



HUMBOLDT

HC-2975 Quantum Mini Concrete Scanner



Quantum Mini Concrete Scanner

ASTM C803; BS 1881

With the benefits of deep lower frequency 1000 MHz antenna and a high resolution 2000 MHz antenna in a compact form factor, the Quantum Mini is suitable for ALL concrete scanning applications.

The dual frequency Quantum Mini by US Radar is the only concrete scanning GPR you will ever need. It features a 1000 MHz antenna for analyzing deep structures and targets under slabs. It also features a 2000 MHz antenna for high resolution analysis of fine targets. It is no longer necessary to have to choose antennas or find out afterwards that the scan should have been done with a different antenna. The Quantum Mini offers these benefits in a compact, wireless form factor that is perfect for scanning walls, floors, ceilings, etc.

All other concrete scanners on the market only offer ONE frequency or the other. This means the average user must sacrifice depth for high resolution scales, or vice versa.

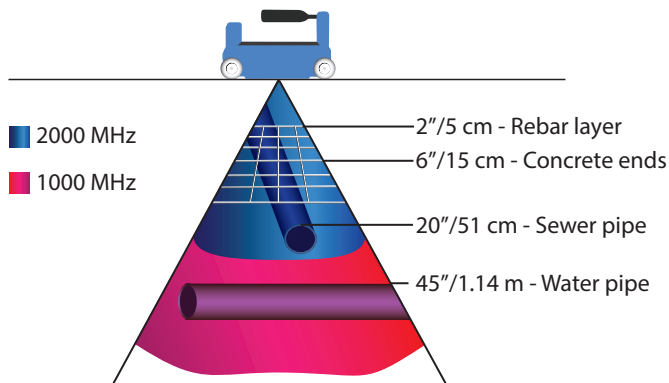
With both 1000 and 2000 MHz antennas, you get the detail associated with high resolution, while also being able to see far beyond the concrete slab. This ensures concrete can be properly laid and that a firm understanding of what lies underneath is achieved. Dual frequency gives users the assurance of a job well done.

The Quantum Mini offers a variety of software in on-board and desktop configurations including:

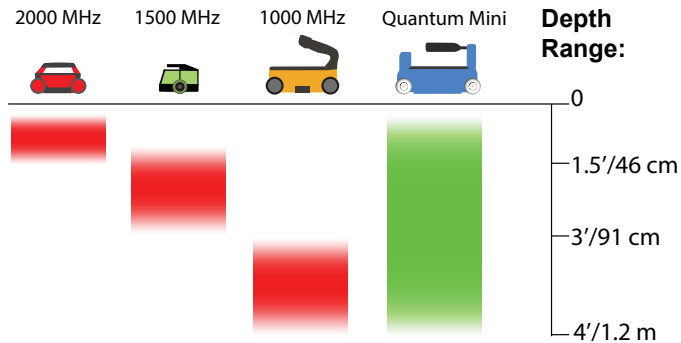
- GPS
- 3D
- Google Earth Integration
- Satellite Imaging Integration
- Report Generation
- and more!

The Quantum Mini is also compatible with a wide variety of third party processing software packages.

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GPR Antenna Types:



WHY DUAL FREQUENCY?

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Software:

Microsoft Windows
US Radar Control Software Including:

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

Specifications

Radar Controller Computer
Processor: Multi-core Intel Atom
Radar interface: proprietary military connector
32 GB Solid State Hard Drive
10.1 Inch daylight readable LCD Color display
Power Supply: 10.5-18V DC @ 25W
Operating System: Windows 7 Embedded
System Scan Modes
Trigger Modes: Free run, timed interval, shaft encoder, manual
Maximum Sampling Rate: 100 gigasamples per second
Nominal Sampling Rate: 650,000,000 samples per second
Gain: 45dB hardware, 90 dB Software, 60 dB Software Flat Gain
Radar Head Electronics Specifications
Sampling Interval: 10 ps-6.4 nsl
Time Range Adjustment Interval: 10 ps
Pulse Repetition Frequency: 0.1-4 MHz-adjustable
Sample per Trace: 2-8192, Adjustable
Effective Bandwidth (typ.): >4 GHz
Stacking: Automatic
Transmitter
Dual Frequency 1000 & 2000 MHz