MobiVib®

REDEFINE VIBRATION DATA COLLECTION

MOBIVIB

ABOUT MobiVib®

Vibration Testing Simplified

MobiVib ® KIT enables on-the-spot vibration measurement and spectrum analysis.

The app can be interfaced with a high-resolution digital, broad-frequency piezoelectric accelerometer, or any other Integrated Circuit Piezoelectric (ICP) sensor using USB interface.

Powerful &
Affordable

Perform instant vibration measurements and spectral analysis and get an idea of your asset's health.

Record and send data to off-site specialists

01 **Faster Execution Time**

Off-line vibration data acquisition has never been easier as measures are taken faster with the application's intuitive and user-friendly interface, and it provides more flexibility in terms of data acquisition.

02 **The Power of Cutting Edge Technologies**

Get higher performances with the latest mobile devices specs, as the application is compatible with the latest Android versions, and is on continuous integration of new devices.

03 **Sharing and Remote Monitoring Capabilities**

Get more information out of vibration data by sharing it with remote experts.
The application in compliance with I-SENSE® makes it even easier to perform analysis and get recommendations, helping you keep an eye on all of your assets.

04 **Instant Vibration Analysis and AI**

Perform instant vibration measurement and spectral analysis and get on-the-spot alarms and notifications upon syncing data with the I-SENSE® platform.

MOBI IB

Integration with I-SENSE®

## Get more features and capabilities by connecting to the I-SENSE® platform

✓ Easy access to the database of all assets, measurement and alarm history wherever you are, whatever device you use.

✓ Automatically generate measurement reports daily or weekly.

✓ Access to the equipment data : Thresholds schemas, photos, characteristics, components …

✓ Access to an advanced spectral analysis toolbox to better diagnose the condition of your equipment.
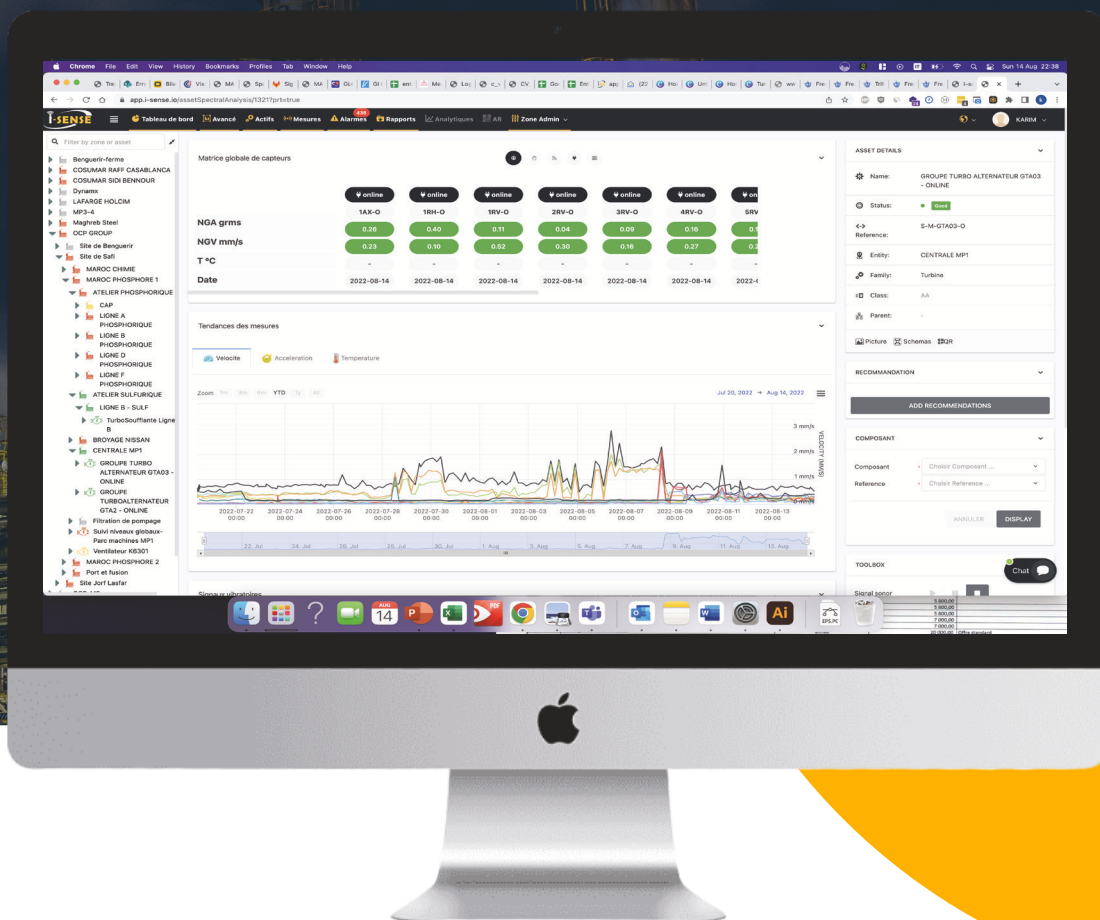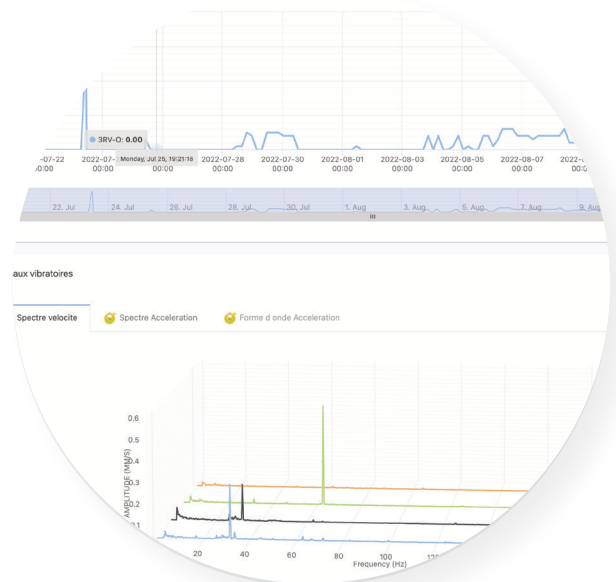
Main Features
Mobile app

- Vibration acquisition up to 8 kHz

- Visualize and store measurements data

- Export signals locally or share them via email

- Collect more inspection data (images, descriptions ....)

- USB plug-and-play capability

- Display FFT spectra on mobile device

- Fast and reliable acceleration, velocity, and demodulation spectrum
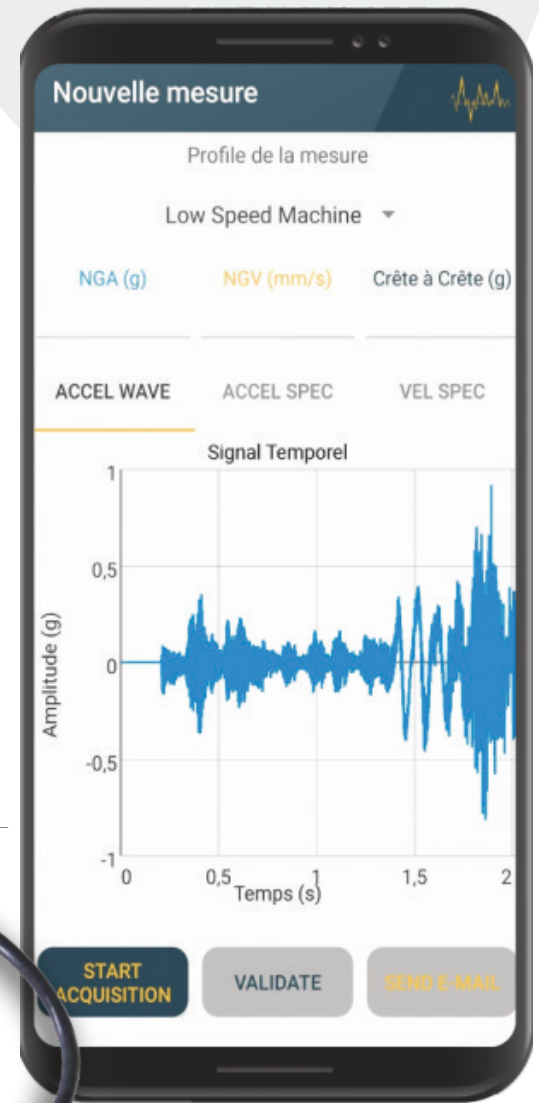
Spare Parts

Digital Vibration Sensor

Magnetic Mounting Base

Mobile Device

Case

Digital USB 2-Channel Acquisition Hardware for Balancing (Optional)

Bluetooth Connector (Coming Soon)

Technical Specifications

Performance, Mechanical, and Electrical Information

SENSITIVITY		
Channel A	4.00 % FSV/g	
Channel B	7.96 % FSV/g	
Measurement Range		
Channel A	± 20 g pk	± 196 m/s2 pk
Channel B	± 10 g pk	± 98 m/s2 pk
ADC Bandwidth (-3 dB)	9.3 cpm to 1 374 000 cpm	0.155 Hz to 22 900 Hz
Frequency Range (±5%)	120 cpm to 480 000 cpm	2 Hz to 8 000 Hz
Frequency Range (±10%)	90 cpm to 660 000 cpm	1.5 Hz to 11 000 Hz
Frequency Range (±3dB)	54 cpm to 900 000 cpm	0.9 Hz to 15 000 Hz
Resonant Frequency	≥ 1 500 000 cpm	≥ 25 000 Hz
Mounted Resonance	1 044 000 cpm	17 400 Hz
Mounted Resonance Amplification	200 %	
Broadband Resolution (1 Hz to 10 000 Hz)	0.0025 g pk	0.0245 m/s2 pk
Non-Linearity	≤ 2 %	
Transverse Sensitivity	≤ 5 %	

Electrical

Overload Limit (Shock)	7 000 g pk	68 647 m/s² pk
Temperature Range	14 ˚F to 158 ˚F	-10 ˚C to + 70 ˚C
Temperature Coefficient	0.10 % / ˚F	0.18 % / ˚C

Environmental

Communication Standard	USB 2.0 Full Speed
Power Consumption	≤ 45 mA
Internal ADC	24-bit
Supported Sample Rates	
24-bit	48, 44.1, 32, 22.05, 16, 11.025, 8.0 KHz
16-bit	48, 44.1, 32, 22.05, 16, 11.025, 8.0 KHz

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Technical Specifications

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Mechanical

Size - Hex	1.0 in	25.4 mm
Size - Height	2.6 in	66.0 mm
Weight	4.62 oz	131 grams
Mounting Thread	1/4-28 UNF	
Mounting Torque	2 lbf·ft to 5 lbf·ft	2.7 N·m to 6.8 N·m
Sensing Element	Piezoelectric Ceramic	
Sensing Geometry	Shear	
Housing Material	Stainless Steel	
Sealing	Welded Hermetic	
Electrical Connector	USB Type A Male	
Elec. Conn. Position	Top	
Cable Length	9.6 ft	2.9 m

MOLDED INTEGRAL USB CABLE 9.6 ft [2.9 m] IN LENGTH

[48.3] 1.90

[1.27] .05

1/4-28 UNF-2B X .20 [5.1]

[25.15] Ø .99 TYP.

1.00 [25.4] HEX

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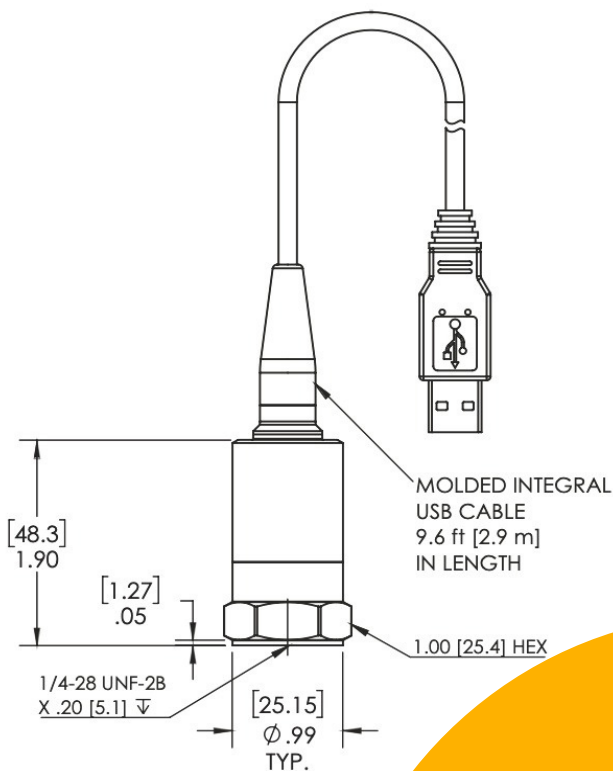
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