US RADAR GPR 100 S

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.

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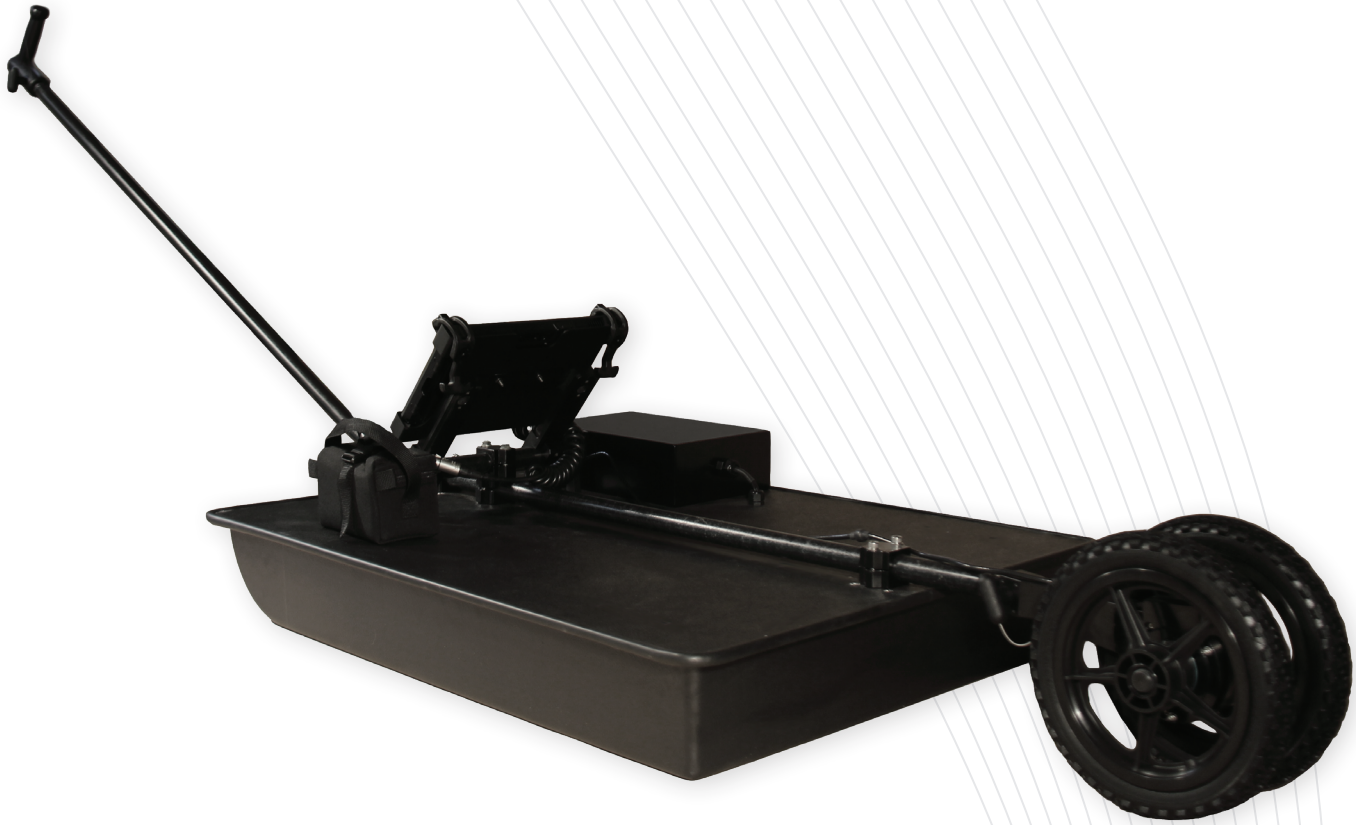

Featured Technologies:

- *Self-Calibrating*
- *SmartGain*
- *SmartStack*
- *StreetSmart on board processing*
- *Auto Config*
- *Broadband GPR*
- *Depth Calibration*

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US RADAR GPR 100 S

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)
- Real Time Signal Processing
- Data Storage and Playback

SYSTEM ENVIRONMENTAL SPECIFICATIONS

Temperature	-11 deg. To 50 deg. C
Moisture and dust resistance	IP 67
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Moisture and dust resistance	IP 67

RADAR HARDWARE SPECIFICATIONS

Sampling Interval	10 ps-6.4ns (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, 100MHz Center Frequency
Receiver	Direct RF Sampling

FEATURED TECHNOLOGIES

- Self-Calibrating
- SmartGain
- SmartStack
- StreetSmart on board processing
- Auto Config
- Broadband GPR
- Depth Calibration

SOME TYPICAL APPLICATIONS

Deep / Large Utilities	- Non-metallic pipes - Metallic pipes
Environmental	- Tanks - Rubble Limits - Voids
Geophysical	- Strata - Bedrock
Military	- Tunnels - Bunkers

Q10C Utility and Geotechnical Locating System

OVERVIEW

The Q10C is a high resolution 1000 or 900 MHz GPR Cart System for Bridge Deck Scanning and other high resolution/shallow applications.

Featured Hardware Technologies:

- SmartGain 2
- Folding Roiugh Terrain Cart
- Self-Calibration

Featured Software Technologies:

- SmartStack
- StreetSmart Real-Time Processing
- Auto Config
- Depth Calibration

Applications:

- Bridge Deck
- Concrete Scanning

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US RADAR GPR 100 S

SYSTEM SCAN MODES

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

SOFTWARE

Microsoft Windows

US Radar Control Software Including:

- System Configuration
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- C Scan Display (3D)
- Real Time Signal Processing
- Data Storage and Playback

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