths up to 100 feet (30 meters). The system incorporates a separate transmitter and receiver connected by pivoting assembly for greatest terrain ability.

1 GHz Trackercart mounted for scanning floors, slabs, and horizontal surfaces



1 GHz pole mounted for hard to reach and tight locations



- User-Friendly Touch Screen Operation
- Easy to Navigate Settings

- Super Bright Daylight Readable Screen
- Easiest to Read Data

- Balanced Trackercart
- Most Maneuverable With Less Operator Fatigue

Most Durable, Greatest Run Time, Longest Lifetime Battery Packs

Field Rugged Dedicated Controller Unit

Numerous User-Defined Processing Capabilities Built Right In. The Most Field-Ready System Available.

USB Port: Easy Connection to Various Peripherals

Robust Military Spec Connectors and Cables

Optimized High Performance Antennas. Greatest Depths with Greatest Resolution



A wide range of custom solutions are available for applications in Engineering, Archaeology, Forensic and Law Enforcement, Environmental, Security, Search and Rescue



2 GHz handheld



Technical Specifications

Radar Controller Computer

Processor:	x86
Radar Interface Card:	Proprietary
Memory:	SDRAM
Hard Disk(Program and Storage):	Ruggedized Solid State
Display:	10.4" Transflective Daylight Readable Color TFT LCD
Dimensions:	335 mm x 235mm x 95mm
Weight:	5.0kg/ 11 lb.
Power Supply:	10.5-18VDC @ 45 W

Control

Windows based full screen menu system using touchscreen interface. Optional use of full keyboard and mouse.

I/O Provision

PS/2 MiniDIN Connector for Keyboard
PS/2 MiniDIN Connector for Mouse
Serial Port
Radar Interface Port
DC Power Port
2 USB 2.0 Ports

Software

Microsoft Windows
Subsurface Imaging Systems/US Radar Control Software Including:
System Configuration
A Scan Display (Oscilloscope Mode)
B Scan Display (Cross Sectional View)
C Scan Display (area Scan)
Real Time Signal Processing
Data Storage and Playback

System Scan Modes

Logging scan rate of 250 scans per second typical with gain and remove average algorithms enabled.
Trigger Modes: Free run, timed interval, shaft encoder
Nominal Sampling Rate 1,000,000 samples per second
Time Varying Gain Maximum 40dB

Radar Head Electronics

Total System Dynamic Range:	>130 dB
Receiver Dynamic Range:	>90 dB
Time Range Minimum:	6.3 ns
Time Range Maximum:	820 ns
Pulse Repetition Time:	1 us
Effective Bandwidth (typ):	3GHz
Dimensions:	290mm x 210mm x 85mm
Weight:	2 kg / 4.4 lb.

System Environmental Specifications

Temperature:	-11 deg. to 50 deg. C
Humidity:	non condensing 0% to 90%
Seals:	IP 55

Antennas

P-0250	250 MHz
Pulse duration (typ)	2.0 ns
Dimensions	560mm x 560mm x 270mm
Weight	6.0 kg/ 13.2 lb.
P-0500	500 MHz
Pulse Duration (typ)	0.9 ns
Dimensions	400mm x 400mm x 250mm
Weight:	4 kg / 8.8 lb.
P-1000	1000 MHz (1 GHz)
Pulse Duration (typ)	0.4 ns
Dimensions	200mm x 200mm x 95mm
Weight	2kg / 4.4 lb.
Optional wall encoder	
May be used as handheld or cart mount	
P-2000	2000MHz (2GHz)
Pulse Duration (typ.)	0.2 ns
Dimensions	120mm x 120mm x 100mm
Weight	0.65 kg/ 1.43 lb
P-100	100MHz (1GHz)
2 separate pieces: transmitter, receiver	
Pulse Duration (typ.)	4 ns
Dimensions	800mm x 550mm x 162mm (ea.)
Weight	7.3 kg/ 16 lbs. (ea.)

Optional Equipment

Additional Battery Packs and Chargers
33.3 ft. (10m), 83.3 ft. (25m) and 133.3 Ft. (40m) data/ control cables
Remote Control Unit
Rough Ground Tracker cart Attachment
Wall Shaft Encoder
Thermal Printer

1 Year Parts and Labor Warranty with loaners at no charge during repair
Unlimited telephone or email support at no charge.
Up and Running First...Ask Questions Later Loaner Component Program



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