

100 SERIES GPR GEOTECHNICAL SYSTEM



The 100 series system offers the greatest realistic penetration that GPR can provide. It is used for locating deeper targets up to 100' deep. It is typically used to locate tunnels and for geophysical analysis.

The electronics are interchangeable with our other systems, so you can easily turn a 100 series system into one of our other configurations for other higher-resolution applications.



FEATURES

ANTENNA

- Sloped antenna design easily overcomes obstacles and rough terrain.

CONTROL UNIT

- Rugged, dedicated control unit
- Daylight readable screen
- User-friendly touchscreen interface
- High performance CPU for onboard, real-time processing
- 3D view capable
- 2 USB Ports

BATTERY PACKS

- 2 Battery packs included with each system
- Total runtime of 10 hours
- Typical lifetime of several years

GPS INTEGRATION (Optional)

- Optional GPS Pole mount
- Enables GPS to be centered over antenna
- Integrates with most high-end GIS and RTK units
- Optional integration with Google Earth

MILITARY GRADE CONNECTORS

- Never worry about loose connections
- Connectors Hold up in various weather conditions

AIRLESS TIRES

- Airless, solid tires require Zero maintenance
- Reduced friction means smooth and easy passes
- Helps antenna to overcome obstacles

ALUMINUM HANDLE

- Hybrid composite/aluminum pull handle
- Designed precisely to avoid GPS interference

SPECIFICATIONS

GETAC F110 RADAR CONTROLLER

- 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

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 Giga-samples per second
- Hardware Time Varying Gain: 45dB
- Software Time Varying Gain: 60dB
- Software Flat Gain: 60dB

ENVIRONMENTAL

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

RADAR HARDWARE

- Sampling Interval: 10 ps-6.4 ns (in 10ps increments)
- Pulse Repetition Frequency: 0.1-4 MHz-adjustable
- Samples per Trace: 2-8192, Adjustable
- Effective Bandwidth (typ.): >3 GHz
- Stacking: Automatic
- Transmitter: Broadband, Available as 250 or 270 MHz Center Frequency

SUPPORT

- Warranty: 2 Years Parts and Labour
- Complimentary telephone and email technical support