

ROKADE VIBRATION ANALYZER & BALANCER

 **VAB100** PRO



Advance Vibration Analyzer

IP65, Portable & Compact

1 & 2 Plane Balancing

ROKADE

Vibration Analyzer & Balancer

ROKADE Vibration Analyzer & Balancer is suitable for all kinds of rotating machines, such as motor, pump, air compressor, windmill, gear box, steam turbines, generators, cooling towers, etc.

With the powerful Analysis software, we can manage the equipment database, monitor trend of state, analyze the abnormal cause and generate the report.



Features

Intelligent LED Display

- Different color of LED lights indicate the state of instrument and battery

Excellent Equipment Performance

- The stable and efficient Android operating system
- Powerful data processing ability with 400MHz high-performance embedded micro-controller processor

Human-machine Interface

- Portable, One-hand operation
- Intelligent Sensitization, according to the light intensity to automatically adjust the brightness of the LED screen



Super Clear Exquisite Color Display

- 65000 color Quarter VGA TFT display
- Bright backlight
- Auto off

Solid Shell

- Light and compact
- IP 65
- Non-slip design

Large Capacity Storage

- 8GB

High Capacity Lithium Battery

- large capacity lithium battery for > 8 hours of continuous use on a full charge.

Common Machine Faults Diagnosis



Unbalance



Misalignment



Bearing Defects



Cavitation



Structural Resonance



Gear Wear

The interface, suit for industrial environment



Trigger/Speed/
Industrial interface

USB communication
interface

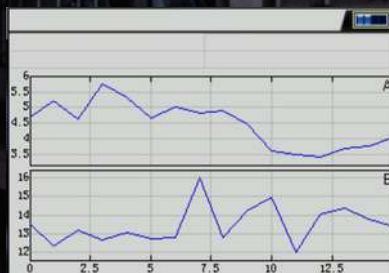
Measurement channels
A and B

Functions

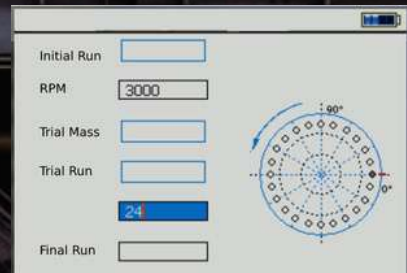
- Route Based Data Collection
- Total Vibration Trend Monitoring
- FFT Analysis
- Time Domain Waveform Analysis
- Single, Double-plane Dynamic Balance
- Speed Measurement
- Vector Decomposition and Synthesis
- Raw Data Analysis
- ISO Permissible Unbalance Query



Vibration Measurements



FFT Spectrum & Time Waveform



Single / Double Plane Balancing

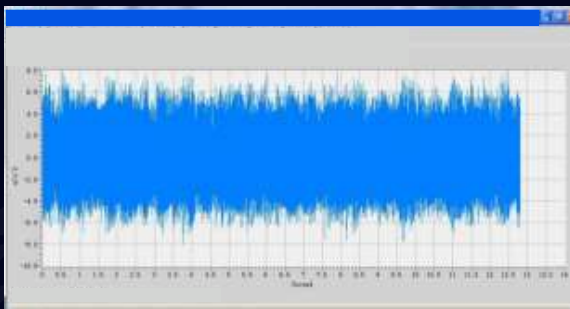
ROKADE

Data Collection & Analysis Software

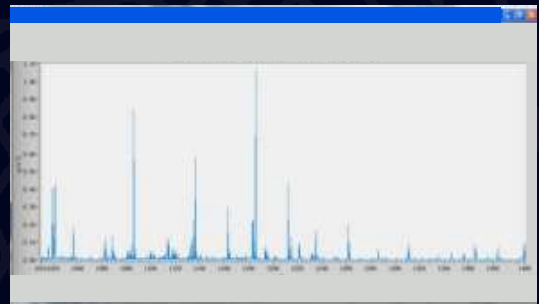
Our software has the functions of equipment condition data collection, management, machine status alarm, trends and fault diagnosis. It provides the user with a convenient and flexible work platform, which enables it to manage machine status data, collect schedule data, evaluate machine status, analyse machine fault and plan predictive maintenance.



Software



time domain waveform analysis



FFT analysis



vibration trend analysis

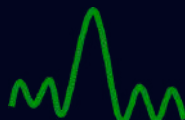
Machine			Class I	Class II	Class III	
	in/s	mm/s	Small Machines	Medium Machines	Large Rigid Foundation	L. F.
0.01	0.28					
0.02	0.45					
0.03	0.71					
0.04	1.12			Good		
0.07	1.80					
0.11	2.80			Satisfactory		
0.18	4.50					
0.28	7.10			Unsatisfactory		
0.44	11.2					
0.70	18.0			Unacceptable		
0.71	28.0					
1.10	45.0					

ISO 10816

Functions



Vibration Measurement



FFT



Time Waveform



Balancing (1 / 2 Plane)



Report Generation

Specifications

Display	Colorful backlit LED screen, 480*640, 16.7M color	
Digital	Processor 1 MX6Q, quad-core Cortex-A9, single core 1GHz Flash 8GB e.MMC	
Communication	USB2.0 Full Speed	
Power	Lithium-ion, Operating time >8 hours continuous, Recharge time 2-3 hours	
Size	190 x 110 x 38mm	
Weight	900g	
Conditions	Encloser	IP65 Dust-tight and splash-resistant
	Drop Test	1.2m
	Operation Temperature	-10°C ~ 50°C
	Humidity Range	0% ~ 80% Relative humidity
Collection	Channel	Channel A: ICP/AC/DC Channel B: ICP/AC/DC Channel RPM: speed
	Signal Types	Velocity, Acceleration, Displacement
	Measurement Types	Time waveform, total value, spectrum
	Signal	±25V
	Dynamic Range	> 110dB
	Frequency Range	High (Fmax) all inputs = 40Khz, Low (Fmin) DC input = DC/AC/ICP input
	Analog Filter	High (0.16Hz / 1M / 2Hz / 5Hz / 10Hz / 20Hz / 50Hz /100Hz) Low (500Hz / 1kHz / 2kHz / 5kHz / 10kHz / 20kHz / 40kHz)
	Refresh Rate	40 KHz
	Windowing	Hanning
Dynamic Balance	Sampling Rate	1K - 128K
	Speed Range	1 ~ 100,000 RPM
	Dynamic Balance	Single, double-sided dynamic balance, vibration analysis, rapid dynamic balance analysis
	Acquisition signal type	The unit can be set free
	Operation	Wizard type operation
	Tool Box	Time/frequency domain analysis,history browsing, manually entered, data review, vector decomposition/synthetic, ISO permissible unbalance query, add calculation

Up to 12,800 lines of resolution Synchronous dual-channel measurement Portable design, one-handed operation (900 grams) 8GB huge storage capacity, large backlit true color LED display, convenient keyboard operation and rich Guide to help Quick data acquisition and on-site evaluation Humanized settings based on professional experience-more ideal for beginners.



Complete Kit

NAME	QTY
Display Unit	1
Acceleration sensor & connecting cable	2
Tachometer & connecting cable	1
Magnetic Stand	1
Electronic weighing scale	1
Charger	1
USB cable	1
Data collection and analysis software	1
Manual of device	1
Manual of software	1
IP65 case	1
Warranty certificate	1

OUR CUSTOMERS



OUR PRESENCE



● OUR BRANCHES

THANE :

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