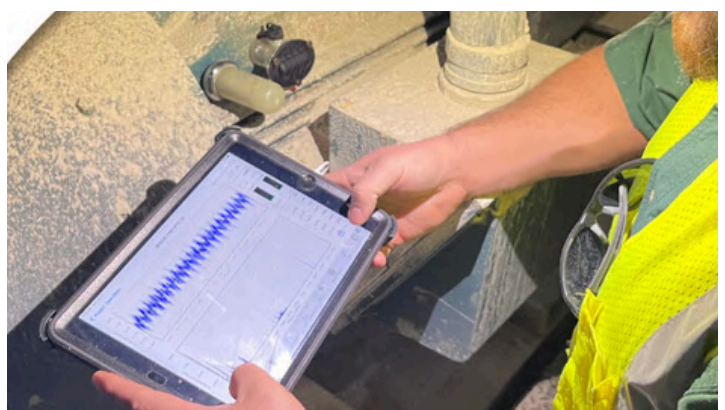
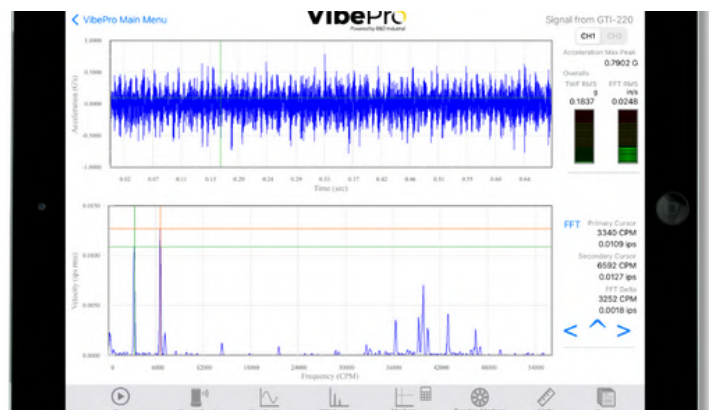
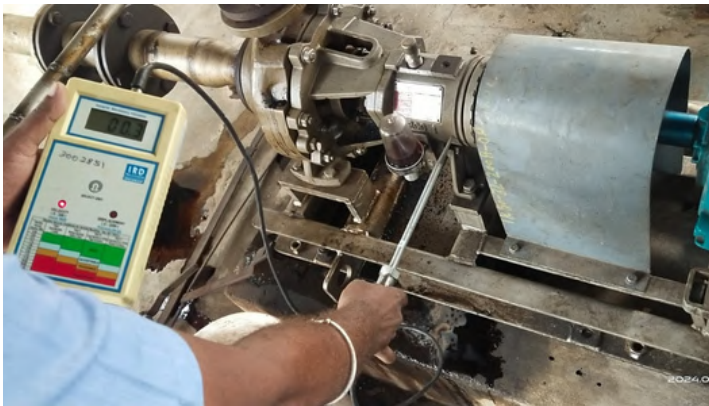




Portable Instruments

Vibration Meters | Vibration Analyzers | In-Situ
Dynamic Balancers





Introduction

IRD Mechanalysis Limited is a provider of Condition Monitoring Solutions to the World **since 1962**. Also known as 'IRD' and 'The Vibration People' - IRD provides Portables Instruments, Online Systems and Associated Services for Condition Monitoring. Our Instruments help in carrying out **Preventive and Predictive Maintenance** and help turn Maintenance into a Profit Center. Our offerings can be summarised into:

- **Portable Instruments** - Vibration Meters and Analyzers
- **Online Systems** - Vibration Sensors, Transmitters, Machinery Protection Systems and Cloud Based Monitoring Systems
- **Associated Services** - Training, Consulting, Commissioning, Repairs and Calibration

IRD makes Portable Instruments for Vibration Measurement. These Instruments are Lightweight, Handheld, Rugged and Easy-to-use. These help the User carry out Preventive and Predictive Maintenance by taking measurement and comparing with Standards. High Vibration problems can be solved using Vibration Analyzers



Digital Vibration Meters



IRD301

IRD301 is a Simple and Easy-to-use Vibration Meter. It measures Vibration Velocity in mm/s RMS that is comparable to ISO 20816 standards. The meter has just 1 button for Power On/Off and is equipped with a Low Battery Indicator. It runs on a single 9V battery and uses IRD521 Accelerometer 100 mV/g to sense vibration. It is low in cost - but high in value. It can be given to Maintenance Personnel for use in Challenging environments because of its rugged build & easy Vibration Measurement



IRD306DP

IRD306DP is another Simple and Easy-to-use Vibration Meter that allows measurement of Vibration in Velocity mm/sec RMS as well as Displacement microns pk-pk. It makes use of IRD531 Velometer 4 mV/mm/sec to sense Vibration. It runs on single 9V battery and is equipped with Low Battery Indication, Kick stand and ISO 10816 chart for Convenience. Because of its rugged build - it can be given to maintenance personnel for Routine and Preventive Vibration Checks



IRD811D

IRD811D is our Vibration Meter cum Bearing Health Checker. It is able to measure Vibration Amplitude in Acceleration g pk, Velocity mm/s RMS and Displacement microns pk-pk. In addition to Vibration Amplitude measurement - it also allows assessment of Anti-Friction (Rolling Element) Bearing Condition via Spike Energy™. It runs on single 9V battery and is equipped with Low Battery Indication. The measurements of Vibration can be compared to ISO 20816 and Spike Energy™ to its chart



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Analog Vibration Meters



IRD306

In the era of dominance of Digital Vibration Meters - we have kept our Analog Vibration Meters alive - reason being that the deflection of the needle on an Analog Vibration Meter is able to depict the variation of Vibration better compared to a Digital Vibration Meter. IRD306 Analog is one such Vibration Meter that measures Vibration Velocity in mm/s pk and Displacement in microns pk-pk. It also has a Battery Test switch that helps assess battery condition.



IRD811

IRD811 is the Analog variant of IRD811D. Like its Digital Companion - IRD811 Analog is also able to measure Vibration Amplitude in Acceleration g pk, Velocity mm/s RMS and Displacement microns pk-pk. It adds the facility to view filtered 1400 CPM Displacement in microns pk-pk that helps filter out low frequency displacements. It also adds facility to measure Vibration Velocity mm/s pk. Like its counterpart IRD811D - it is also able to measure Spike Energy™ to help assess Rolling Element Bearing Condition

Feature	IRD301	IRD306DP	IRD811D	IRD306	IRD811
Acceleration	No	No	Yes	No	Yes
Velocity	Yes	Yes	Yes	Yes	Yes
Displacement	No	Yes	Yes	Yes	Yes
Spike Energy™	No	No	Yes	No	Yes
Sensor	IRD521 100 mV/g	IRD531 4 mV/mm/s	IRD521 100 mV/g	IRD531 4 mV/mm/s	IRD521 100 mV/g

Vibration Analyzers & In-Situ Dynamic Balancers



We are authorised Distributors for B&D Industrial make Vibration Analyzers and Balancers - <https://vibepro.com/monitoring-solutions/vibration-analysis/> These instruments allow user to perform Vibration Analysis and Dynamic Balancing. The entire capabilities of the instruments are:

- Vibration Time Waveform and Spectrum Capture
- Route Based Data Collection
- Viewing of Data on PC
- Cross Channel Phase Measurement
- Bump Test for Natural Frequency Detection
- Single Plane and Two Plane Dynamic Balancing
- Bearing Lubrication Analysis
- Thermal Imaging
- Wired Sensor variant as well as Wireless Sensor variant





Associated Services

Repairs and Calibration

We provide Repair and Calibration Service for the Instruments and Systems manufactured by us. We can also help verify the Calibration of Third Party Vibration Monitoring Systems using our Portable Shakers. Our Equipment used for Testing carries Calibration Traceability to National and Internal Standards and is Calibrated once every year from a NABL accredited lab. We suggest Annual Calibration for our supplied Instruments and can also perform the Calibration on-site if needed. Calibration ensures confidence in measurement. We also have a Help Center on our website which contains articles on how to operate and maintain your IRD Instrument properly - in order to ensure many years of Usage



Training & Commissioning

We have a team of trained engineers and technicians that can help demo our Portable Instruments and commission it thereafter. These engineers and technicians can also perform Site Acceptance Test (SAT) as per approved Quality Assurance Plan (QAP) and can also perform On-site Calibration and Healthiness checks if needed. Commissioning service can be availed from us on a per day, per visit or lump sum basis. We recommend getting our Portable Instruments commissioned by us for best results



Some Frequent Customers



Guide to choosing the Right Portable Instrument



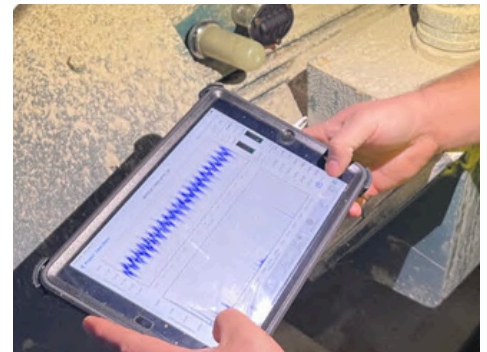
Situation	Right Choice
Need a Low Cost Vibration Meter that you can buy in many numbers and handover to each member in Operations and Maintenance or Condition Monitoring?	IRD301 Vibration Meter
Need a Vibration Meter which can measure both Vibration Velocity and Displacement and still economical enough for handing over in many numbers to Operation and Maintenance or Condition Monitoring personnel?	IRD306DP Vibration Meter
Need a Digital Vibration Meter that can also do Healthiness checking of Rolling Element Bearing?	IRD811D Vibration Meter cum Bearing Health Checker
Need a rough and tough Analog Vibration Meter for simple Vibration Velocity and Displacement?	IRD306 Analog Vibration Meter
Need a rough and tough Analog Vibration Meter that can do Bearing Condition assessment as well as be used onboard Ships and Vessel?	IRD811 Analog Vibration Meter cum Bearing Health Checker
Need a Sophisticated device that can help measure not only Vibration Amplitude but also Frequency and Phase for Vibration Analysis and Dynamic Balancing?	B&D Industrial VibePro Vibration Analyzer and Balancer
Need help in Elimination of High Vibration Problem despite having all required Tools?	Avail our Consulting Services
Need help in Learning Vibration Basics and Characteristics?	Avail our Training Services



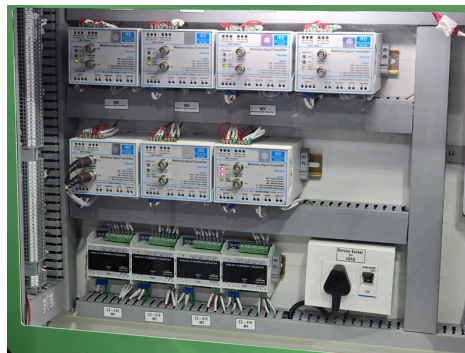
Condition Monitoring Solutions

Help turn Maintenance into a Profit Center

Portable Instruments - Vibration Meters & Analyzers



Online Systems - Sensors, Transmitters & Protection



Associated Services - Training, Consulting, Calibration

