## 2150GR SPECIFICATIONS

| System | U.S. | Metric |
|---|---|---|
| Languages | | |
| English, French, German, Spanish, Italian, 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 | |
| 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 | |
| Power Supply | 12V sealed lead acid, 12Ah | |
| **Mechanical/Environmental** | | |
| Operating Temperature | 14° F to 104° F | -10° C to 40° C |
| Humidity | 100% (sealed) | |
| Weight (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 | |
| **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 |

### KEY FEATURES

- 2150GR provides an accurate survey whether the operator is pushing or pulling it across any surface.
- User-friendly software enables the operator to manually input landmarks such as water hydrants and sewer drains, for more accurate survey maps.
- Digitally controlled radar provides faster survey speed—up to four times faster than competitive models—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.
- Two interchangeable antenna options to customize the unit for the job conditions.
- Auto-calibrating gain and filter take the guesswork out of setup.
- Folds for easy transport in a standard car trunk.



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