UtilityScan®

Locating and marking underground utilities in real-time in the field has been a powerful application of ground penetrating radar (GPR) for many years. A knowledgeable utility locator with a GPR system as part of their tool box is able to accurately identify buried utilities. UtilityScan is built for the utility locating professional to accelerate workflow from target detection to reporting.

Real-time Target Mapping

- Easily pair with your external Bluetooth-enabled GPS, system includes built-in GPS pole adapter
- Map Mode allows you to trace your steps and gain a bird's-eye view of your survey
- Place APWA color-coded marks on your 2D data and geo-referenced map simultaneously

Advanced Capabilities

- Collect and create 3D scans
- Optional LineTrac® power detection module to identify and trace precise location of underground and RF-induced utilities

Rugged, Flexible System

- Rated IP65 - Durable components tested to withstand the toughest conditions
- Compact and portable - weighs just 15.4 kg (34 lbs)
- Optional three- or four-wheel survey carts for challenging survey conditions

See our website for more information and detailed specifications: www.geophysical.com

UTILITYSCAN FEATURES

Rugged System for Construction Environments

UtilityScan is rated IP65 and built to meet your job site needs. It can withstand the most challenging survey environments including rain, dust, and extreme cold down to -20°C (-4°F). The Panasonic G2 tablet screen is designed for rain and glove use. For areas where Wi-Fi is prohibited, this system includes a rugged Ethernet cable that can be used for communication between the tablet and antenna.

Integrated Advanced Sensor

UtilityScan can be configured with an optional LineTrac® power detection module. LineTrac is designed to identify and trace the precise location of underground electric and RF-induced utilities. This allows the detected power or induced frequencies data to be overlaid on the radar data, providing reliable positioning and target information to the user. These technologies are integrated into one seamless system to aid in target recognition and mapping, a first for the utility detection industry.

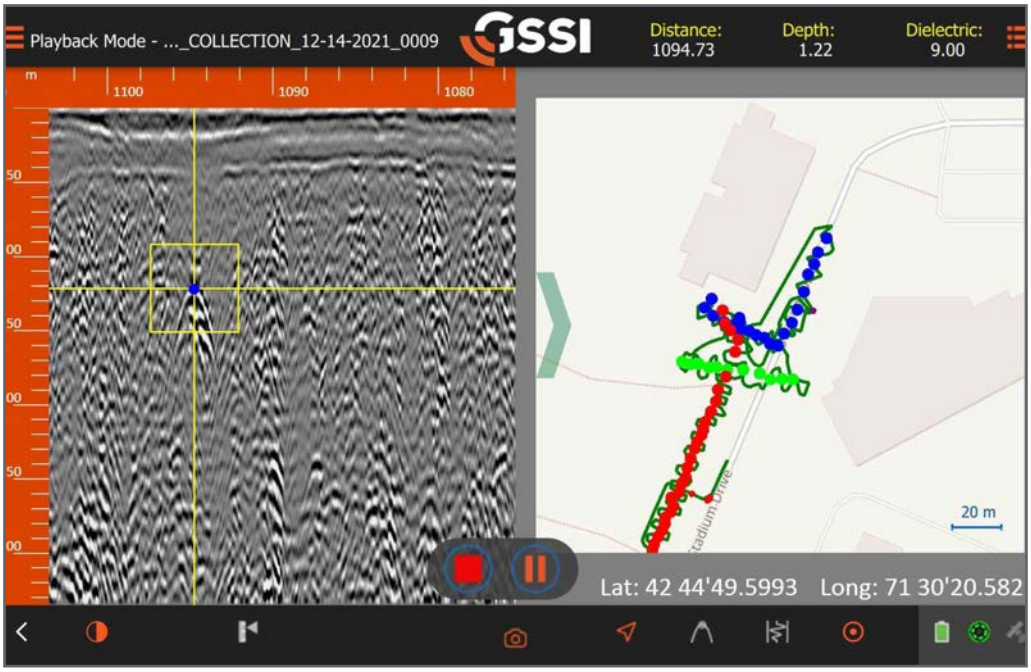
Warranty and Support

At GSSI, we fully back our products to ensure our customers get the maximum value for their investment. UtilityScan comes with a two-year warranty and complimentary training from our staff of dedicated, professional trainers during the warranty period. With every purchase, we provide unmatched technical support for the lifetime of your system.

UTILITYSCAN DATA

MAP MODE

With Map Mode on UtilityScan, you can simultaneously pick targets and view their corresponding location on the GIS map shown on the right side of the screen. You can select the window size of the data and the map, or keep it split evenly as shown. The map shows an overview where the user located three different types of utilities. The dark green line represents the path that was taken when collecting the data.

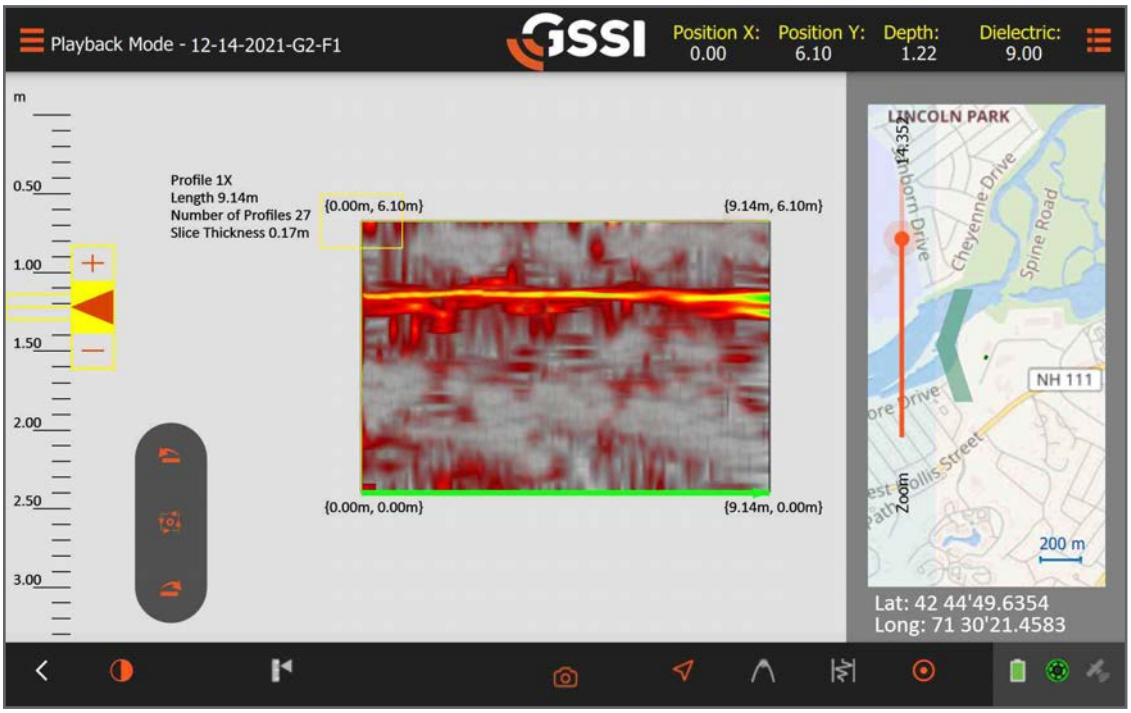


Data on the left side of the screen shows a typical utility at 1.25m in depth and shows a nicely defined base layer at .4m in depth. The blue dot on the data image is a water line.

● Electric power lines ● Sewers and drain lines ● Potable Water

3D IMAGE

On-screen 3D data collection mode allows you to define an area of interest. You can easily define the time slice depth and thickness in the field with the 3D data on the screen. The map window can be minimized to view your 3D display full screen.



Data image shows a horizontal yellow line that is a water line located at 1.25m in depth, collected with 3D mode.

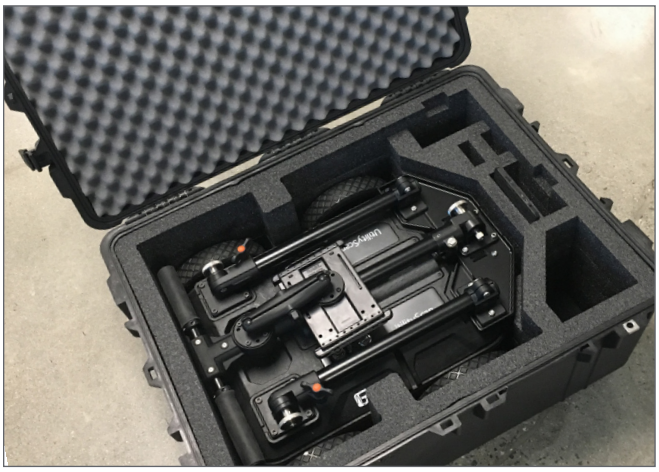
This grid is 6x9 meters. The arrow on the left is the vertical position of the target. The + and – is how you control the thickness of the time slice.

SATELLITE & AERIAL IMAGERY

UtilityScan software automatically saves a sample image (Target 1990 in the image below) for every target designated within the software. These in field targets can easily be exported into commonly available geo-browsers. These browsers can be used to create images for reports in the office or in the field.

Image at right shows a water line (blue), sewer line (green) and an electrical line (red). The yellow line is the GPS track taken by the user.

ACCESSORIES



Transit Case

This Pelican case features custom-cut foam and is designed to hold the UtilityScan system as well as its components and accessories. The case is designed to easily transport the system whether you're throwing it in the back of your truck, shipping it across the country or checking it on a plane.

Optional Survey Carts

Model 626: three-wheel cart (shown above) that includes a specifically-built center-positioned bracket to hold the UtilityScan system chassis and is best suited for uneven surfaces and grassy field areas.
Model 656: four-wheel cart that is suited for rugged terrain survey conditions.

PRODUCT SPECIFICATIONS

Controller	Panasonic G2 Tablet
	See GSSI website for additional specifications
Display	10.1" WUXGA 1920 x 1200 Capacitive gloved multi touch + digitizer
Processor	Intel® Core™ i5-10310U vPro™ processor
Battery / Operation Time	10.8V, 6300mAh / 9.5 hours
Environmental	IP65
Durability	MIL-STD-810H
System	
Frequency	350 MHz
RF Noise Reduction Method	Patented Transmit Signal Dithering
Typical Range	12 ft / 6 m (media dependent)
Maximum Range	35 ft / 10 m (media dependent)
Communication Interface	Wi-Fi or Ethernet
LineTrac AC Current Detection	Yes (optional)
Languages	English, French, Spanish, Portuguese, Chinese
GPS	Internal (Tablet) and External (Bluetooth)
GPR - Battery/Battery Life	Lithium-Ion/6 hour
Operating Temperature	-20°C to 40°C (-4°F to 104°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Weight With Tablet & Battery	37 lbs (16.8 kg)
Dimensions (folded)	22 x 19.25 x 12.5 in (56 x 49 x 32 cm)
Environmental	IP65
Durability	3 Axis 30G shock tested, Vibration tested (20-2,000 Hz)
Software	
Real-time Filters	Band Filter
Display Modes	**Linescan Mode:** Data displayed with option to show LineTrac overlay **Map Mode:** 2D data displayed in split screen view concurrently with GIS location map **3D:** Data displayed in user-defined 3-dimensional grid area **Focus Mode:** Filtered data display for closely-spaced targets

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