

VIBER X5™

SMART PRODUCTS FOR SMART PEOPLE

The VIBER X5™ is the latest evolution building on the popular Easy Viber™. The VIBER X5™ combines the extreme performance of the Texas Instrument DSP processor with the experience and popular features of the Easy Viber™, all in a rugged heavy duty casing!



VIBER X5™

- Easy operation
- Versatile and innovative
- Super Fast and Powerful
- Vast array of accessories
- Rugged and tight (IP65)
- Unbeatable price vs.
performance ratio





VIBER X5™

Some of all user friendly features customers like about the VIBER X5™;

"The VIBER X5™ starts within 2 seconds and always at the point or place where I stopped working"

"The route window is very well thought through and gives all information clear and visible"

"The situation based help menu give me fast response when I've forgotten something"

"With the internal non-contact IR transducer there is now no reason to not measure temperature in route"

"We can use the same route for the VIBER X5™ as for the Easy Viber™ and X-Viber™"

Sample of Accessories:

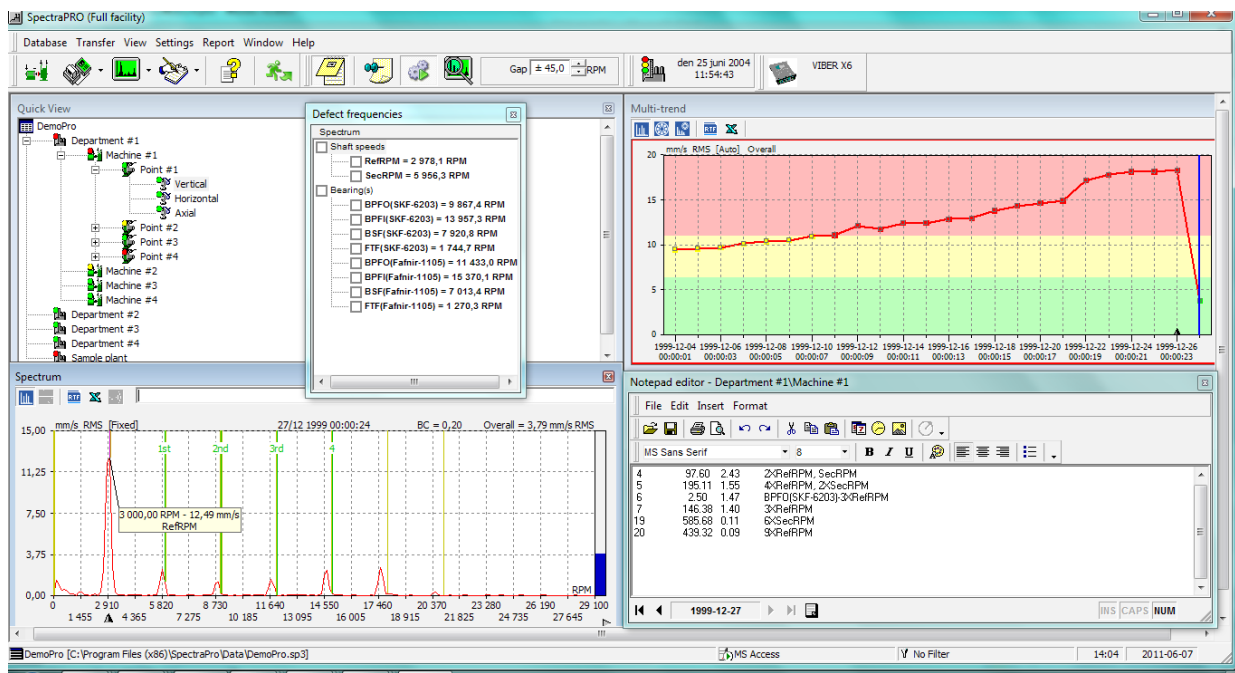
Current Clamp. Indicate the speed of the engine without getting close to rotating parts. Upgrade and do Motor Current Signature Analysis (MCSA)

Balancing kit. Including External laser tacho (0,5 to 250 000 RPM with 5m cable, 2 pcs 5m extension cables for transducers, fast and easy to setup magnet holder for the tacho, and a pocket scale. The VIBER X5™ case is already precut to fit the Balancing kit items.)

SpectraPro analyzing and route Software

VIBER X5™ is designed to work together with SpectraPro, PC software for advanced vibration analysis.

- Create routes and set alarm levels. VIBER X5™ may be used for the same routes as EasyViber™ and X-Viber™.
- Simple database structure with templates and pictures.
- Large bearing database (over 6000 pcs) with defect frequencies. Easy to add user specific bearings.
- Quick view, store your own array of windows for fast viewing.
- Waterfall, last 5 spectra or choose your own.
- Automatic reports, generate probable fault causes and work reports with a click of a button.
- Network, multi user.
- Work with different level of access, let your colleagues, supervisor, customer etc have access to the plant status via low cost (non editable) graphical interface.
- And much, much more!





SpectraPro analyzing and route Software

The image displays a collage of screenshots from the SpectraPro software interface, illustrating its capabilities in vibration analysis and route management. The screenshots are arranged in a layered, overlapping fashion to show different functional areas:

- Main Menu:** Shows the primary navigation options including Route, Balancing, Files, Settings, Connection, Signal Gen, and Help. It also displays system information like battery level (9.9 V, 9%) and date/time (07/06/11-14:56).
- Spectra Measurement:** Displays real-time spectral data for Triaxial, NONE, and External Tacho. It shows RMS values (e.g., 25.44, 39.79) and a large RPM readout of 3331 RPM. The interface includes zoom and cursor controls.
- Amplitude/Phase Measurement:** Shows RMS values for VIB 1 and VIB 2 (0.00 mm/s RMS) along with phase indicators (0°).
- Temperature Measurement:** Displays a current temperature of 21.1 °C and an emissivity factor of 0.900.
- Bearing Condition Measurement:** Shows gBC RMS values for VIB 1 and VIB 2 (0.001 gBC RMS).
- Waveform View:** Provides a time-domain view of the vibration signal with a 20 mm/s RMS scale and a 4800 CPM (240) frequency range.
- Phase Diagrams:** Shows phase plots for VIB 1 and VIB 2, with phase angles of 0°.
- Route Management:** Displays settings for a specific route (TriRoute) including plant and machine information, transducer type (Triaxial), and alarm status (WARNING).
- Data Logger:** Shows a log entry for LOG00002.MV5 with VIB 1 and VIB 2 peak values of 0.78 mm/s Peak and 0.62 mm/s Peak.



VIBER X5™

VIBER X5™ scalable platform is designed to allow you to add more features with the functionality you need whether you are an experienced analyst or just starting a Condition-based Maintenance program.

Included in the standard delivery

Option

- | | |
|--|--|
| <input checked="" type="checkbox"/> 2 Accelerometers, VMI 192 | <input checked="" type="checkbox"/> Orbit |
| <input checked="" type="checkbox"/> Internal IR temperature meter | <input checked="" type="checkbox"/> Bearing condition |
| <input checked="" type="checkbox"/> Possibility to listening to the bearings while measuring | <input checked="" type="checkbox"/> Amplitude and Phase |
| <input checked="" type="checkbox"/> IP68 rugged carrying case | <input checked="" type="checkbox"/> Envelope |
| <input checked="" type="checkbox"/> Extension tip | <input checked="" type="checkbox"/> Spectra |
| <input checked="" type="checkbox"/> Desktop charger | <input checked="" type="checkbox"/> Waveform |
| <input checked="" type="checkbox"/> Hand straps for comfortable use | <input checked="" type="checkbox"/> Vibshape |
| <input checked="" type="checkbox"/> USB cable for connection to a computer | <input checked="" type="checkbox"/> Bump test |
| <input checked="" type="checkbox"/> Free software update | <input checked="" type="checkbox"/> Cross Spectra |
| <input checked="" type="checkbox"/> 2 year manufacturing warranty | <input type="checkbox"/> One- and two-plane balancing kit |
| <input checked="" type="checkbox"/> Route based data collection | <input type="checkbox"/> Synchronous averaging |
| <input checked="" type="checkbox"/> Multimeter, process parameters | <input type="checkbox"/> 3 channel simultaneous measurement |
| <input checked="" type="checkbox"/> Data logger for long-term recording | <input type="checkbox"/> Current clamp to measure current and indicate speed |
| <input checked="" type="checkbox"/> Coast-down/-up | <input type="checkbox"/> MCSA (Motor current Signature Analysis) |
| | <input type="checkbox"/> Extended warranty up to 6 years |

Technical data VIBER X5™

Digital	DSP Processor	Texas TMS320C6713B	
	Memory	Storage: 1 Gb micro SD card 128 MByte RAM 2*16 MBytes fast flash memory	<i>Minimum spec. Actual spec. is depending on hardware revision</i>
	ADC	16 bit, max 192 KSPS simultaneous sampling	
Display	Size & Resolution	4,3" Amorphous- TFT-LCD 480 x 272 pixels	
	Colours	65536	
Signals in/out	AC inputs	All standard ICP accelerometers (4mA/24V), velocimeters or general purpose AC transducers in range 0-8 V RMS. Auxiliary input in range 0-30V RMS	<i>VMI default transducers are automatically recognized</i>
	DC input	0 to 5V	
	External reference	0,8 to 24V	
Built-in transducers	Temperature	-10 °C to 120 °C	<i>Infrared</i>
Measurements	Processing	Direct, single or double integrated or derivated (configured in software upon used transducer and user request). Up to three channels simultaneous sampling	
	Frequency range	0.5 to 32 000 Hz	
	Amplitude range	0 to 80 g	<i>Depending on transducer used</i>
	Accuracy	0.01 g ± 1% for non integrated 0.1 mm/s ± 2% for single integrated 2 µm ± 3% for double integrated	
	FFT lines	25600	
	Sampling rate	Up to 131072 Hz depending of selected frequency range	<i>Three channels simultaneous sampling</i>
	Windowing	Selectable: Hanning, Hamming, Blackmann, Kaiser-Bessel	
Power	Accumulators	4500 mAh Ni-MH battery pack	
	Autonomy	10 hours typical use	
	Charging	4 hours typical charge time	
Temperature	Operating	-20 °C to +70 °C (-4 °F to 158 °F)	
	Storage	-30 °C to +80 °C (-22 °F to 176 °F)	



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