100S

- Single frequency antenna
- Can locate targets up to 100 feet deep with incredible accuracy
- Designed for geotechnical work, tunnel detection, and other deep/large utility locating.

Note: overall depth capabilities can be affected by different materials and soil conditions.

100S

- The 100 Series is one of our most versatile systems, as the tablet and software are interchangeable with our other systems. This means that you can easily convert a 100 Series into one of our many other configurations for more high-resolution scanning applications.
- Think of your 100 Series system as more than a high-powered GPR device. When conducting a survey, you are doing more than seeing beneath the surface. You are compiling essential data that can be used to create an instant deliverable in the field – right from your tablet controller. This ensures everyone is on the same page and operating from a shared point-of-reference with greater efficiency, safety, and confidence.

Featured Technology

- Self-Calibrating Antenna
- SmartGain
- SmartStack
- StreetSmart Onboard Processing
- Autoconfiguration
- Broadband GPR
- Depth Calibration

APPLICATIONS

Locating Deep/Large Utilities:

- Non-metallic Pipes
- Metallic Pipes

Environmental:

- Tanks
- Rubble Limits
- Voids

Geophysics:

- Strata
- Bedrock

Strategic:

- Deep Tunnels
- Bunkers

100S

- **Durable, Glare-Resistant Tablet Interface**

- Daylight readable, weatherproof Getac tablet interface
- High performance CPU enables real-time
- data processing
- Built-in 3D view capability
- WiFi supported
- USB, Ethernet, HDMI and Audio ports

Specification

Radar Controller Computer

Getac F110

•Operating System: Windows 7 or 10 64-bit
•Third-generation Intel® Core™ i5vPro™ Processor
•Durability: MIL-STD-810G, 4-foot drop and all-weather IP65 dust and water resistant design
•Display: 11.6 inch, HD daylight-readable, ten-point multi touch + digitizer
•I/O Interface: Ethernet Port, DC Power Port, 1 USB 3.0 Port, HDMI Port, WiFi and Bluetooth
•Expansion Options: MicroSD or second USB 2.0 port, RJ45 Ethernet, Dedicated GPS
•Communications: Wi-Fi, Bluetooth® and optional 4G LTE or 3G Gobi™

Software

•Microsoft Windows
•US Radar Control Software Including:

- System Configuration
- A Scan Display (Oscilloscope Mode)
- B Scan Display (Cross Sectional View)
- C Scan Display (3D) (Optional)
- Real Time Signal Processing
- Data Storage and Playback

Specification

System Scan Modes

- Maximum typical logging scan rate of 390 traces per second
- Trigger Modes: Free run, timed interval, shaft encoder, GPS, manual
- Nominal Sampling Rate: 550,000,000 samples per second
- Maximum Resolution: 100 Gigasamples per second
- Hardware Time Varying Gain: 45dB
- Software Time Varying Gain: 60dB
- Software Flat Gain: 60dB

System Environmental Specifications

- Temperature: -11 deg. To 50 deg. C
- Moisture and dust resistance: IP 65

Radar Hardware Specifications

- Sampling Interval: 10 ps-6.4 ns
- Pulse Repetition Frequency: 0.1-4 MHz-adjustable
- Samples per Trace: 2-8192, Adjustable
- Effective Bandwidth (typ.): >3 GHz
- Stacking: Automatic
- Transmitter: Broadband, 100 MHz Center Frequency
- Receiver: Direct RF Sampling