

# Q10C

## UTILITY AND GEOTECHNICAL LOCATING SYSTEM



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



### FEATURES

#### ANTENNA

- Sloped antenna design easily glides over obstacles
- Optional GPS integration- can easily incorporate high-end GIS and RTK GPS units
- Military-grade connectors ensure secure connections between controller and antenna

#### 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

#### BATTERY PACKS

- Battery lasts a total runtime of 8 hours each
- Battery packs have lifespan 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

#### AIRLESS TIRES

- Airless, solid tires that cannot go flat
- Require no maintenance

#### EASY STORAGE

- Folding cart handle and controller tablet mount for easy storage

### 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 1000 or 900 MHz Center Frequency
- Receiver: Direct RF Sampling

#### SUPPORT

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