







Front view containing vibration inputs for left and right plane and the tachometer sensor



Back view containing USB Type - C for fast charging and communication with the application in the PC

Durability & Protection

- Rugged IP65-rated housing: fully protected against dust and water ingress.
- Built to withstand harsh industrial environments and impacts.



Introducing the innovative features of the X BALANCER + TM

- Easy to Use: The X BALANCER + TM is designed to be user-friendly, with all necessary knowledge available in the application, presumably making it easy for operators to perform balancing tasks.
- **Speed range:** An extended range of rotor speeds, spanning from a remarkable low of 30 RPM up to an astonishing 180,000 RPM.
- Wireless: Bluetooth communication establishes a seamless connection between the device and the X BALANCER + ™ application, enhancing the convenience of its use on Android tablets or Windows-based PCs/tablets. This wireless technology eliminates the hassle of wires, allowing users to effortlessly engage with the application. It empowers users to access services, data, and functionalities wirelessly, resulting in a smoother and more user-friendly experience on their chosen device.
- Applicability: It can be used for a variety of rotating machines, encompassing pumps, fans, mills, mowers, stirrers, and blowers.
- **ISO Standards:** The balancing process can be conducted in accordance with ISO Standards, ensuring that the balancing is performed to internationally recognized standards.
- Multiplane: The device is capable of performing balancing in either one or two planes, which allows for comprehensive balancing adjustments.
- Weight Distributions: Weight distributions can be fixed to specific positions, likely enabling precise adjustments during the balancing process.
- Standard Rotors: The software includes standard rotors, simplifying the implementation process by providing predefined options.
- Add vector: The process of adding vectors enables the combination of unbalanced weights to visually represent a single weight at a specific angle.
- Material reduction: Allow the user to reduce mass by drilling a hole on the plane instead of adding weight.
- Balancing Reporting: Balancing results can be easily reported, allowing users to document the outcomes of their balancing efforts.



X Balancer +TM with Extended Analysis

The all-in-one solution for precision balancing and advanced vibration diagnostics.

• Spectrum Measurement

- Analyze system vibrations across a wide frequency range (2 Hz 12,800 Hz).
- Resolution options down to 0.5 Hz for highly detailed diagnostics.
- Supports pre- and post-balancing measurements to verify improvements.
- Results viewable in multiple units $(g, mm/s, \mu m)$ and detection types.
- Compatible with accelerometers, velocity sensors, and proximity probes.

Coast-Down Analysis

- Detect mechanical resonances and critical speeds during machine shutdown.
- Captures vibration levels and phase angles as functions of rotational speed, with results available in multiple units (g, mm/s, µm) and across various detection types.
- Intuitive diagrams pinpoint resonance zones and help prevent future issues.

• Total Value Measurement

- Monitor vibration intensity across the same frequency ranges as Spectrum.
- Works with multiple transducer types, units, and detection methods.
- Automatic integration in balancing workflows for seamless diagnostics.

Bearing Condition Monitoring

- Uses accelerometers to assess bearing health over various frequency ranges.
- Results displayed in the gBC unit with RMS, Peak, and PP detection options.
- Early detection of defects protects critical machine components.

Integrated Automation

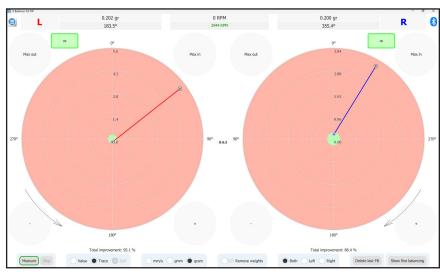
- Automatic Total Value and Bearing Condition measurements during balancing.
- Results clearly presented in the Initial Run menu and Balancing Report.
- Helps detect mechanical issues before balancing, ensuring accurate results.

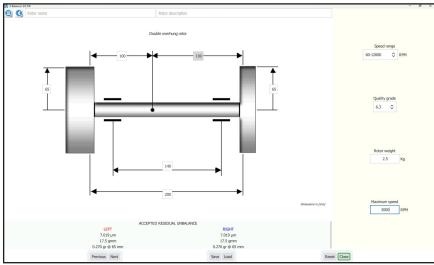
Upgrade Options

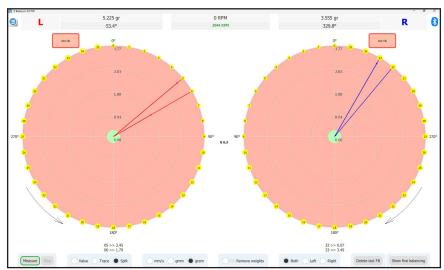
Contact your authorized distributor to purchase a license ticket and upgrade your X BALANCER + TM.



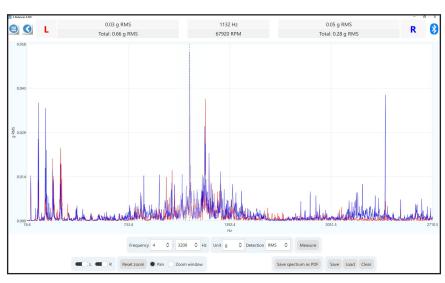
A summary of some selected menus from the application



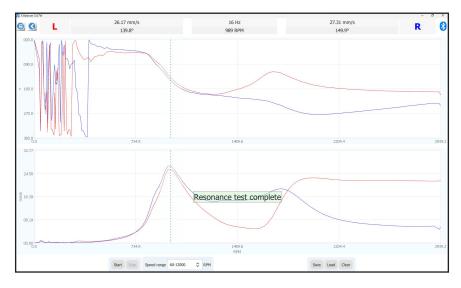














Electrical properties

lal	ADC	24 bit	
Digital	Dynamic range	120 dB	
Rotor speeds	Low range	30 - 1200 RPM	
	Medium range	60 - 12000 RPM	
	High range	6000 - 18000 RPM	
Signals	AC inputs	All standard ICP accelerometers (4mA/24V), velocimeters or proximity sensors	
	External reference	0.5 to 24 V	
Measurements	Amplitude range	0 to 80 g, peak	Depending on transducer
	Accuracy	$0.01~g\pm1~\%$ for non integrated $0.1~mm/s\pm2~\%$ for single integrated $1~\mu m\pm3~\%$ for double integrated	
	FFT lines	Up to 12800	
	Resolution	0.5 Hz or 1 Hz	Depending on frequency range
	Spectrum range	From 2 Hz up to 12800 Hz	
	Total Value range	From 2 Hz up to 12800 Hz	
	Bearing condition range	From 500 Hz up to 15000 Hz	
Power	Battery	3.7 V, 6.8 Ah Li-ion	Fuel gauge smart battery pack
	Operating time	12 hours typical use	
	Charging	2 hours up to 80% with fast charger	4 hours fully charged
	Charger	Fast charger QC 3.0 compatible	
Temp.	Operating Storage	-20 °C to +70 °C (-4 °F to 158 °F) -30 °C to +80 °C (-22 °F to 176 °F)	
Size	Dimensions L x W x H Weight	215 x 150 x 46 mm 700 gr	

