

Freedom Data PC »

The Freedom Data PC represents the ultimate professional, versatile, battery powered NDT Platform, as it can be utilized for evaluation of structures/infrastructure and geophysical seismic engineering surveys. A custom module can be added to this platform for the purposes of Structural Health Monitoring, General Purpose Testing, and Data Acquisition for up to 16 Channels.



The Freedom DATA PC multiple system platform provides the user with unmatched flexibility for stress-wave based NDT condition evaluation of concrete, masonry, asphalt, wood and other construction materials, as well as seismic testing of soil and rock. This platform provides complete data processing capability for all test methods.

By simply changing out the custom instrument modules, the user can quickly switch between tests using any of the available test method options listed below, while using similar software for data acquisition and analysis.

Special Option! ...Internal 8B Modules for easy-to-switch signal conditioning for Structural Health Monitoring. Supports:
STRAIN ■ TEMPERATURE ■ PRESSURE ■ POTENTIOMETER ■ VIBRATION



Features:

- 14" XGA diagonal color backlit screen (1366 x 768) for sunlight/night viewing
- Windows XP or Windows 7 based low power 1.6 GHz Atom processor 1 GB DRAM
- 2 - Plug-In multi-channel data/source modules
- Minimum 160 GB hard drive
- ~6-8 hour run time internal rechargeable lithium ion batteries
- Shock mounted, weather resistant, field ruggedized design
- Weathertight mouse and keyboard
- 1 - 10/100/1000 MB LAN, USB 2.0 (3), RS-232 Serial & External SVGA Ports
- 1 - External XGA (1024 x 768) port for external monitor
- National Instruments 16 channel 1.25 MHz, 16 bit PCI data acquisition card standard, optional cards available
- Universal 110/220 VAC, 50/60 Hz power supply/charger
- External 12 volt automotive cigarette lighter adapter
- Weight: 23 lbs (10.5 kg)
- Dimensions: 18.5" x 14" x 6" (47 x 36 x 15 cm)

What Test Method Systems Are Available?

Foundation Depth & Integrity Test Systems »
1. Crosshole Sonic Logging
2. Tomographic Imaging Software
3. Sonic Echo/Impulse Response
4. Parallel Seismic
5. Ultraseismic
Structural, Pavement, & Tunnel Test Systems »
6. Impact Echo
7. Impact Echo Scanning
8. Spectral Analysis of Surface Waves - S
9. Multiple Impact Surface Waves (call for details)
10. Ultrasonic Pulse Velocity
11. Tomographic Velocity Imaging Software
12. Slab Impulse Response
13. Structural Health Monitoring/Custom Systems
Geophysical Test Systems »
14. Crosshole/Downhole Seismic
15. Spectral Analysis of Surface Waves - G
16. Seismic Refraction/Reflection
Lab Test Systems »
17. Resonance Testing
<i>1 Year Warranty on All Equipment</i>



If you already own an add-on system, please let Olson know as many of the components are common to other test methods.