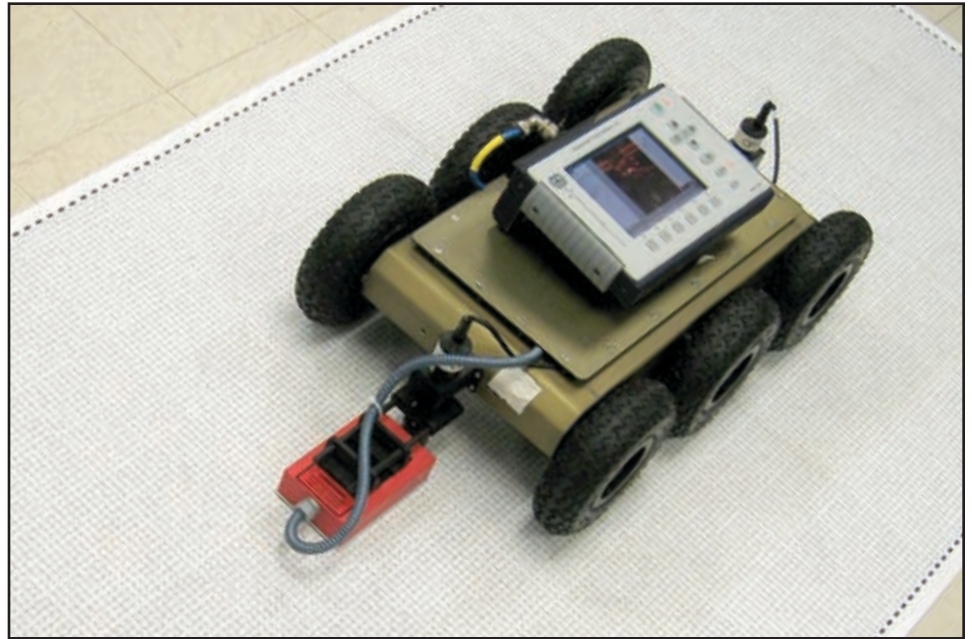
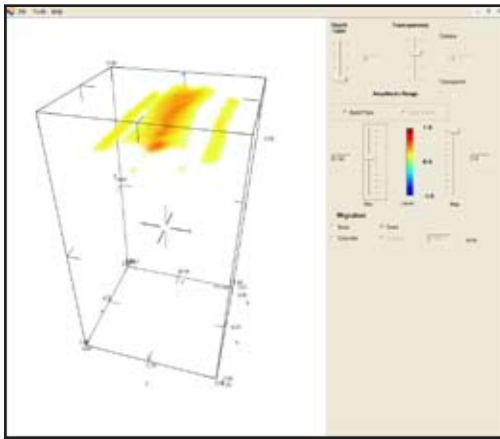


FLOORBOT

Automatic buried object detection and imaging

ENSCO's FloorBot detects, locates, and provides images of buried objects below floors and roads (concrete and asphalt).



Our robot uses autonomous navigation and is equipped with an imaging Ground Penetrating Radar (GPR) system to interrogate bridge decks, road sections or pipe/conduit located in building interiors. FloorBot can be optimized to provide either detailed images of rebar location/condition or utility location below roads.

FloorBot is based upon commercial GPR and is fully integrated with ENSCO-developed optical positioning and visualization software to provide easy high-resolution three-dimensional imaging of the subsurface.

- Portable
- Easy set-up and use
- No user interaction required during data collection
- 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

- Uses commercially available GPR
- Augmented with ENSCO-developed positioning and imaging systems in order to:
 1. Increase the ease and speed in which surveys are conducted
 2. Automate the tedious operator-intensive data collection process, a common source of error
 3. Provide the user with a near real-time interactive 3D visualization of the road/floor, eliminating complex data interpretation

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

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