

DigivibeMX®

Vibration Analyzer, Data Collector
& Dynamic Balancer

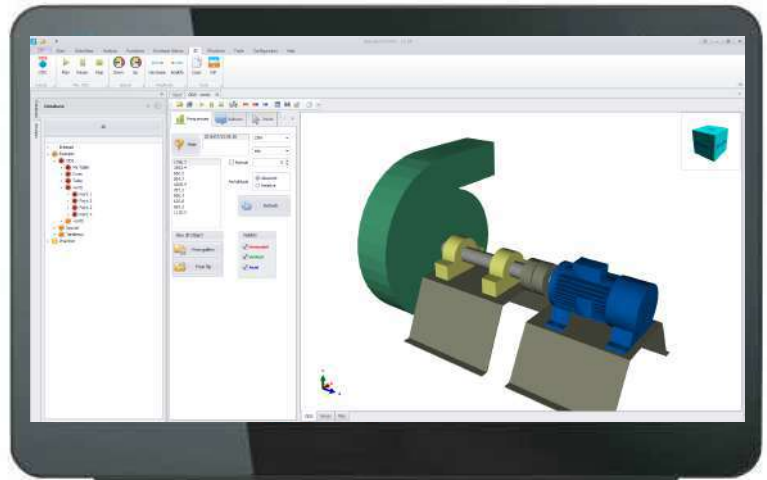
The most complete, reliable and productive **Dynamic Balancing** and **Vibration Analysis Device**



Only for illustrative purposes. Computer is not included, see page 6 for more details.

Overview

DigivibeMX M30 is the most complete, reliable and productive dynamic balancer, vibration analyzer and data collector that allows you to perform balancings on the field and on balancing machines, analyze complex vibrations and save all your data in the embedded database. Its use is very intuitive and simple to use, also includes advanced tools for more experienced users.



DigivibeMX M30 includes a database where you can store and manage all your machinery to keep a registry.



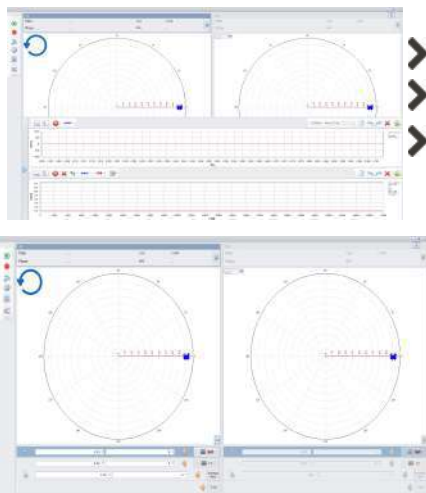
With a single click you can start balancing.



Advanced, but simple

With a single click you can easily take data and run complex analysis.

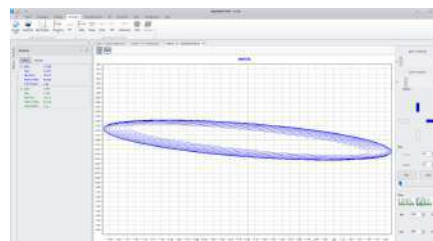
Dynamic Balancing Tools



- **Balancing in 2 runs***
- **Polar** graphics
- **Balancing** calculator for:
 - Single and two plane
 - Split and combine weights
 - Trial mass calculator
 - Serial balancing (without test weight)
 - Residual unbalance
 - Drill depth (remove mass)
 - Plate size

Dual Channel Functions

Dual channel analysis has huge advantages, not only because it saves time for the data collection, but also because it allows obtaining information that could not be acquired with a single channel analysis.



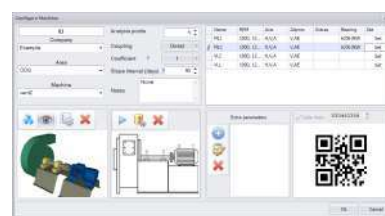
- **Orbit** analysis
- **Cross Power** Spectrum
- **Frequency Response** Function
- **Coherence** function

Cloud Databases & Online Monitoring

DigivibeMX M30 allows you to save your data directly to the Erbesd Instruments cloud database. With this, you'll be able to monitor your information using any device with an internet connection.



Machinery Database

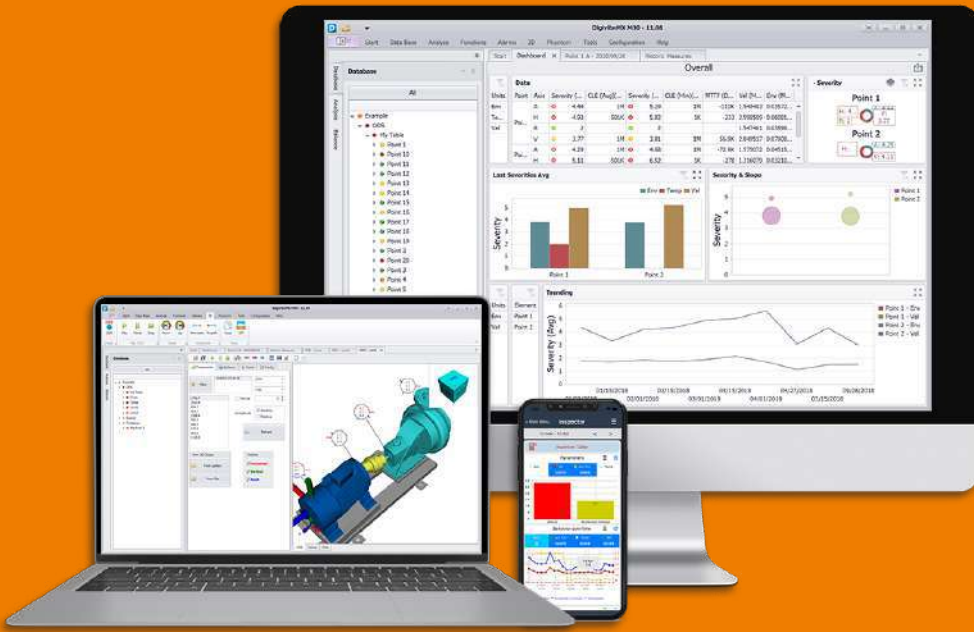


- Name, Area & Company
- Measurement Points
- Coupling joint
- ISO Class

Compatibility



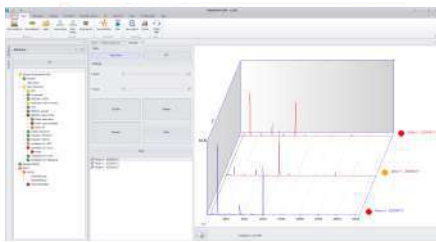
- ASCII files
- UFF58 files
- ANL BAL files



Take a shot.
Get the data.

DigivibeMX M30, can access quickly to your machine information, with a single click.

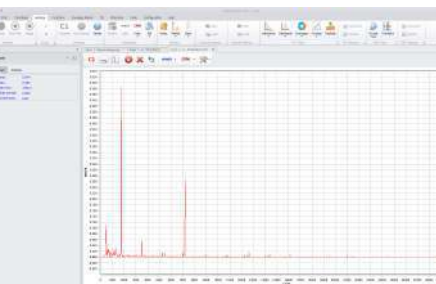
Predictive Analysis Tools



DigivibeMX M30 allows the user to perform predictive analysis of any machine located in the Machines Database.

- Machines database and routes
- + 20 000 bearings database with dimensions and working speed
- Interpretation and diagnostic tools
- Cascade spectra

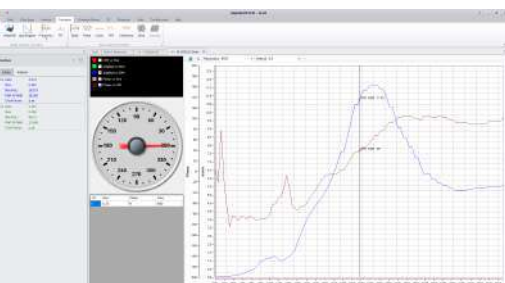
FFT Spectra



Most of spectral tools in DigivibeMX M30 are based on the FFT algorithm, capable of measuring low frequencies (1 Hz) up to 10 kHz. The accuracy of the spectrum varies according to the needs, reaching many million of resolution lines.

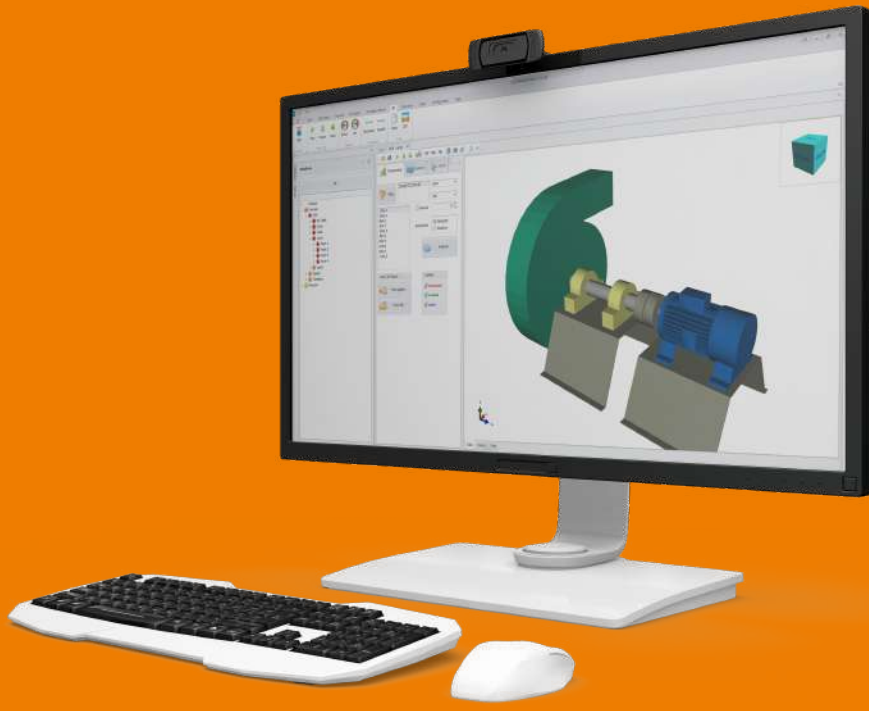
- Million points spectrum resolution
- Spectrogram
- 3D spectra

Advanced Analysis Functions



The advanced vibration analysis allows the diagnose of complex failures, relation between points, vibration modes and structure analysis.

- Crest Factor
- BODE Diagram
- RPM vs Time
- Amplitude vs Time
- Bump Test



DigivibeMX M30 integrates the **ODS Simulations** in all its machinery databases.

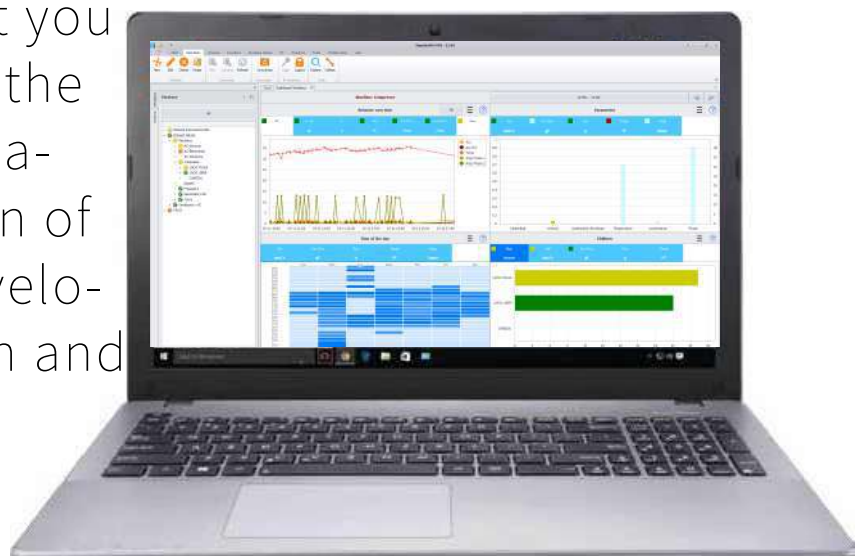
ODS Analysis

ODS Analysis is now an easy task to do, no more complex drawing interfaces and complex calculations, **just create your 3D model** in your favorite 3D software and import it into the software in order to make a custom ODS analysis. All 3D simulations can be exported to AVI video format and animated GIF images compatible with any operating system.

Tendency Graphics

The tendency window will let you make a complete analysis of the behavior over time of your machines, showing the evolution of parameters like, velocity, envelope, temperature, acceleration and many more.

Also you can send all this information to our clouded database.



DigivibeMX M30 includes:

4-Channel interface



4-pin LEMO® Connectors
(Ch 1-A, Ch 1-B, Ch 2/Op & USB)

Active Plane Indicator
(LED 1-A & LED 1-B)

Channel Auto Switching*
*Only with DigivibeMX® 11

IP 67 Protection grade

4-pin LEMO® to USB Cable (1m/3ft)

Dimensions: 67 x 74 x 22 mm / Wt. 100g

Cables



Soft case



2 Accelerometers



Dinamyc Impact Shock: 50g peak (max shock 5000g)

Freq. response (+/- 3dB): 0.32 - 13000 Hz

Freq. response (+/- 5%): 2 - 10000 Hz

Sensitivity: 100 mV/g +/- 10%

Transverse sensitivity: < 5%

Power supply: 18-30 V / 3-8 mA

Short-circuit protection

Operation temp.: -10 - 50 °C

Protection grade: IP 60, III

Impact resistance: IEC 60028-27

Standard 2-Pin MIL connector

Includes 2-Pin to 4-Pin cable and Magnetic Base

Weight 50g

Stainless steel body

Laser Tachometer



Analogic output / Range: 1 - 5000 Hz

Power and current supply: 5V , 20 - 30 mA.

Voltage drop: <0.4 V

Short circuit, Reverse Voltage and Over-Voltage (15V for 1min) protection

Operation distance: up to 15 m

Operating temp: -10 - 50 °C

Storing temp: -40 - 85 °C

Protection grade: IP 67, III

Impact Resistance: IEC 60028-27

Weight 60 g

Nylamid body

Software highlights

Displacement: 0.5 um to 30 mm (0.02 to 1200 mils)

Velocity: 0.002 to 3000 mm/s (0.0001 to 120 in/s)

Acceleration: 0.0001 to 100 G's PP

Lines of resolution: > 2 000 000

FFT windows: Rectangular, Hanning, Hamming, Flaptop, Blackman, CosSum, Bartlett, Kaiser

Measures: Peak, Peak to Peak, RMS

System requirements.

Minimum requirements for the computer or tablet* where **DigivibeMX M30** will be installed.



- Processor INTEL i3 or higher
- 4GB RAM DDR3 or higher
- Windows 8.1 or 10 (64-bit required)
(All updates installed)
- SVGA display or higher (touch enabled displays are supported)
- 1GB minimum free hard disk space
- Internet connection (For activation)

*Windows RT devices are not supported.



Accessories

DigivibeMX M30 fits with all your machinery using our wide range of optional accessories to increase the performance.

Phantom Wireless Sensor



Phantom is the best all-inclusive battery powered wireless machine monitoring system world wide

Take measurements for Vibration, Temperature, Velocity, Current, and any other parameter with compatible sensors using the General Purpose Phantom

And the best news about it? Now they come with Modbus TCP/IP compatibility.

Wiser3x Accelerometer



The only 3-axis Wireless Accelerometer in the industry capable of on and off-route vibration analysis and balancing.

Shielded Cables



A wide-range of shielded monoaxial cables with 4 or 5 Pin security connectors on both ends. Suitable for Accelerometers and Optical Sensors.

Tri-axis Accelerometer



Weight Scales



200 g, 500 g and 1000 g

More accessories and spares visit our online store: www.erbessd-instruments.com/store

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