

Freedom Data PC

The Freedom Data PC system provides the user with unmatched flexibility for stress-wave based condition evaluation of concrete, masonry, asphalt, wood and other construction materials, as well as seismic testing of soil and rock and virtually any general test and or data acquisition measurement. By simply changing out the instrument modules in the two built-in bays, the user can quickly switch between compatible tests using any of the available NDE Methods, while using similar software for data acquisition and analysis.

Possible Testing Packages

There are over a dozen add-on packages for NDT which can be used with the Freedom Data PC you can choose any combination of the packages with purchase and can upgrade your Freedom Data PC at anytime with the purchase of a new add-on NDT packages. Please see below for a full list of the add-on kits. Take special note of the unique packages only usable with the Freedom Data PC, Crosshole Sonic Logging, Crosshole/Downhole Seismic and Seismic Refraction/Seismic Reflection.

Pavement, Structural and Tunnel Systems

- Impact Echo
- Impact Echo Scanner (IES)
- Slab Impulse Response
- Ultrasonic Pulse Velocity (UPV)
- Surface Wave Testing (SASW)
- Multiple Impact Surface Waves (MISW)
- Resonance Testing

Foundation Depth and Integrity Systems

- Cross Hole Sonic Logging (CSL) - Unique to Freedom Data PC
- Sonic Echo/Impulse Response (SE/IR)
- Parallel Seismic (PS)
- Ultra-Seismic (US)

Geophysical Seismic Surface Wave Systems

- Crosshole/Downhole Seismic (CS/DS) - Unique to Freedom Data PC
- Seismic Refraction/Seismic Reflection (SRR) - Unique to Freedom Data PC
- Surface Wave Testing & Multiple Impact Surface Waves (SASW-G, MISW-G)

Features

- 8-10 Hour Life Internal Lithium Ion Rechargeable Batteries
- 14" Diagonal Backlit Screen (1366x768)
- Shock Mounted and Weather Resistant, Ruggedized Design and keyboard
- 10/100/1000MB LAN, USB, SVGA and Serial
- 3 x USB Ports
- SVGA port for external monitor
- Plug-In Multi-Channel Data/Source Modules
- National Instruments 1.25 MHz 16 channel PCI Data Acquisition Card Standard, Optional Cards Available
- Weight 10.5 kg Fully Loaded
- Windows XP or Windows 7 based low power 1.6Ghz Intel Atom Processor, 1GB DRAM
- 120 GB Hard Drive and External CD-RW [Larger available as an option]
- External 12 Volt Automotive Cigarette Lighter Adapter and switch mode AC adaptor

About PCTE

PCTE have over 30 years' experience in the measurement and testing of construction materials. PCTE can provide more than just the equipment, they can provide expert training. PCTE have a service centre in Sydney in which they can provide calibration, repairs and warranty repairs.

Other Equipment

PCTE supply three main ranges: NDT, Lab and Geotech Instrumentation.

NDT includes: Rebound Hammers, Covermeters, Ultrasonics, GPR, Corrosion Testing, Coating Testing and Foundation Testing

Lab includes equipment for: Concrete, Cement, Aggregate, Soil, Asphalt and Metal

Geotech Instrumentation includes: Strain Gauges, Piezometers, Inclometers, Extensometers, Tiltmeters, Load Cells and Dataloggers