



VibroGo®

Truly portable laser vibration measurement
Product brochure



VibroGo® is the truly portable, battery powered laser vibrometer for field studies and quick and easy condition monitoring of machines and facilities on the go.

VibroGo® measures vibrations on the go and without contact. This portable sensor detects noise and vibration and directly displays measurement data in the time and frequency domain. VibroGo® even allows on-board analysis in the field, while covering a wide frequency range of up to 320 kHz. Its outstanding resolution, with high linearity across the entire frequency range provides a handy precision analysis tool. Use VibroGo® for a better understanding of dynamics and acoustics in nature and technology - for research, product development and quality assurance.

The Polytec company

For more than 50 years and with nearly 500 employees worldwide Polytec develops, produces, and distributes optical measurement systems for research and industry. Our solutions cover vibration measurement, surface metrology, speed and length measurement, process analytics, machine vision as well as optical systems. Our customers obtain products and services through subsidiaries in Europe, North America and Asia and benefit from our worldwide service. Polytec has an excellent reputation thanks to its down-to-earth mentality, high-grade innovation and superior quality.

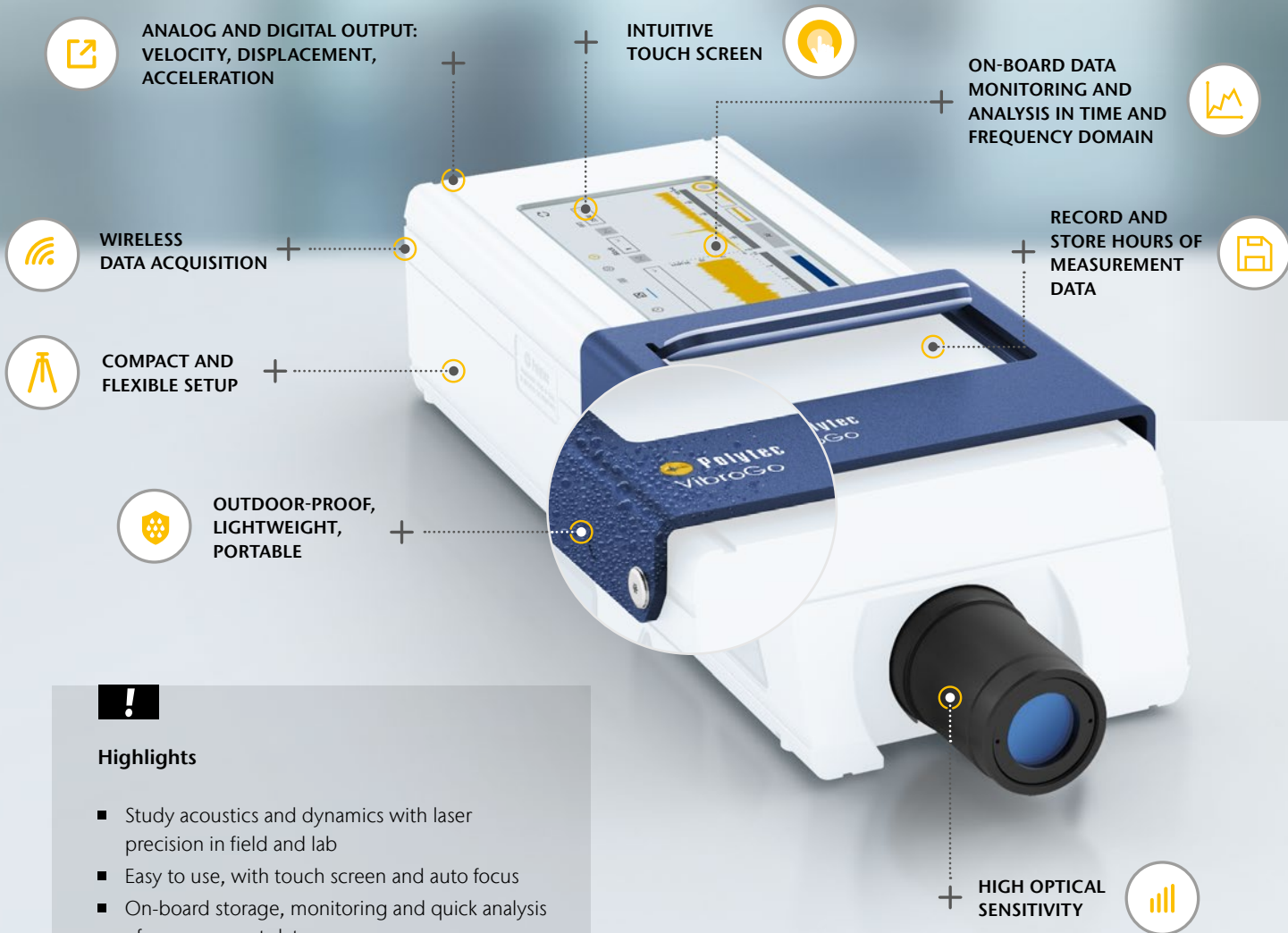




 Polytec

All in one: measurement of vibration, noise, dynamics and acoustics with on-board data recording and monitoring as well as remote control via any web browser.

First portable vibration sensor with on-board data analysis

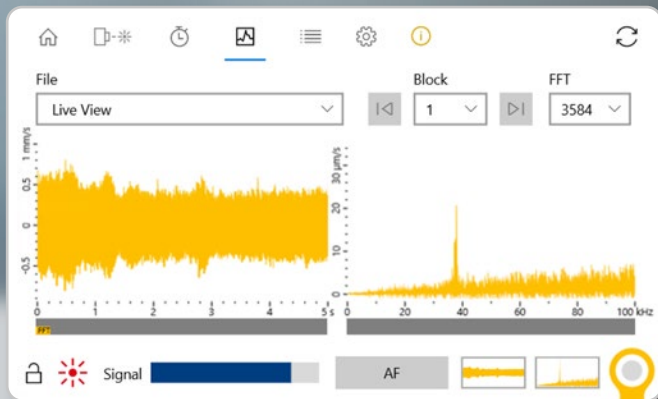


Highlights

- Study acoustics and dynamics with laser precision in field and lab
- Easy to use, with touch screen and auto focus
- On-board storage, monitoring and quick analysis of measurement data
- Wireless measurement and remote control from everywhere within the advanced connectivity concept
- Lightweight, versatile and outdoor-proof (IP64)
- Measure from a safe distance up to 30 m, from DC up to 320 kHz
- Extended velocity range up to 6 m/s
- Displacement and acceleration available as additional output signals
- Analog and digital signal output
- Optional mobile power supply for up to 3 hours operation

Point, shoot and measure

Vibration measurements made simple with VibroGo®: With auto and remote focus you can easily set up the laser beam on your test object and set the measurement range via touch screen. Directly retrieve the vibrational velocity, displacement and acceleration. The integrated signal level indicator ensures the optimum operation. Select high pass and frequency bandwidth filters for clean signals. Thanks to the ASE Adaptive Signal Enhancement, VibroGo® measures reliably on any surface.



On-board data recording and monitoring

Wherever you are and whenever connectivity might become complicated: Measure on the go and record several hours of vibration measurement data while directly checking and verifying your signals and fine-tune your settings right away. This fully self-sufficient operation makes sure, you come home with valid and meaningful data for further processing and sharing.

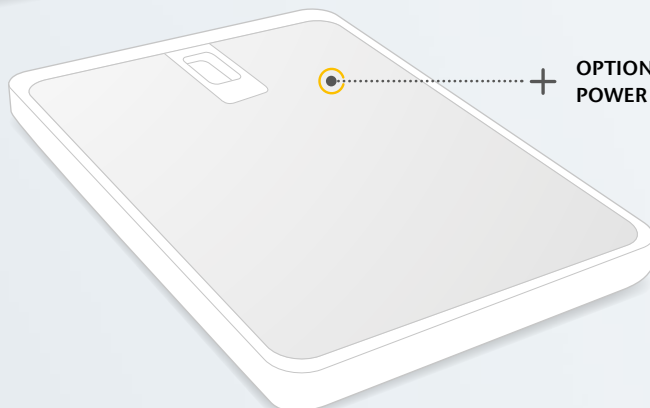
+ **REMOTE CONTROL VIA WEB BROWSER**
*Device not included



A reliable tool for acoustics and dynamics

If you are looking for a portable, multi purpose and non-contact vibration sensor system, VibroGo® is the ideal solution. Use the lightweight tripod for fast setups. Stay independent with the mobile power supply for 3 hours operation time. Safely measure machinery vibrations on difficult to access or hazardous areas due to high voltage, temperature or radiation from a distance. Use Ethernet or wireless connection for measurement and remote control from everywhere, for comfortable sensor configuration as well as data transfer.

+ **OPTIONAL MOBILE POWER SUPPLY**



VibroGo® and VibSoft – advanced connectivity

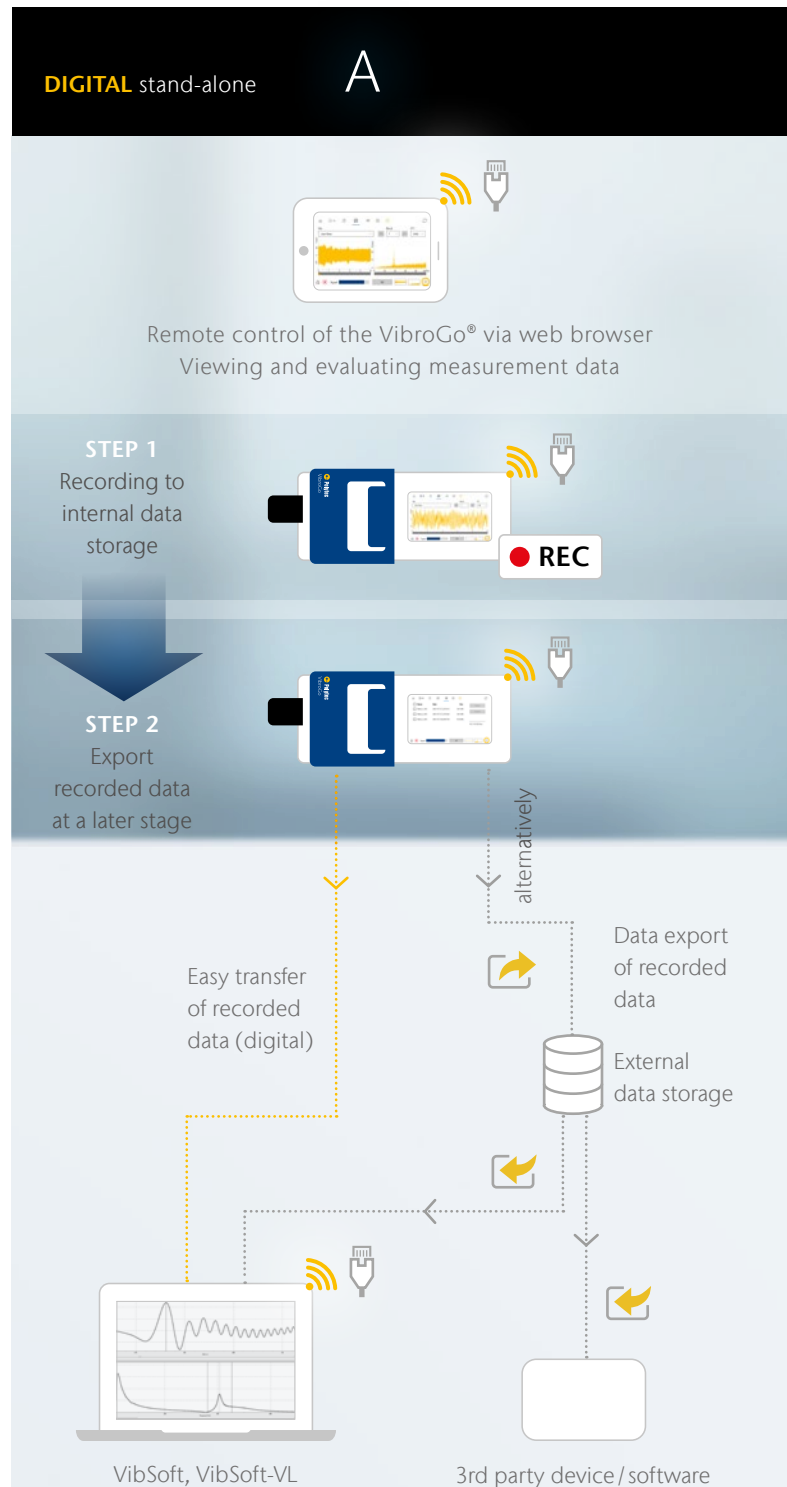
VibroGo® is the first laser vibrometer with on-board data monitoring. It comprises sensor, data acquisition and viewer in one compact, portable device, allowing autonomous field operation and quick analysis of vibrational phenomena anywhere you go.

See measurement signal and evaluation in the time and frequency domain directly on the touch screen or monitor with other devices via web browser. Store hours of data with the recorder function and subsequently transfer to a computer for further processing and analysis [A]. Use Polytec's VibSoft software for direct digital data transfer [A, B]. Various export formats also allow importing the data into 3rd party software [A]. Alternatively, VibroGo® can be used as a classical sensor with analog BNC output [C].

Control the settings of the VibroGo® comfortably and remotely via WLAN or Ethernet from almost any device with a web browser-based user interface.

The latest generation FPGA-based signal processing decodes raw measurement data in displacement, velocity or acceleration and allows signal conditioning and data interfacing – analog and digital.

VibSoft provides both data acquisition and comprehensive analysis of vibration measurement results. For data transfer, choose between the comfortable digital and the classic analog way: VibroLink is Polytec's interface for direct and fully digital data acquisition via Ethernet or WLAN, enabling control of all measurement settings with the software package VibSoft-VL. The analog version of VibSoft features a junction box with several analog input channels which allows connecting additional analog inputs like other sensors and reference signals.





Key



Data export



Data import



VibroLink -
digital interface via
WLAN or Ethernet

DIGITAL direct

B



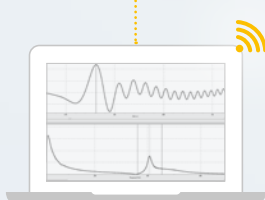
Remote control of the VibroGo® via web browser.



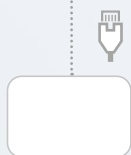
alternatively

Remote control
& data stream
(digital)

Remote control
& data stream
via Device
Communication
Software



VibSoft, VibSoft-VL



3rd party device / software

ANALOG

C



Remote control of the VibroGo® via web browser.

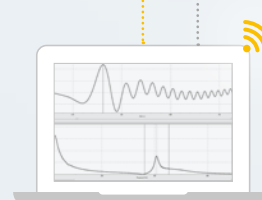


Analog signal

Remote control
(digital)

VibSoft
analog
junction box

alternatively



VibSoft



3rd party device / software

Vibration analysis in the field and lab



Biological and entomological field studies without influencing sensitive samples, e. g. studying insect communication or elaborating ecological pest control.

VibroGo® enables a reliable and precise vibration analysis, e.g. for condition monitoring of machinery, civil engineering and quality inspections with remote control.



Predictive maintenance in the field at distances up to 30 m especially for hard-to-access areas or from safe distances.



Process control and quality inspections of machinery, tools and installations in challenging industrial environments with on-board data analysis for live feedback.

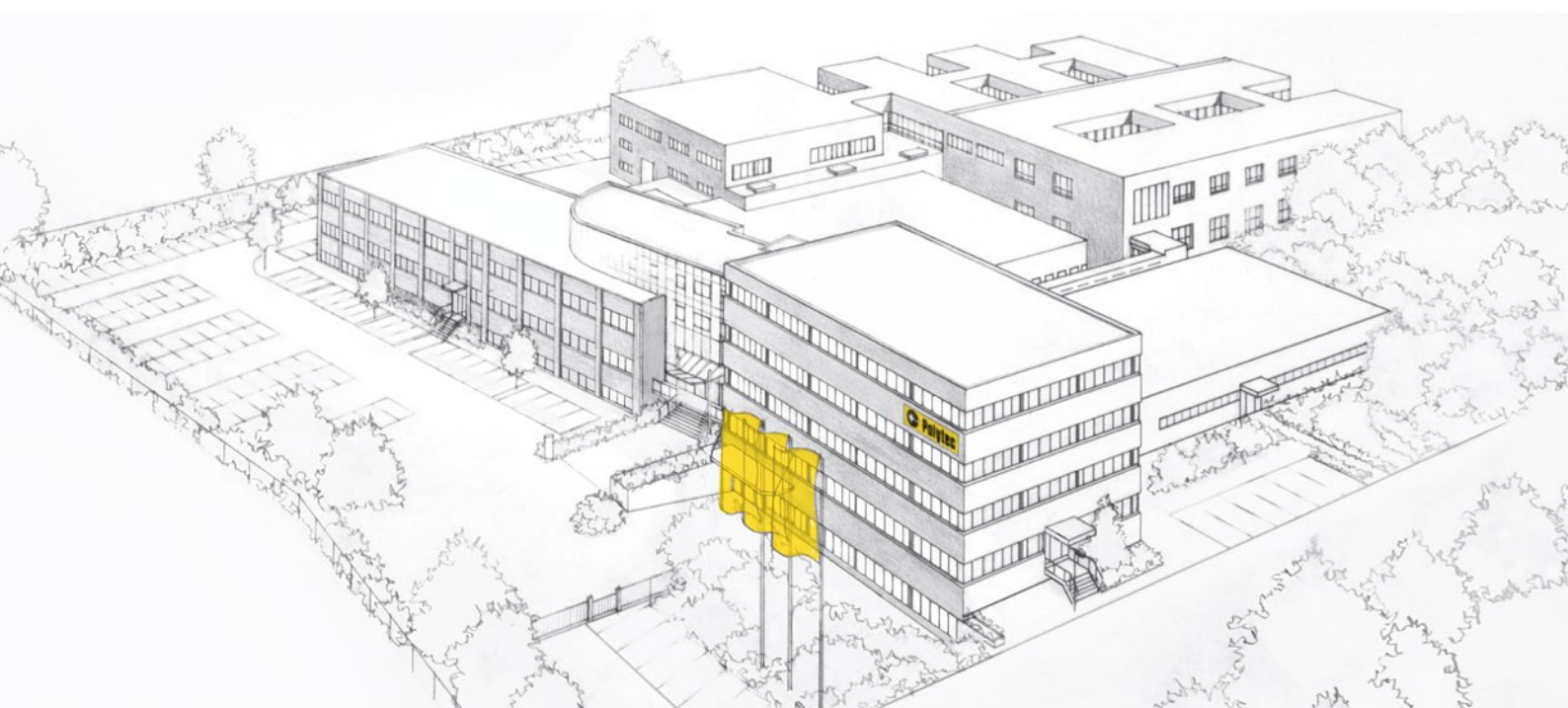


POLYLAB – the university program from Polytec

Educational institutions such as schools, colleges and universities can loan mobile, non-contact vibration measurement technology from Polytec free of charge with an optional Education Kit.

www.polytec.com/US/polylab





Shaping the future since 1967

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