BETAVIB

UNLOCK MOBILITY, EMBRACE PRECISION

Experience the future of vibration monitoring with BETAVIB's Portable Solution. This compact marvel seamlessly integrates cutting-edge technology with user-friendly design, empowering you to capture real-time data on-the-go.

Unlock Mobility

Embrace Precision

PORTABLE SOLUTIONS

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PORTABLE SOLUTIONS

Redefining Mobility in Vibration Analysis with BETAVIB's Portable Solutions

At BETAVIB, we understand the need for seamless adaptability and precision in the world of vibration analysis.

Introducing our Portable Solutions – a compact powerhouse designed to bring unparalleled flexibility to your diagnostic processes.

With BETAVIB's commitment to innovation, experience the freedom to conduct vibration analysis wherever you go, ensuring reliability and efficiency at your fingertips.

Welcome to a new era of portable excellence with BETAVIB.

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INTRODUCTION

PRODUCTS

VIBWORKS COLLECTOR

OFF ROUTE / ROUTE
1st AND ONLY Collector on the Market based 100% on TWF.

EMBEDDED CAMERA
Take pictures of assets for reports directly to your DB and reports with your instruments

ORDER EXTRACTION
Harmonic and nonharmonic Order analysis and extraction

CHANNELS
4 Channels, Simultaneous sampling software handled Accel.

DATA ACQUISITION	Single Axis and Triax route measurement ,Long Time recorder BlueTooth Real Time Audio from Accelerometers, Real Time Color Coded Alarm Levels ,Embedded Camera ,RealTime Velocity Spectrum, Acc, Spec., 5 OverAll levels and Time Waveform.
KINEMATICS	OneClick Fault frequencies calculation/update for variable speed equipment, Smart Harmonic and lateral Cursors, Bearings Faults cursors ,Variable Speed Machinery Analysis , Gear mesh cursors, Harmonic Events Cursor.
SIGNAL PROCESSING	OverAll Time Indicators (Peak, RMS, Kurtosis, Crest Factor,Velocity) Spectrum, Spectrum Env.,Narrow Bands, Octaves, Filters, Cepstra, Hilbert... Time frequency spectrogram Spectrum superposition (Waterfall,3D, 2D) , by point or by machine, High Pass, Low Pass, Band Pass, and Band Stop Filters, Customizable Analysis configurations.
DATABASE	8 Levels Database Architecture ,Color coded Treeview ,Efficient Machines definition (cloning process) ,Embedded Bearing Database, ClickOnce Machines definition by templates.

VIBWORKS ANALYZER

USER-FRIENDLY INTERFACE

Its user-friendly interface makes it accessible to both experienced technicians and newcomers, simplifying the process of data interpretation.

DATA-DRIVEN INSIGHTS

Businesses gain actionable insights from the analyzer's data, improving decision-making and overall operational efficiency.

COST SAVINGS

By reducing maintenance costs, minimizing downtime, and extending equipment lifespan, the VibWorks Analyzer offers significant cost savings over time.

COMPREHENSIVE VIBRATION ANALYSIS

The VibWorks Analyzer provides in-depth vibration analysis, allowing businesses to monitor machine health and identify potential issues accurately.

TRIGGER RANGE	Up to 25 feet (Class 3R Visible Laser)
TRIGGER	TTL Pulse output
SPEED	5 RPM to 200 000 RPM
RT ANALYZER	Cross Spectrum, Magnitude Overall Level With FilterPhase,
IMPACT TESTING	FRF by impact testing, Bode Diagram, Nyquist Diagram,Export to Excel...
PHASE	Cross Correlation Based Method
A/D CONVERTER	5 RPM to 200 000 RPM
SAMPLING FREQUENCY	51.2 Khz (optional 102.4 Khz)
FREQUENCY UNITS	Hz, CPM
FMAX	20 Khz (optional 102.4 Khz)
ORBITS	Using proximity probes and accelerometers
ORDER EXTRACTION	Harmonic and non harmonic Order analysis and extraction
TEST BENCH MODE	Intuitive Pass Fail setup

VIBWORKS BALANCER

Real Time Balancing

High precision and accuracy in balancing results! One shot single Balancing without the need of Trim runs!

The possibility of keeping or removing the trial weight while balancing!

All Balancing steps results are highlighted in real time to facilitate the access to information.

MERGE WEIGHTS

Automated way to merge weights where it matters to reduce the number of weights already on a rotor!

Merge weights made easy with an interactive User Interface!

USER INTERFACE

Supports up to 2 graphical modes:

Dark mode for a low light environment (for more comfort) & a Light Mode for a High light environment (For more visibility)

REPORTS

Reports are customizable with ease of use by including your company logo, Technician contact info, customer contact info, and the machine picture with a ready to print layout!

Speed	120 RPM to 300 000 RPM
Split Weights	3 to 48 Points
Rotor Parameters	Sensitivity Calculation and Storage
ISO Standard	Embedded ISO 1940
Residual Unbalance	According to ISO Weight calculation mass
Balancing Report	Generated automatically with Email sending
Indication	Real Time Polar Diagram with Vector Indication
A/D Converter	24 Bits
Sampling Frequency	51.2 Khz (Optional 102.4 Khz)
Frequency Units	Hz, CPM

KNIGHT

- 1 Channel Instrument
- Smart Machines creation
- Extended Bearing DB
- Standard Reports generation
- Basic and advanced signal processing tools
- Long time waveform collector
- Automated fault frequencies management
- Automated transmission management

ROOK

- True Simultaneous triax acquisition
- Smart Machines creation
- Extended Bearing DB
- Standard Reports generation
- Basic and advanced signal processing tools
- Long time waveform collector
- Automated fault frequencies management
- Automated transmission management
- Anomalies reports generation
- Automated DB definition
- S.A.M : Smart Alarm Module
- History Reprocessing
- Advanced Reporting Capabilities

YOUR MONITORING STRATEGY

KING

- Automated DB definition
- S.A.M : Smart Alarm Module
- History Reprocessing
- Advanced Reporting Capabilities
- U.H.D.M Ultra HD Monitoring
- Interactive Color coded DashBoard
- Direct Bluetooth audio from sensor
- Advanced reporting capabilities
- True Simultaneous triax acquisition
- Smart Machines creation
- Extended Bearing DB
- Standard Reports generation
- Basic and advanced signal processing tools
- Long time waveform collector
- Automated fault frequencies management
- Automated transmission management
- Anomalies reports generation

DATA HARMONY, AFFORDABLE PRECISION

Our brand-new affordable solution, fully compatible with VibWorks Environment, offers the opportunity to achieve high quality data acquisition. You can benefit of all our solutions efficiency and flexibility in a budget friendly architecture.

Data can be Cloud synchronized to give your Analysts access to our high-end Analysis UHDM platform, and AI algorithms are available.

to assist you analyze your data with clear directions to follow, including timeframes tolubricate your assets, balance them, change bearings.

ACQUISITION

- Long TWF Acquisition
- Sampling at 52Khz
- Intuitive Route Management

SETTINGS

- Customize Data Capture
- Optimize Resource Usage
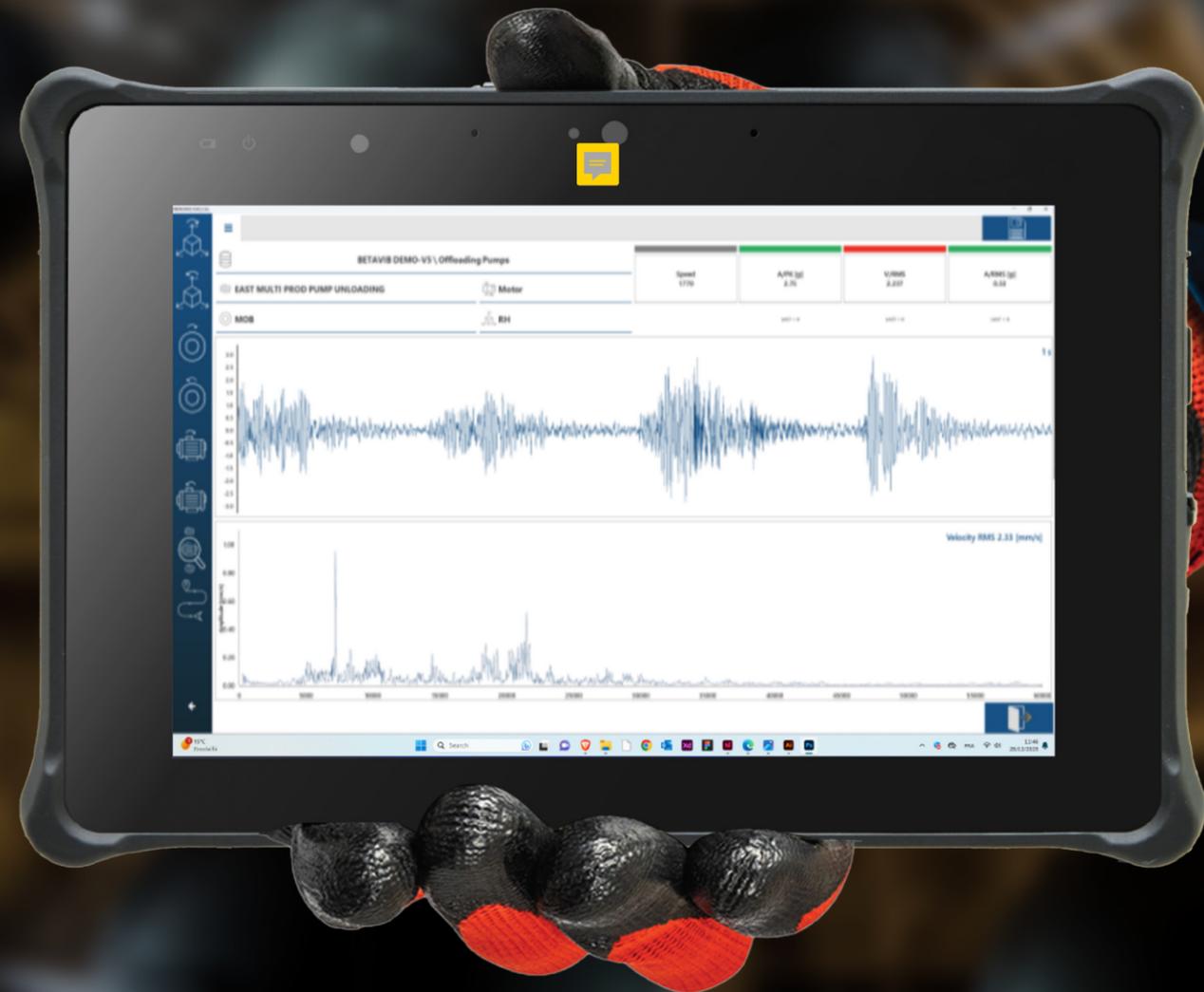- Safeguard Sensitive Information

REPORTING

- Stand Alone and Cloud Based Ready
- You analyze or AI analyzes the Data
- Cloud based Dashboard and KPI's

CLOUD

- Entire A.I. Route Reports
- Actionable Reporting Outputs
- Summary reports for management Overview

VIBWORKS LT

VIBWORKS SERVER

In the digital world, a server acts like a helpful coordinator, making sure computers can talk to each other smoothly.

Imagine it as a traffic controller for information on the internet.

Instead of hosting websites or managing files on your own computer, a server takes on these tasks, ensuring everything runs efficiently and stays connected.

It's like a behind-the-scenes hero that keeps the online world working seamlessly.

Empowering Connections, Uninterrupted Excellence

Vibworks server tranforms your collector into an OCA (Occasionally Connected App). Allowing you to access all the databse while off-line, the field and sync the data with a central DB and/or with other users while online.

This means you can generante reports, Analyze data and perform all your daily tasks even when you are offline,and as soon as a connection to the server becomes available all your data will be synchronized to the server and immediately become visible to supervisors /reliability leaders/ higher enterprise management.

DATA ANALYSIS

SERVER

DATA COLLECTION

COLLECTOR 2

COLLECTOR 1

COLLECTOR 3