Earth Science Systems

ESSENTIAL UNDERGROUND INFORMATION

Concrete Scanner

Dual Frequency GPR with Power Detection

Detects and produce 3D images of shallow targets with high resolution while also detecting deeper features.
Senses the presence of power lines.

The **ESS Concrete Scanner** has been designed to detect deep subsurface targets while still providing high-resolution. The unit boasts the most diverse sensor suite on the market today. It can be used to locate rebar, power lines, cables, conduits, pipes and voids.

Dual frequency GPR antennas produce high-resolution scans without sacrificing penetration depth. The 2 GHz antennas sense objects to approximately 2 feet depth, while the 750 MHz sensors detect large objects as deep as 4 feet.

The heart of the system is a scanner with a wireless connection to a tablet computer. The system supports several different operating configurations. With the tablet mounted on a stationary stand, users can freely make held-held scans. Alternatively the long handle offers different configurations for quickly scanning floors, walls, or hard to reach places.

Live scan visualizations allow for simple and quick markouts while advanced analysis software provides cross-section and 3D views.

Earth Science Systems, LLC – 11485 W. I-70 Frontage Rd. – Wheat Ridge, CO – USA
www.earthsciencesystems.com – Tel: 303-800-2000

Concrete Scanner

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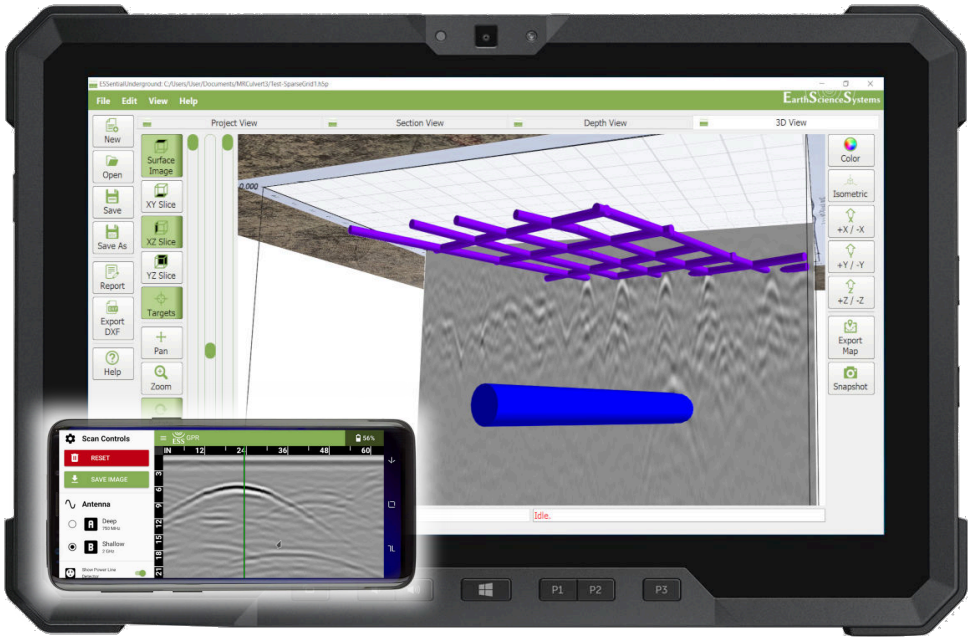
Dual Frequency for High Resolution without Sacrificing Depth

Fast Scans with Smartphone
Conduct fast 2D scans using your smartphone*. No computer needed.

Advanced 3D Scans with Tablet
Conduct 3D and interactive visualizations with Windows Tablet. Create reports and drawings in DXF, PDF, and Microsoft Word. Overlay user photo or Google Maps imagery.

Structural Analysis
Determine cover, thickness, and rebar location. Detect voids. Locate and identify conduits.

No Cables in Operation
No cables or connectors to get frayed or damaged. Eliminates intermittent connections.



User-Friendly Ergonomics
Integrated handle for arms-length surveys. For floor surveys an adjustable locking extension handle is included.

Easy Charging
The shipping case's integrated charging system simultaneously charges the tablet and two scanner batteries.

Specifications

- 2 GHz bi-static radar antenna
- 750 MHz bi-static radar antenna
- Electric field sensors for detection of energized current-carrying circuits or tracer signals
- Rugged Dell tablet computer
- WiFi-interfaced, fully cable-less operation
- Durable construction
- IP65 ingress protection
- Integrated optical odometer
- Multi-position thumb switch for controlling scanner operation and data recording
- Rechargeable 6400mAh LiFePO4 battery with up to 6 hours continuous operation
- Two batteries with dual charger for all day use
- Device dimensions:
  12 x 8.9 x 8.5 inches (30.5 x 35.6 x 21.6 cm)
  5 lbs. (2.3 kg)
- Shipping dimensions:
  20 x 14 x 10 inches (50.9 x 35.6 x 25.4 cm)
  7.7 lbs. (3.5 kg)

* Smartphone not included. Minimum requirements:
5 GHz WiFi support with Android 7 or iOS 12.5.

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