



# Earth Science Systems

ESSENTIAL UNDERGROUND INFORMATION

## Utility Scanner Dual Frequency GPR

High resolution scanner with deep detection capabilities. Conduct fast reconnaissance surveys or complete Subsurface Utility Engineering surveys and reports.

The **ESS Utility Scanner** is a dual frequency GPR system that detects deep targets while still providing high-resolution. It can be used to locate rebar, power lines, cables, conduits, pipes, voids, underground storage tanks, and more.

Dual frequency GPR antennas produce high-resolution scans without sacrificing penetration depth. The 750 MHz antennas sense objects to approximately 10 feet depth, while the 350 MHz antennas detect objects as deep as 20 feet. Detects power lines with magnetic sensor.

The integrated GPS system provides real-time steering guidance so that time-consuming scan grid layout and marking can be avoided. Advanced software suite for 3D views and virtual fly-throughs.

Combine all Subsurface Utility Information into a single database. Generate advanced reports and drawings.

An adjustable suspension survey cart can be used in parking lots or in open fields. Wireless connections eliminate all troublesome cables.

# Utility Scanner



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## **Dual Frequency GPR provides High Resolution and Deep Penetration**

### **Advanced Software**

View 3D results and mark detected objects for interactive visualization.

### **Rich Reporting**

Create reports and drawings in Microsoft Word, PDF, DXF, and incorporate Google Maps satellite imagery.

### **Adjustable Cart Suspension**

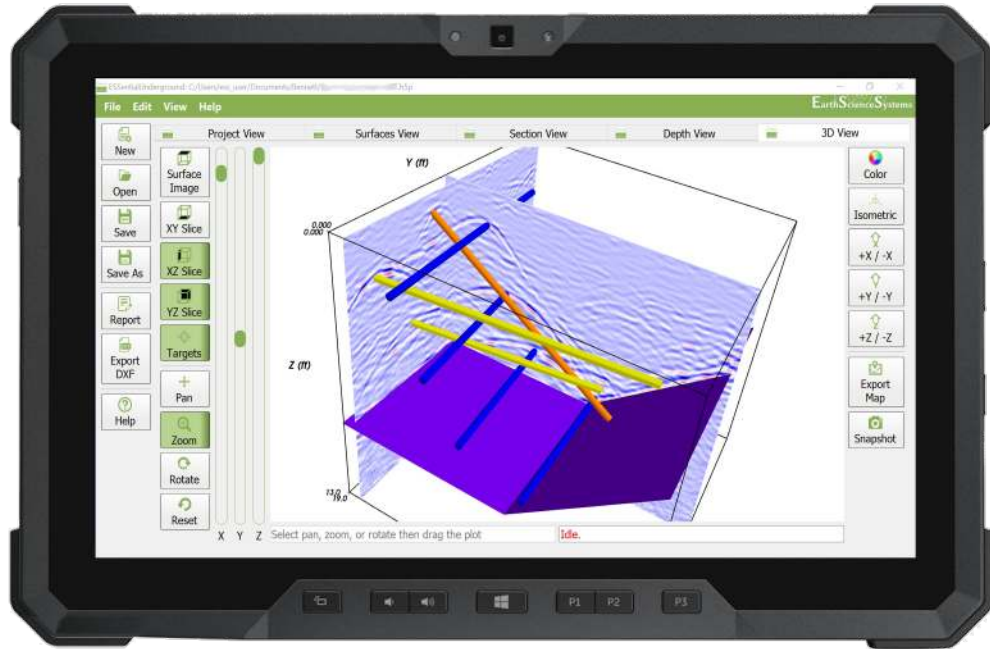
The survey cart has an adjustable suspension that can be set for surveys in parking lots or open fields.

### **Subsurface Utility Engineering**

Combine SUE information at all quality levels (A-D) and generate reports.

### **GPS Base Station**

Enables real-time steering guidance for gridded surveys. Eliminates time consuming survey grid mark-out on the ground.



## **Specifications**

- 750 MHz bi-static radar antenna
- 350 MHz bi-static radar antenna
- Magnetic field sensor for detection of power lines or tracer signals
- Rugged Dell tablet computer included
- WiFi-interfaced, fully cable-less operation
- Durable construction
- IP65 ingress protection
- Integrated optical odometer
- Integrated GPS with optional base station provides ~1 cm (1/2 inch) precision
- Optional GPS rover for surveying surface features
- Two 99 Wh Lithium-Ion batteries with dual bay charger
- 12 hours typical operation on a single charge
- Device dimensions (with cart stowed): 34 x 25.5 x 16 inches (66 x 77.5 x 30.5 cm) 65.8 lbs. (29.8 kg)
- Shipping dimensions with minimal case: 39.5 x 31 x 20.5 inches (100 x 79 x 52 cm) 100 lbs (45.4 kg)
- Dimensions with optional transit case: 37.5 x 28 x 21 inches (95 x 72 x 53 cm) 156.2 lb (75 kg)



**GPS Base Station**