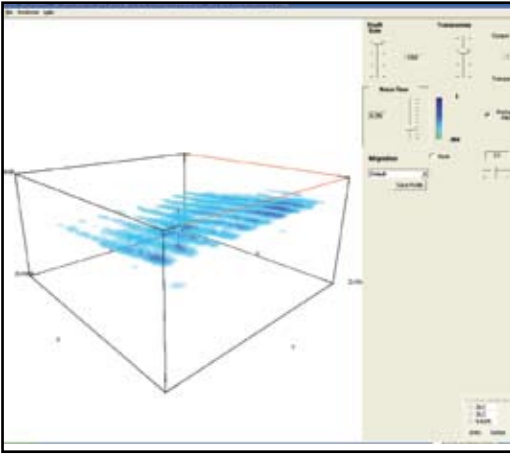


RTOP-3D

Internal object detection and imaging

ENSCO's RTOP-3D provides in-wall object detection and imaging to determine the presence of rebar, pipes, wires, and other utilities.



For more than 20 years, ENSCO has been a leader in detection and imaging of sub-surface objects.

RTOP-3D rapidly detects, locates, and maps metal and non-metal buried and embedded objects in flat structures constructed of concrete, asphalt, masonry and other typical building materials.

Features

Easily portable and simple to use, RTOP-3D:

- Features integrated software package to streamline workflow
- Collects, transfers, and processes data in one software environment
- Uses optimized code, which allows rotation of data volume in 3D and responsive true 3D processing
- Provides a simple user interface which allows inexperienced operators to quickly interpret data
- Employs optical positioner to simplify collection and prevent pitfalls



- Collects data only when in contact with the mat and properly oriented
- Collects data in any order—no grid lines to follow
- Displays current position and covered area on laptop in real time
- Provides quick, simple setup and takedown
- Has no cables to connect or disconnect

System Includes:

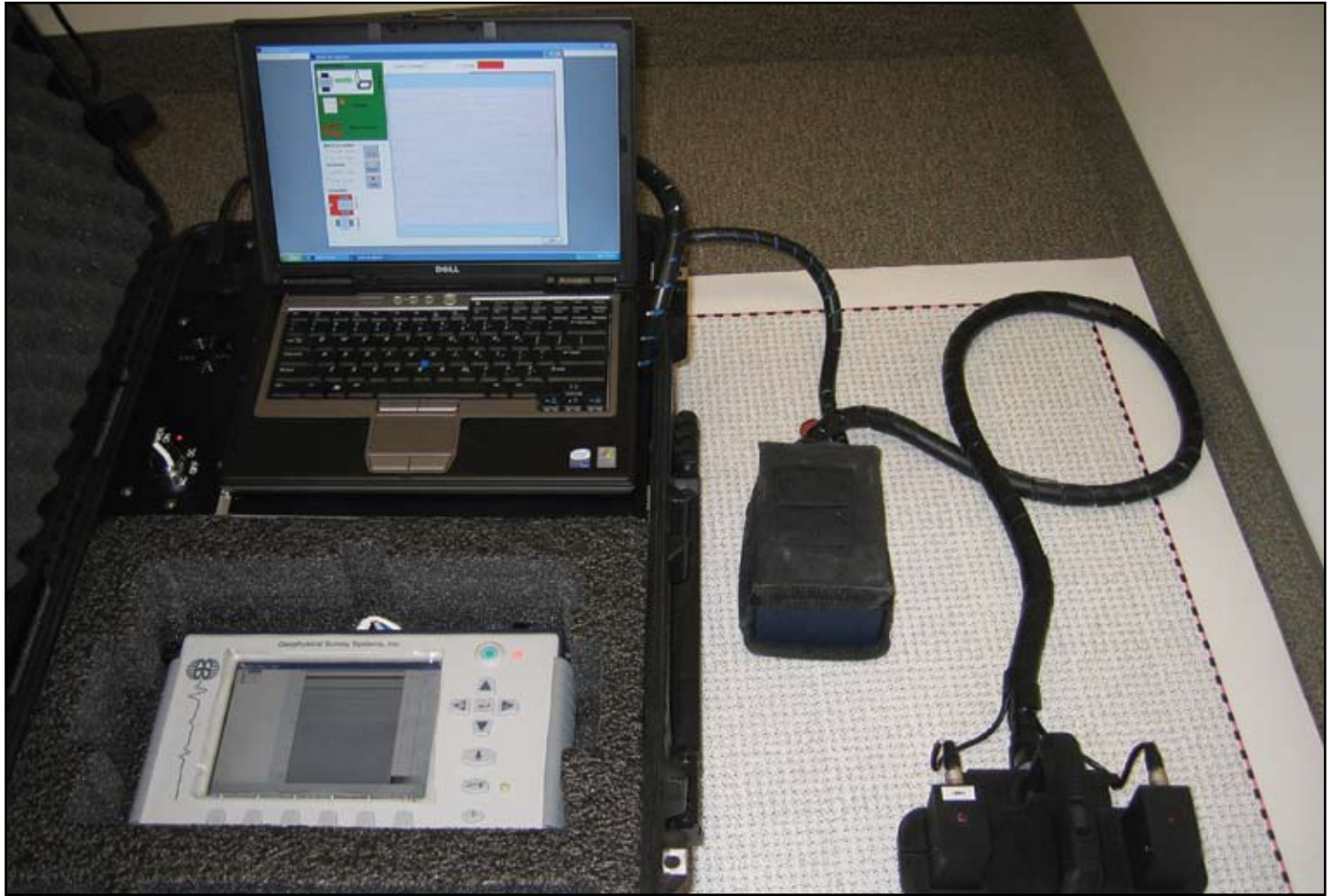
- Commercially available ground penetrating radar (GPR) system with 1.5 GHz antenna
- Ruggedized laptop augmented with ENSCO-developed positioning and imaging systems software to:
 1. Increase the ease and speed in which surveys are conducted

2. Simplify the tedious operator-intensive data collection process, a common source of errors
3. Provide the user with a near real-time interactive 3D visualization of the walls interior; eliminating complex data interpretation

- A 22' (6.7 m) cable, hip pack with belt, and handheld unit with positioners and antenna in rugged case packaged for quick setup
- Spare battery set and battery chargers in separate, rugged case
- Plastic mat in document tube
- CD with imaging software and plot-able mat file

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Specifications

Depth of investigation	Significant penetration in indoor and outdoor concrete
System weight	86 lbs. (39 kg) entire system <i>(includes spare batteries, charger case, and mat case)</i> 3.9 lbs. (1.8 kg) handheld unit
Battery life	4+ hours continuous collection or 4 hours continuous data processing on one set of batteries
Coverage area	32" x 39" (81 cm x 99 cm) on one mat
Resolution	0.4" (1 cm) in high resolution mode 1" (2.5 cm) in low resolution mode
Time to collect over entire mat	12 minutes in high resolution mode 3 minutes in low resolution mode

**For more information,
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