## StrataVisor<sup>™</sup> NZXP Exploration Seismograph



- Get the best data: professional, ruggedized 24 bit seismic recorder suitable for all seismic surveys: reflection, refraction, downhole, VSP, marine or monitoring.
- Flexible configurations: houses from 3 to 64 channels. Expands seamlessly up to 1000 channels by connecting Geode in-field distributed modules or connecting other NZs.
- Works in all conditions: Military-grade CPU, shock-mounted chassis, reliable in harsh environments, operates in extreme temperatures, humidity and dust. Exceeds MIL 810E vibration spec.
- Widest bandwidth: 20 kHz bandwidth (0.02 µs to 16 ms sampling) for ultra-high resolution engineering surveys or recording low frequencies for earthquake monitoring.
- Field friendly: brilliant full-sun-visible color screen and built-in plotter - available also as rugged field computer without seismic channels.
- Put your client at ease: built-in geophone and line testing, full waveform noise monitor.
   Optional automated internal in-field instrument testing and enhanced geophone and line diagnostics.
- Use any source: Sub-sample trigger ensures accurate stacking; hardware correlator elimin– ates delays with Vibroseis or pseudo-random Mini-Sosie sources.
- Built-in software to facilitate ALL applications:
- Reflection (included)
- Refraction (included)
- Downhole, crosshole, vertical seismic profiling
- Event triggering for earthquakes, microseismic,
- blast monitoring and surveillance
  Marine survey management
- Continuous recording, GPS synchronization
- Vibroseis, pseudo-random sources
- Passive and active surface-wave surveys

## NEW!

- Windows XP
- USB ports
- Faster CPU
- New printer
- More memory
- 2-year warranty
- Built-in networking
- Temperatures to 60°C
- Low-power color screen
- Enhanced line and geophone testing

The StrataVisor NZXP is a high-performance exploration seismic system in a compact, weatherproof chassis. The NZXP can operate as a field PC, as a stand-alone seismic recorder with 3 to 64 internal channels. The NZXP expands easily to larger channel systems by connecting other NZ seismographs or lightweight Geode modules. This flexibility lets you collect data for all applications in all environments – you can even rent extra channels when needed.

Examine your data at all phases of acquisition to ensure data quality. Customizable windows show real-time noise monitor, amplitude spectra and seismic traces so you see problems instantly. A log file keeps track of all parameter changes and customizable alarms alert you to critical issues. You can even do preliminary processing in the field with industry-leading reflection, refraction and tomography software included with every system.

The StrataVisor NZXP console includes a brilliant daylightvisible color screen, waterproof keypad and built-in printer. Low-power circuitry and a standby mode extend battery life and reduce weight.

The StrataVisor NZ is backed by a 2 year parts and labor warranty. All this from a company with factory trained service centers world wide and over 35 years of superior support to geoscience professionals.





<ul> <li>alose Field computer or controller for Geode distributed modules (in stammed stammed 3, 5, 8, 12 or 10 or 64 built-in channels (in schamel increments)</li> <li>Delay: 0 to 100 sec in 1 sample steps.</li> <li>Auxiliary Channels: All channels can be rolled through total (hannels can be rolled) (hannels can be rolled) (han</li></ul>	<ul><li>Configurations:</li><li>Lightweight field-rugged PC with no seismic channels for use as a stand-</li></ul>	Continuous Recording: Available for vibration monitoring.
(in 8 channel increments)       Arclitary Channels: All channels can be programmed as either AUX or DATA.         Concert minipic M2X's and operate from a single keypad       Arclitary Channels: All channels can be programmed as either AUX or DATA.         Consert minipic M2X's and operate from a single keypad       Arclitary Channels: All channels can be programmed as either AUX or DATA.         CDP Roll Along: Software selectable channels can be rolled through total thread channels and up to 4 lines of Code modules. Total number of channels       Instrument Tests (Requires internal test colliance): Noise, DC offect, gain and phase malinity, distribution, handwidth, timing accuracy: crossfield.         Data formatics       20 minited marks, and the Cystal Semiconductor signa-delta converters and Geophone Tests:         Distortion:       0.0005% @ 2 ns. 1.75 to 208 Hz.         Bandwidth:       1.75 Hz to 20 Hz. Law corner frequency option available.         Cross Talk:       1.25 dB at 23.5 Hz, 24 dB, 2.3 ms.         Noise Floor:       0.000 Jr.         Maximum Ipapetance:       20 kDM, 0.02 µf.         Presupplifter Gines. Standard factory configuration is 24 and 56 db, selectable and 24 selectable and 24 selectable and 25 and 25 mole thread.         Ariburg Eleverse:       0.01 (17, 10 Hz, 25, 35, 00, 100, 140, 200, 280, 400 Hz, 24 dB; corres.         Low Cut OUT, 10, 15, 25, 55, 00, 100, 102, 024, 000 Hz, 24 dB; corres.       Dista Storage: Storage starte infre decords in Gain miners.         Soninger Finiteres:       0.02 (17, 10	<ul><li>alone field computer or controller for Geode distributed modules</li><li>Integrated seismic recorder - add 3, 6, 8, 12 or 16 to 64 built-in channels</li></ul>	<b>Delay:</b> 0 to 100 sec in 1 sample steps.
<ul> <li>Runs Windows,<sup>19</sup> XP operating system and includes all software for controlling internal channels of Greed modules. Total number of channels initiated only by practical survey requirements.</li> <li>AD Conversion: 24-bit result using Crystal Semiconductor sigma delta converters and Genometrics proprietary overs-sampling.</li> <li>Dynamic Range: 144 dB (system), 110 dB (instantaneous) al 2 ms, 24 dB.</li> <li>Distortion: 0.0005% @ 2 ms, 1.75 to 208 Hz.</li> <li>Bandwidth: 1.75 Hz to 20 kHz. Low corner frequency option available.</li> <li>Common Mode Rejection: &gt; 100dB at &lt;= 100 Hz, 56 dB.</li> <li>Cross Talk: -125 dB at 23.5 Hz, 24 dB, 2 ms.</li> <li>Noke Floor: 0.20 µV, RFI at 2 ms, 36 dB, 1.75 to 208 Hz.</li> <li>Stacking Trigger Accuracy: 1/32 of sample interval.</li> <li>Maximum Input Signal: 2.8V PP, 0.4B, 177 mV PP, 24 dB.</li> <li>Input Inpedance: 20 KOhn. 0.02 µf.</li> <li>Preamplifter Gains: Standard factory configuration is 24 and 56 db, selectabil: 1 more floating and mones. Full desktop versions of the software schedabil: 2 math discussion molecular analysis and may require sanching a despond of more channels lossed in four channels lossed an incread lossed on instrument are configured for in-field analysis and may require subjection modeling and analysis of software from OYO winsis forware for on OYO winsis devices. Records in SEG2, SEGY or SEGD.</li> <li>Refraction software packages: an stalled on instrument are configured for in-field analysis and may require subjection by To compatible potents: Notice: See spattar upolications for the record results.</li> <li>Subjection Filters:</li> <li>Low cur OUT, 10, 15, 25, 35, 50, 70, 100, 140, 200, 280, 400 Hz, 24 dB or creater dementer lossed in section and lossed in continuent and lossed in real boots.</li> <li>Subjection Filters:</li> <li>Low cur OUT, 10, 15, 25, 35, 50, 70, 100, 140, 200, 280, 400 Hz, 24 dB or creater frequency.</li> <li>High Cur OUT, 20, 500 on 1000 Hz, 2</li></ul>	<ul> <li>(in 8 channel increments)</li> <li>Connect multiple NZ's and operate from a single keypad</li> </ul>	Auxiliary Channels: All channels can be programmed as either AUX or DATA.
<ul> <li>Instrument Tests (Requires internal test cociliator): Noise DC offset, gain and phase similarity, distortion, bandwidth, timing accuracy, crossfeed.</li> <li>Dynamic Range: 144 dB (system), 110 dB (instantaneous) at 2 ms, 24 dB.</li> <li>Distortion: 0.0005% @ 2 ms, 1.75 to 208 Hz.</li> <li>Bandwidht: 1.75 Hz to 20 kHz. Low corner frequency option available.</li> <li>Comson Mode Rejection: &gt; 100dB at &lt;= 100 Hz, 36 dB.</li> <li>Cross Talk: -125 dB at 23.5 Hz, 24 dB, 2 ms.</li> <li>Noise Floor: 0.20 µV, RFI at 2 ms, 36 dB, 1.75 to 208 Hz.</li> <li>Stacking Trigger Accuracy: 1/32 of sample interval.</li> <li>Maximum Input Signal: 2.8V PP, 0 dB, 177 mV PP, 24 dB.</li> <li>Input Impedance: 20 kOhm, 0.02 µf.</li> <li>Preempfifer Gines: Standard factory: configuration is 24 and 36 db, selectabli in software. Optionally, can be jumpered for software selectable 12 and 24 dB or software. Quintically, -3 dB at 83% of Nyquist down 90 dB.</li> <li>Acquisitin Filters: Low Cut 100 LT, 10, 15, 25, 35, 50, 70, 100, 140, 200, 280, 400 Hz, 24 dB order.</li> <li>Corvenantically, -3 dB at 83% of Nyquist down 90 dB.</li> <li>Acquisitin Filters: Cutatomer line frequency. Low Cutour 22, 00, 01 100 Hz, 24 dB order.</li> <li>Cutourner filter frequency. Unit the 50 dB rejection bandwidd?. No che cutour 23, 50, 00, 100, 140, 200, 280, 400 Hz, 24 dB order.</li> <li>Cutourner filter frequency. High CutoU 12, 20, 500 rol 1000 Hz, 24 dB order.</li> <li>Cutourner filter frequency. Unit the 50 dB rejection bandwidd?. No che cutour analybe to the contact closure. Software external 12 inch continuous thermal plotters: filter frequency. Unit do to affect the recorded results.</li> <li>Sample Interval: 0.02, 0.03125, 0.025, 0.12, 0.2, 0.5, 1.0, 2.0, 4, 0, 80, 160</li> <li>Correlation: Initi-in inity-hase samalario, 65, 55 sumples optional.</li> <li>Pretrigger Data: U to foull record length.</li> <li>Triggering: Postive TIL, negative TIL, negative TIL, negat</li></ul>	Runs Windows <sup>TM</sup> XP operating system and includes all software for controlling internal channels and up to 4 lines of Geode modules. Total number of channels limited only by practical survey requirements.	<b>CDP Roll Along:</b> Software selectable channels can be rolled through total channels.
Dramic Range: 144 dB (system), 110 dB (instantaneous) at 2 ms, 24 dB.Line and Geophone Tests: waterAll syle noise monit of frequency, damping and line resistance. Pull waveform waterAll syle noise monit of frequency, damping and line resistance. Pull waveform waterAll syle noise monit of frequency, damping and line resistance. Pull waveform waterAll syle noise monit of frequency, damping and line resistance. Pull waveform waterAll syle noise monit of frequency, damping and line resistance. Pull waveform waterAll syle noise monit of frequency, damping and line resistance. Pull waveform waterAll syle noise monit of frequency damping and line resistance. Pull waveform waterAll syle noise monit of frequency damping and line resistance. Pull waveform waterAll syle noise monit of frequency damping and line resistance. Pull waveform waterAll syle noise monit of frequency damping and line resistance. Pull waveform waterAll syle noise monit of frequency damping and line resistance. Pull waveform the syle noise monit of frequency damping and line resistance. Pull waveform the syle noise monit of frequency damping and line resistance. Pull waveform the syle noise monit of frequency damping and line resistance. Pull waveform the following 2 <sup>ad</sup> party applications of monit of the channel blocks as a single fixed gain of 0 dB for high- bins offware concontal capacity and monit. Pull destop versions of these packages. monitories dB or active of the form Geometrics. See separate publications for more detail on software packages. Instand and fixed on in-Field and bioks as a single fixed gain of 0 dB for high- bins offware packages.Preamplifer Game: Standar facted gain of 0 dB for high- long davies.Paters: Bull-in 4" thermal plotter. Drives a variety of NT compatible plotters including printex 4. S and 2 in or ontime and the or or external USB or network devices. Records in SEG2 SEGY or	<b>A/D Conversion</b> : 24-bit result using Crystal Semiconductor sigma-delta converters and Geometrics proprietary over-sampling.	<b>Instrument Tests</b> (Requires internal test oscillator): Noise, DC offset, gain and phase similarity, distortion, bandwidth, timing accuracy, crossfeed.
<ul> <li>Distortion: 0.0005% @ 2 ms, 1.75 to 208 Hz.</li> <li>Bandwitdh: 1.75 Hz to 20 kHz. Low corner frequency option available.</li> <li>Common Mode Rejection: &gt; 100dB at &lt;= 100 Hz, 36 dB.</li> <li>Cross Talk: -125 dB at 23.5 Hz, 24 dB, 2 ms.</li> <li>Noise Floor: 0.20 µV, RFI at 2 ms, 36 dB, 1.75 to 208 Hz.</li> <li>Stacking Trigger Accuracy: 1/32 of sample interval.</li> <li>Stacking Trigger Accuracy: 1/32 of sample interval.</li> <li>Stacking Trigger Accuracy: 1/32 of sample interval.</li> <li>Anti-alias Filters: Standard factory configuration is 24 and 36 db, selectable in software. Optionally, center 140 and 24 dB or a bijmpered for software selectable 12 and 24 dB or a bijmpered for software selectable 12 and 24 dB or a bijmpered for software selectable 12 and 24 dB or a bijmpered for software selectable 12 and 24 dB or a bijmpered for software selectable 12 and 24 dB or a bijmpered for software selectable 12 and 24 dB or a bijmpered for software selectable 12 and 24 dB or a bijmpered for software selectable 12 and 24 dB or a bijmpered for software selectable 12 and 24 dB or a bijmpered for software selectable 12 and 24 dB or a bijmpered for software selectable 12 and 24 dB or a bijmpered for software selectable 12 and 24 dB or a bijmpered for software selectable 12 and 24 dB or a bijmpered for software selectable 12 and 24 dB or a bijmpered for software selectable 12 and 24 dB or a bijmpered for software selectable 12 and 24 dB or a bijmpered for software selectable 12 and 24 dB or a bijmpered for software selectable 12 and 24 dB or a bijmysing dmay require tatching a keyboard and mouse. Full desktop were software packages are available as an any iso and may sist and may software packages.</li> <li>Data Storage: Stores data on internal band drive or external USB or network devices. Records in SEG2, SEGY or SEGD.</li> <li>Detters: EuliLica + Thermal Differ.</li> <li>Detters: Sublici in filters: a salo be applied to the data with any user-defined cormet f</li></ul>	Dynamic Range: 144 dB (system), 110 dB (instantaneous) at 2 ms, 24 dB.	Line and Geophone Tests: • Built-In: natural frequency, damping and line resistance. Full waveform
Bandwidth: 1.75 Hz to 20 kHz. Low corner frequency option available.       Common Mode Rejection: > 100dB at <= 100 Hz, 36 dB.	<b>Distortion:</b> 0.0005% @ 2 ms, 1.75 to 208 Hz.	<ul> <li>• Optional (requires internal test-oscillator: phase similarity, cross-talk, impedance, distortion and leakage (leakage may require senarate ground)</li> </ul>
Common Mode Rejection: > 100dB at <= 100 Hz, 36 dB.System Software: Runs under Windows TM XP operating system. Uses Geometrics MGOS software to control acquisition on internal channels and up to 4 lines of external channels housed in Geode distributed modules. System includes the following 2th party applications software:Stacking Trigger Accuracy: 1/32 of sample interval.Signal: 2.8V PP, 0 dB, 177 mV PP, 24 dB.Input Impedance: 20 kOhm, 0.02 µf.Signal: 2.8V PP, 0 dB, 177 mV PP, 24 dB.Preampliffer Gains: Standard factory configuration is 24 and 36 db, selectable can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or cotare, Buttervorth.Potters: Built-in 4" thermal plotter. Drives a variety of NT compatible plotters including Printrex 4, 8 and 12 inch continuous thermal plotters.Acquisition Filters: Low Cut: OUT, 10, 15, 25, 35, 50, 70, 100, 140, 200, 280, 400 Hz, 24 dB, cotave, Buttervorth.Potters: Built-in 4" thermal plotter. Drives a variety of NT compatible plotters including Printrex 4, 8 and 12 inch continuous thermal plotters.Display filter frequencies available as an option. Display filters: can also be applied to the data with any user-defined corere frequency, but	Bandwidth: 1.75 Hz to 20 kHz. Low corner frequency option available.	Data Formats: SEG-2, SEG-D and SEG-Y.
Cross Talk: -125 dB at 23.5 Hz, 24 dB, 2 ms.       Sige Floor: 0.20 µV, RFI at 2 ms, 36 dB, 1.75 to 208 Hz.       Sige Floor: 0.20 µV, RFI at 2 ms, 36 dB, 1.75 to 208 Hz.         Stacking Trigger Accuracy: 1/32 of sample interval.       Geometrics MGOS software to control acquisition on interraid hannels and up to 4 lines of external channels modeling and analysis software: For Me Kansas Geological Survey         Stacking Trigger Accuracy: 1/32 of sample interval.       SIPOC refraction software: For Me Kansas Geological Survey         Maximum Input Signal: 2.8V PP, 0 dB, 177 mV PP, 24 dB.       SIPOC refraction software from Rimrock Geophysics         Preampliffer Gains: Standard factory configuration is 24 and 36 db, selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for software selectable 12 and 24 dB or can be jumpered for 100, 200, 280, 400 Hz, 24	<b>Common Mode Rejection:</b> > 100dB at <= 100 Hz, 36 dB.	
<ul> <li>Noise Floor: 0.20 µV, RFI at 2 ms, 36 dB, 1.75 to 208 Hz.</li> <li>Stacking Trigger Accuracy: 1/32 of sample interval.</li> <li>Maximum Input Signal: 2.8V PP, 0 dB, 177 mV PP, 24 dB.</li> <li>Input Impedance: 20 kOhm, 0.02 µf.</li> <li>Preamplifier Gains: Standard factory configuration is 24 and 36 db, selectable root and factory configuration is 24 and 36 db, selectable root and provide generics.</li> <li>Refraction software root with Sinual activity of software selectable 12 and 24 dB certable 12 and 24 dB certa</li></ul>	<b>Cross Talk:</b> -125 dB at 23.5 Hz, 24 dB, 2 ms.	System Software: Runs under Windows <sup>44</sup> XP operating system. Uses Geometrics MGOS software to control acquisition on internal channels and up to 4 lines of external channels housed in Geode distributed modules. System includes
Stacking Trigger Accuracy: 1/32 of sample interval.SIPQC refraction software from Rimrock Geophysics • SeisImager refraction modeling and analysis software from OO • SeisImager from the Knass Geological Survey • SeisImager SW surface wave software from Comments.Input Impedance: 20 kOhm, 0.02 µf.Preampliffer Gains: Standard factory configuration is 24 and 36 db, selectable 12 and 24 dB ocan be jumpered in four channel blocks as a single fixed gain of 0 dB for high- voltage devices.Refraction software packages installed on instrument are configured for in-field analysis and may require attaching a keyboard and mouse. Full desktop versions of the analysis and may require attaching a keyboard and mouse. Full desktop versions of the analysis and may require attaching a keyboard and mouse. Full desktop versions of the analysis and may require attaching a keyboard and mouse. Full desktop versions of 	Noise Floor: 0.20 $\mu$ V, RFI at 2 ms, 36 dB, 1.75 to 208 Hz.	the following 2 <sup>nd</sup> party applications software:
<ul> <li>Maximum Input Signal: 2.8V PP, 0 dB, 177 mV PP, 24 dB.</li> <li>Input Impedance: 20 kOhm, 0.02 µf.</li> <li>Preamplifier Gains: Standard factory configuration is 24 and 36 db, selectable is oftware. Optionally, can be jumpered for software selectable 12 and 24 dB or can be jumpered in four channel blocks as a single fixed gain of 0 dB for high-voltage devices.</li> <li>Anti-alias Filters: Set automatically, -3 dB at 83% of Nyquist down 90 dB.</li> <li>Acquisition Filters: <ul> <li>Low Cut: OUT, 10, 15, 25, 35, 50, 70, 100, 140, 200, 280, 400 Hz, 24 dB/ otcave.</li> <li>Customer filter frequencey.</li> <li>High Cut: OUT, 250, 500 or 1000 Hz, 24 dB/ otcave.</li> <li>Customer filter frequences available as an option.</li> <li>Display litters can also be applied to the data with any user-defined cormer frequency.</li> <li>High Cut: OUT, 250, 000 or 1000 Hz, 24 dB/ otcave.</li> <li>Customer filter frequencies available to the data with any user-defined cormer frequency.</li> <li>High Cut: OUT, 250, 000 or 1000 Hz, 24 dB/ otcave.</li> <li>Customer filter frequencies available to the data with any user-defined cormer frequency.</li> <li>Sample Interval: 0.02, 0.03125, 0.0625, 0.125, 0.25, 0.5, 1.0, 2.0, 4.0, 8.0, 160 ms.</li> </ul> </li> <li>Correlation: Built-in high-speed hardware correlator for Vibroseis. Optional jilot conditioning for acquisition of pseudo-random (MiniSosie) sources.</li> <li>Record Length: 16,384 samples standard, 65,536 samples optional.</li> <li>Pre-trigger Data: Up to full record length.</li> <li>Intelligent Self-Trigger: Available for earthquake and vibration monitoring.</li> </ul>	Stacking Trigger Accuracy: 1/32 of sample interval.	<ul> <li>SIPQC refraction software from Rimrock Geophysics</li> <li>SeisImager refraction modeling and analysis software from OYO</li> </ul>
Input Impedance: 20 kOhm, 0.02 µf.Preamplifier Gains: Standard factory configuration is 24 and 36 db, selectable in software. Optionally, can be jumpered for software selectable 12 and 24 dB or can be jumpered in four channel blocks as a single fixed gain of 0 dB for high- voltage devices.Refraction software packages installed on instrument are configured for in-field analysis and may require attaching a keyboard and mouse. Full desktop versions of these packages.Anti-alias Filters: Low Cut: OUT, 10, 15, 25, 35, 50, 70, 100, 140, 200, 280, 400 Hz, 24 dB/ octave, Butterworth. Notch: 50, 60, 150, 180 Hz and OUT, with the 50 dB rejection bandwidt $2\%$ of center frequency. High Cut: OUT, 250, 500 or 1000 Hz, 24 dB/ octave. Cut: outer filter frequencies available as an option. Display filters can also be applied to the data with any user-defined cormer frequency, but do not affect the recorded results.Power: 30W plus 0.65W/channel during acquisition. Standby mode reduces channel power consumption by 70%. Requires external 12V supply.Correlation: Built-in high-speed hardware correlator for Vibroseis. Optional pilot conditioning for acquisition of pseudo-random (MiniSosie) sources.Physical: Field Pc with no seismic channels: 10.5°L x 18°W x 13°D (27cm L x 45.7 cm W x 46 cm D), weighs 27 1b (12.3 kg) Seismic recorder with 3-64 internal channels: 10.5°L x 18°W x 21 °D (26.7 m L x 34 cm W x 33 cm D), weighs 28 1b (18 kg)Pre-trigger Data: Up to full record length. Intelligent Self-Trigger: Available for earthquake and vibration monitoring.Physical Seismic recorder with 3-64 internal channels: 10.5°L x 18°W x 21 °D (26.7 m L x 34 cm W x 33 cm D), weighs 28 1b (18 kg)	Maximum Input Signal: 2.8V PP, 0 dB, 177 mV PP, 24 dB.	<ul> <li>WinSeis-Turbo reflection software from the Kansas Geological Survey</li> <li>SeisImager SW surface wave software from Geometrics</li> </ul>
<ul> <li>Preamplifier Gains: Standard factory configuration is 24 and 36 db, selectable in software. Optionally, can be jumpered for software selectable 12 and 24 dB or can be jumpered in four channel blocks as a single fixed gain of 0 dB for high-voltage devices.</li> <li>Anti-alias Filters: Set automatically, -3 dB at 83% of Nyquist down 90 dB.</li> <li>Acquisition Filters: <ul> <li>Low Cut: OUT, 10, 15, 25, 35, 50, 70, 100, 140, 200, 280, 400 Hz, 24 dB/ octave. Butterworth.</li> <li>Notch: 50, 60, 150, 180 Hz and OUT, with the 50 dB rejection bandwidth 2% of center frequency.</li> <li>High Cut: OUT, 250, 500 or 1000 Hz, 24 dB/ octave.</li> <li>Customer filter frequencies available as an option.</li> <li>Display filters can also be applied to the data with any user-defined corner frequency, but do not affect the recorded results.</li> </ul> </li> <li>Sample Interval: 0.02, 0.03125, 0.0625, 0.125, 0.25, 0.5, 1.0, 2.0, 4.0, 8.0, 16.0 ms.</li> <li>Correlation: Built-in high-speed hardware correlator for Vibroseis. Optional jold conditioning for acquisition of pseudo-random (MiniSosie) sources.</li> <li>Record Length: 16,384 samples standard, 65,536 samples optional.</li> <li>Pre-trigger Data: Up to full record length.</li> <li>Intelligent Self-Trigger: Available for earthquake and vibration monitoring.</li> </ul>	Input Impedance: 20 kOhm, 0.02 µf.	Refraction software packages installed on instrument are configured for in-field
Anti-alias Filters:       Set automatically, -3 dB at 83% of Nyquist down 90 dB.         Acquisition Filters:       Low Cut: OUT, 10, 15, 25, 35, 50, 70, 100, 140, 200, 280, 400 Hz, 24 dB/ octave.         Notch:       Dotters: Built-in 4" thermal plotter. Drives a variety of NT compatible plotters including Printrex 4, 8 and 12 inch continuous thermal plotters.         Notch:       Dotters: Built-in 4" thermal plotter. Drives a variety of NT compatible plotters including Printrex 4, 8 and 12 inch continuous thermal plotters.         Notch:       Dotters: Built-in 4" thermal plotter. Drives a variety of NT compatible plotters including Printrex 4, 8 and 12 inch continuous thermal plotters.         Customer filter frequency.       Triggering: Positive TTL, negative TTL or contact closure, software adjustable threshold. Will also trigger on events in the data in real time.         Power:       30W plus 0.65W/channel during acquisition. Standby mode reduces channel power consumption by 70%. Requires external 12V supply.         Environmental:       Boots from +5°C to 40°C. Operates from -5°C to 40°C. Extended temperature version available to +60°C. Operates in a light rain, water resistant with cover closed. Passes MIL810E/F vibration test.         Pore-trigger Data:       Up to full record length.         Intelligent Self-Trigger:       Available for earthquake and vibration monitoring.	<b>Preamplifier Gains:</b> Standard factory configuration is 24 and 36 db, selectable in software. Optionally, can be jumpered for software selectable 12 and 24 dB or can be jumpered in four channel blocks as a single fixed gain of 0 dB for high-	analysis and may require attaching a keyboard and mouse. Full desktop versions of these packages are available either from Geometrics. See separate publications for more detail on software packages.
Acquisition Filters: Low Cut: OUT, 10, 15, 25, 35, 50, 70, 100, 140, 200, 280, 400 Hz, 24 dB/ octave, Butterworth. Notch: 50, 60, 150, 180 Hz and OUT, with the 50 dB rejection bandwidth 2% of center frequency. High Cut: OUT, 2,50, 500 or 1000 Hz, 24 dB/ octave. Customer filter frequencies available as an option. 	Anti-alias Filters: Set automatically, -3 dB at 83% of Nyquist down 90 dB.	<b>Data Storage:</b> Stores data on internal hard drive or external USB or network devices. Records in SEG2, SEGY or SEGD.
<ul> <li>Notch: 50, 60, 150, 180 Hz and OUT, with the 50 dB rejection bandwidth 2% of center frequency. High Cut: OUT, 250, 500 or 1000 Hz, 24 dB/ octave. Customer filter frequencies available as an option. Display filters can also be applied to the data with any user-defined corner frequency, but do not affect the recorded results.</li> <li>Sample Interval: 0.02, 0.03125, 0.0625, 0.125, 0.25, 0.5, 1.0, 2.0, 4.0, 8.0, 16.0 ms.</li> <li>Correlation: Built-in high-speed hardware correlator for Vibroseis. Optional pilot conditioning for acquisition of pseudo-random (MiniSosie) sources.</li> <li>Record Length: 16,384 samples standard, 65,536 samples optional.</li> <li>Pre-trigger Data: Up to full record length.</li> <li>Intelligent Self-Trigger: Available for earthquake and vibration monitoring.</li> <li>Triggering: Positive TTL, negative TTL or contact closure, software adjustable threshold. Will also trigger on events in the data in real time.</li> <li>Power: 30W plus 0.65W/channel during acquisition. Standby mode reduces channel power consumption by 70%. Requires external 12V supply.</li> <li>Environmental: Boots from +5°C to 40°C. Operates from -5°C to 40°C. Extended temperature version available to +60°C. Operates in a light rain, water resistant with cover closed. Passes MIL810E/F vibration test.</li> <li>Physical: Field PC with no seismic channels: 10.5°L x 18°W x 13°D (27cm L x 45.7 cm W x 46 cm D), weighs 27 lb (12.3 kg)</li> <li>Seismic recorder with 3-64 internal channels: 10.5°L x 18°W x 21 °D (26.7 cm L x 34 cm W x 33 cm D), weighs 38 lb (18 kg)</li> <li>Warranty: Two year parts and labor. Extended warranty available.</li> </ul>	Acquisition Filters: Low Cut: OUT, 10, 15, 25, 35, 50, 70, 100, 140, 200, 280, 400 Hz, 24 dB/	<b>Plotters:</b> Built-in 4" thermal plotter. Drives a variety of NT compatible plotters including Printrex 4, 8 and 12 inch continuous thermal plotters.
<ul> <li>Power: 30W plus 0.65W/channel during acquisition. Standby mode reduces channel power consumption by 70%. Requires external 12V supply.</li> <li>Power: 30W plus 0.65W/channel during acquisition. Standby mode reduces channel power consumption by 70%. Requires external 12V supply.</li> <li>Environmental: Boots from +5°C to 40°C. Operates from -5°C to 40°C. Extended temperature version available to +60°C. Operates in a light rain, water resistant with cover closed. Passes MIL810E/F vibration test.</li> <li>Physical: Field PC with no seismic channels: 10.5°L x 18°W x 13°D (27cm L x 45.7 cm W x 46 cm D), weighs 27 lb (12.3 kg)</li> <li>Seismic recorder with 3-64 internal channels: 10.5°L x 18°W x 21 °D (26.7 cm L x 34 cm W x 33 cm D), weighs 38 lb (18 kg)</li> <li>Warranty: Two year parts and labor. Extended warranty available.</li> </ul>	Notch: 50, 60, 150, 180 Hz and OUT, with the 50 dB rejection bandwidth 2% of center frequency.	<b>Triggering</b> : Positive TTL, negative TTL or contact closure, software adjustable threshold. Will also trigger on events in the data in real time.
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Record Length: 16,384 samples standard, 65,536 samples optional.Seismic recorder with 3-64 internal channels: 10.5"L x 18"W x 21 "D (26.7cm L x 34 cm W x 33 cm D), weighs 38 lb (18 kg)Pre-trigger Data: Up to full record length.Warranty: Two year parts and labor. Extended warranty available.Intelligent Self-Trigger: Available for earthquake and vibration monitoring.NZ7.pub 9/1/05	<b>Correlation:</b> Built-in high-speed hardware correlator for Vibroseis. Optional pilot conditioning for acquisition of pseudo-random (MiniSosie) sources.	<b>Physical:</b> Field PC with no seismic channels: 10.5"L x 18"W x 13"D (27cm L x 45.7 cm W x 46 cm D), weighs 27 lb (12.3 kg)
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