

# VIBER X5™ MKIII

SMART PRODUCTS FOR SMART PEOPLE

The new VIBER X5™ MKIII has all features for a reliable analyse of various causes that affect machine conditions and current need of maintenance.

All instruments are designed for rough use and has a heavy duty Casing designed from our years of experience.

Now with embeded thermal camera.



Product of SWEDEN  
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Authorised Distributor in INDIA:

**VIBROTECH TRAINERS & CONSULTANTS PVT LTD.,**

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## VIBER X5™ MKIII

- Easy to operate by logic functions, saves time to learn to use it properly.
- Rugged and tight (IP 65).
- All machine faults can be detected and analysed by multi functional measurements.
- Expert system with automatic fault analyse can be used.
- 5" Crystal clear display, easy to read even in bright light.
- More than 12 hours battery life.
- Outstanding price-performance ratio.





## VIBER X5™ MKIII

### Customer comments about VIBER X5™ MKIII;

*"Very fast instrument starts directly"*

*"Very smart analysing software, best in market"*

*"Smart route windows, you never miss any information"*

*"Situation based help menu, makes the use very easy"*

*"Balancing is very Easy and logic to perform"*

*"Listening to Bearings is very useful for monitoring our conveyors"*

*"Extremely useful to detect and solve machine faults"*

*"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™ MKIII as for the Easy Viber™ and X-Viber™"*

### Sample of Accessories:

Current Clamp, use for speed measurements both for standard electrical motors and frequency controlled electrical motors, also for performing electrical motor test using the software MCSA, (Motor Current Signature Analyse).

3-Axial sensor, with real simultaneously measurements, can reduce work time up to 70%.

Animation measurements using software VibShape, can be performed very easily with the 3 axial sensor, makes it faster and easy to execute.

Balancing kit. Including External tachometer (15 to 60000 RPM) with 5m cable, 2 pcs 5m extension cables for transducers, fast and easy to setup magnet holder for the tachometer, and a pocket Scale.

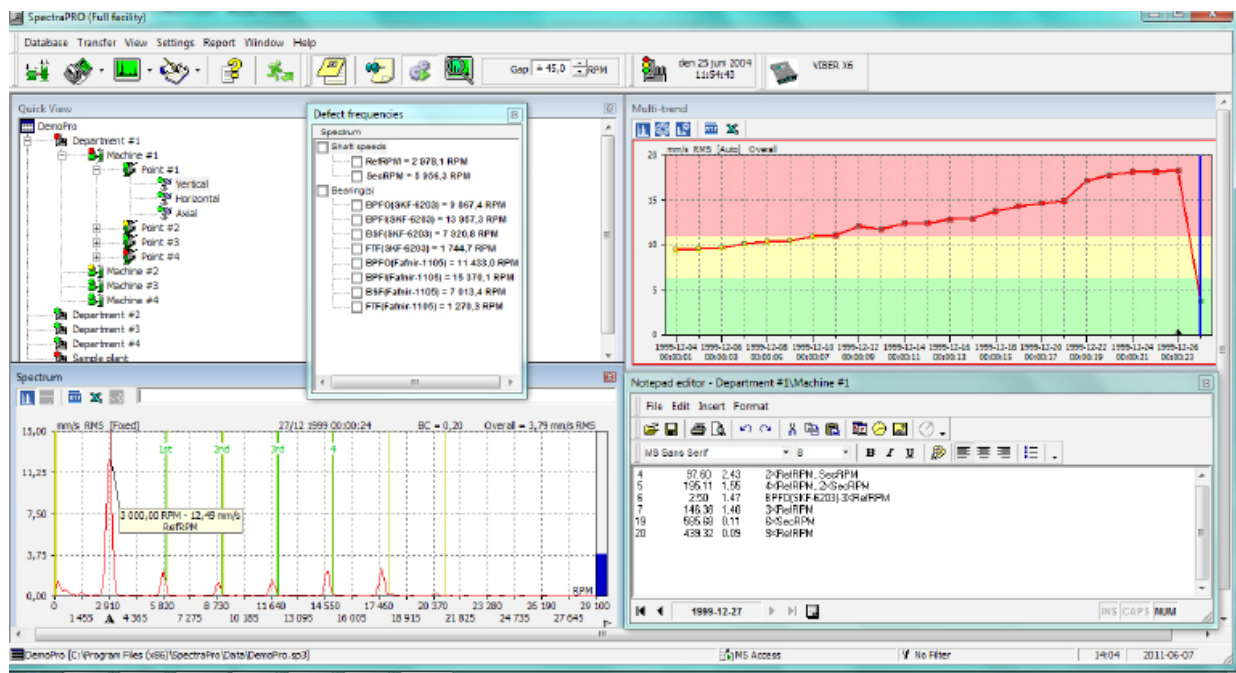
The VIBER X5™ MKIII Case is already pre-cut for the Balancing kit items.



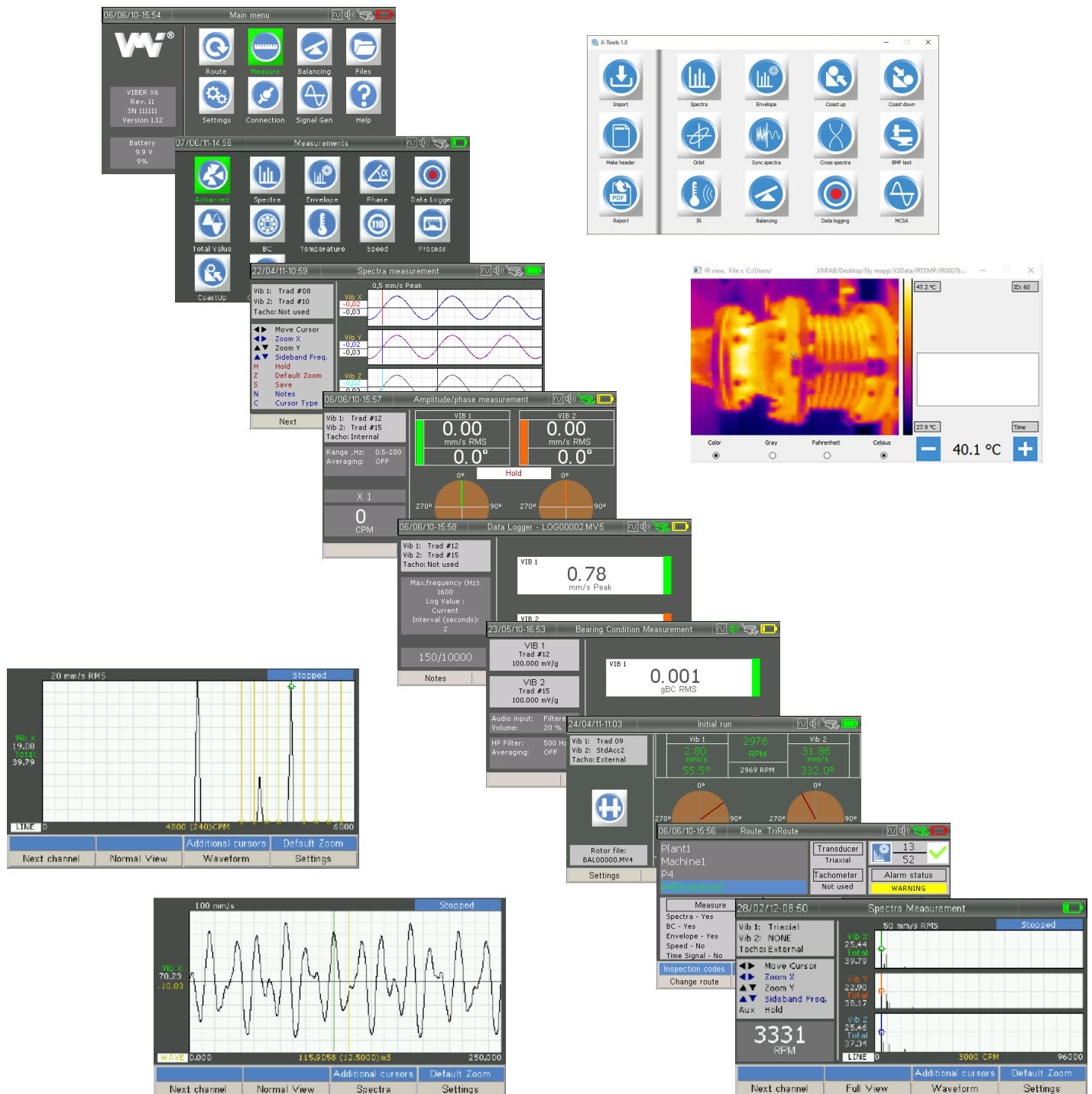
## SpectraPro analyzing and route Software

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

- Can measure speed in route with embedded tacho sensor
- Create routes and set alarm levels. VIBER X5™ MKIII can be used for the same routes as X-Viber™.
- Simple database structure with templates and pictures.
- Large bearing database (over 9000 pcs) where defect frequencies can be calculated and automatically analysed.
- 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 several reports with just 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.



## VIBER X5™ MKIII Display Pictures





## VIBER X5™ MKIII

**VIBER X5™ MKIII** 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

☒ 2 Accelerometers, VMI 192

☒ Internal IR temperature meter

☒ Possibility to listening to the bearings while measuring

☒ IP68 rugged carrying case

☒ Extension tip

☒ Desktop charger

☒ Hand straps for comfortable use

☒ USB cable for connection to a computer

☒ Free software update

☒ 2 year manufacturing warranty

☒ Route based data collection

☒ Multimeter, process parameters

☒ Data logger for long-term recording

☒ Coast-down/-up

☒ Thermal camera

☒ X TOOLS

☒ Orbit

☒ Bearing condition

☒ Amplitude and Phase

☒ Envelope

☒ Spectra

☒ Waveform

☒ Synchronous averaging

☒ Bump test

☒ Cross Spectra

☐ Loop Power 4-20mA measurement

☐ One- and two-plane balancing kit

☐ Vibshape

☐ 3 channel simultaneous measurement

☐ Current clamp to measure current and indicate speed

☐ MCSA (Motor current Signature Analysis)



## Technical data VIBER X5™ MKIII

Digital	DSP Processor	Texas TMS320C6713B	
	Memory	Storage: 4 GB micro SD card 128 MB RAM 2*16 MB 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	5" 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 0-30 V RMS	<i>VMI default transducers are automatically recognized</i>
	DC input	0 to 5 V	
	External reference	0,8 to 24 V	
Built-in transducers	Thermal camera	Resolution 80x60, Temp range -20° to +250°C, Accuracy 2% or $\pm 2^\circ\text{C}$ , Field of view 51°H x 63°V, Minimum focus distance 0.5m, Color plate Iron & Gray, Frame rate 9Hz.	<i>Infrared</i>
	Tachometer	30 - 60000 RPM	<i>Retro-Reflective</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 32000 Hz	<i>Depending on transducer</i>
	Amplitude range	0 to 80 g	<i>Depending on transducer</i>
	Accuracy	0.01 g $\pm 1\%$ for non integrated 0.1 mm/s $\pm 2\%$ for single integrated 2 $\mu\text{m}$ $\pm 3\%$ 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, Rectangular	
Power	Accumulators	6.2 Ah Li-ion fule gauge smart battery pack	
	Autonomy	12 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)	

Net weight: 1,8 kg



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