

IMXA-460™ Intuitive VibCollector



Main Menu 15:19

DATA COLLECTION ANALYZER BALANCING
 BUMP TEST CONF CHECK FRF
 RECORDER RUCD INSTRUMENT SETUP

Help About

ConfCheck 16:21

View Stored Measurements Custom Templates Standard Templates

Use arrow keys to select the required function and press the 'Fire' key to proceed.

Home Help

Measurement Results 16:15

Pos	Dir	Disp	Vel	Accel
1	Hor	Rough	Rough	Good
	Ver	Rough	Rough	Good
2	Hor	Rough	Rough	Good
	Ver	Rough	Rough	Good
3	Hor	Allowable	Just Tol	Good
	Ver	Good	Good	Good
4	Hor			
	Ver			
5	Hor			
	Ver			
6	Hor			
	Ver			

Use up/down arrows to select measurement. Press Fire to take measurement. Left/right arrows toggle between grade/value. Press 0+F1 or 0+F4 to scroll through columns.

Cancel Graphic Skip Finish

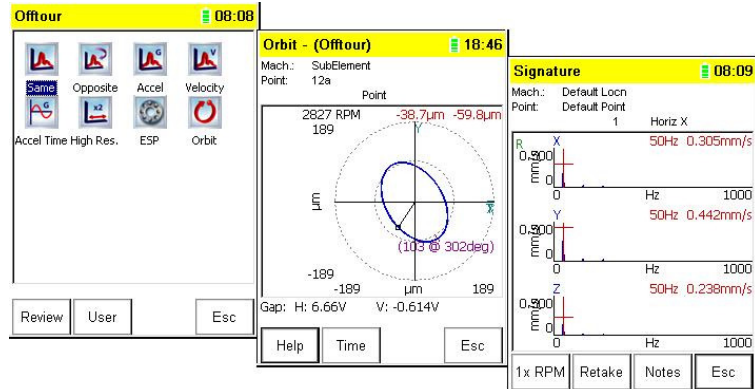
The concept

IMXA-460™ is a powerful, real-time, data collector. Designed to simplify the task and increase the speed of collecting condition monitoring data. It is ideally suited for use in a wide range of industries such as paper, petrochemical and primary metals.

The **IMXA-460™** is capable of measuring, processing, displaying & storing a wide range of measurement parameters. It can collect various types of field data, including vibration information, bearing assessment and process variables. **IMXA-460™** enables you to expand its functionality by adding new modules to enhance your analysis capabilities. Simply choose the module required and upload it to the **IMXA-460™**.

Key features

- Portable & Rugged
- Bright colour display
- 2 channel data collection
- Unfiltered and Filtered **ORBIT**
- Modular in nature
- With **VibAnalyst™** Software
- **ISO 10816** Checks Optional
- Windows CE
- Expandable application modules
- USB/IR & RS-232 communication
- **IP 65** rated
- CSA - Class I Div 2 Group A,B,C,D
- **CE** Marked
- **ATEX Zone 2** Optional



Optional Modules:

Analyser Module

- An easy to use FFT analyzer with on-screen phase vector readout.
- Displays Spectrum FFT, Oscilloscope, and live data

Bump Test Module

- Bump test application for determining resonance frequencies
- Natural frequency of Turbine blades
- Crack Detection in structures
- Structural integrity testings

Check to Conformance

- Conformance check module, to assess machinery health in accordance with industrial standards (ISO,BS, API etc)
- Allow users to define their own standards.
- Machine type Category based templates
- ISO 10816 Compliant templates

Balancing module

- Stand alone balancer (static & dynamic couple, single or dual plane).

Allows 1 or 2 planes of balancing fans/ shafts/ impellers.

Data Recorder

- Record live vibration data and saves time signature in WAV file format, for later processing.

Frequency Response Function

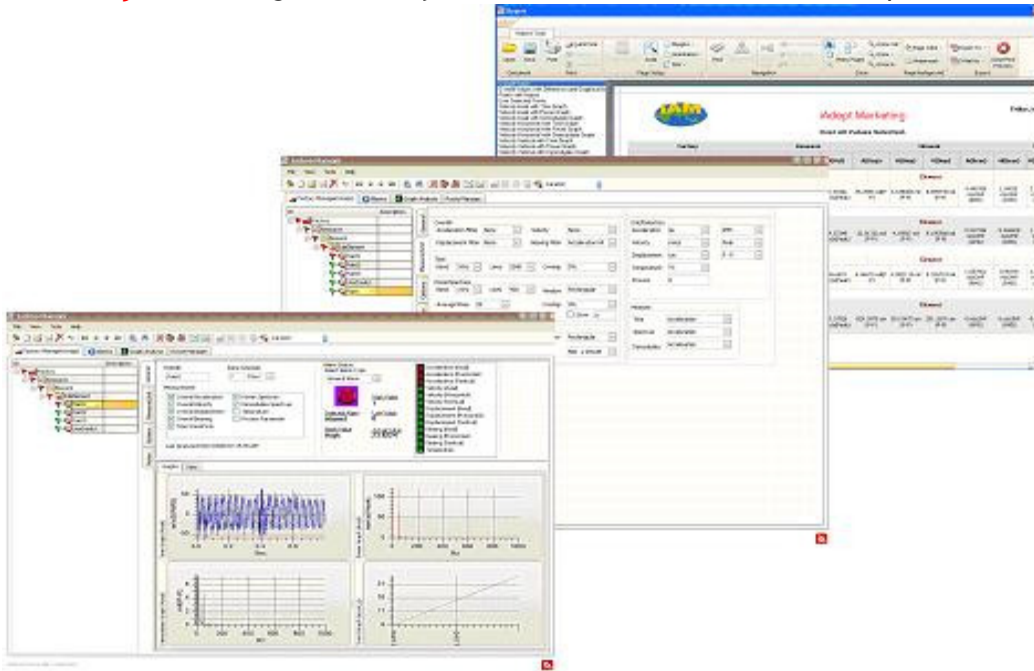
- Performs modal analysis using a calibrated hammer for excitation.
- Measurements can be exported to external software to calculate and animate the Operating Deflection Shapes (ODS).

Run-Up Coast-Down

- The run up coast down module, used to record and analyze data from machines where noise or vibration levels are changing with speed or are changing with time.
- Allows analysis of run-up and coast-down cycle of machines

VibAnalyst™ – Route Management and Vibration Analysis Software

VibAnalyst™ is the Latest State-of-Art Vibration Route Management and Vibration Analysis Software. It is Compatible with current versions of applications running on 32 bit or 64 bit operating systems. VibAnalyst™ has high versatility of features and carries several Unique Attributes.



Functions & Functionalities

VibAnalyst™ incorporates a large array of functions & their functionalities within itself. Unlike other similar software VibAnalyst™ is composite whole software. It does not involve smaller modules to achieve data management and data analysis. It is integrated software managing, data / graph zoom / area display, alarm / cursor management and single, dual or multidimensional analysis. The principles of multiplicity, flexibility & customization play great role in these functionalities. The defaults have been provided in all functionalities to help the new user but more experienced user can set functionalities as per his liking.

Features:

- Five levels hierarchy
- Use for Ever - Comes without a time lock or upgrade compulsion
- Comprehensive Route uploads and downloads to Data Collector
- Extremely User Friendly Operation and Navigation
- Runs and is compatible with Multiple Databases
- Simple to learn and master with basic skill sets
- Exceeds Common Requirements of Analysts
- High Resolution displays
- Cost Effective and Intuitive

VibAnalyst™ is application oriented software and is available in 2 abridged versions. VibAnalyst™ Lite for small and start up users and VibAnalyst™ 440 for IMVA-440™ Vibration Analyzer.

IMXA-460™ Specifications

Input types: ICP™ and self powered transducers, Acceleration, velocity, and displacement from hand-held or installed vibration sensors or monitoring systems. Inputs: 2 ICP™, AC signals, DC signals	Dimensions 186 x 93 narrowest 186 x 134 widest Weight: 700 g (1,5 lbs) PREPROCESSING
Transducer check: ICP™ open circuit check, Triaxial-Accelometer	Envelope (demodulator): ESP™ With five (5) selectable input filters for enhanced bearing and gear mesh fault detection.
Input channels: Channel 1 , Channel 2 AC/DC/ICP sensors, Temperature sensors, Keyboard Entry or Coded Notes Tachometer: Tacho input ±40 V, tacho supply +5 V	Display : 1/4 VGA colour TFT screen --Spectrum, two-channel time, phase table, process, orbit, cross channel phase and two-channel FFT. --Simultaneous spectrum, time waveform, peak hold averaging.
MicroProcessor: 400 MHz X-scale – Intel PXA255 Dynamic range: 96 dB (20 bit sigma-delta ADC)	Droptest: 2 metres (6,5 feet) - to MIL-STD 810 specifications
Auto range: Yes	Sealing: IP65 (dust/ water proof) CE rated
DSP processor: MOTOROLA® DSP56307	Temperature ratings: -10 to +50 °C operating temperature -20 to +60 °C storage temperature
Averaging type: Linear, synchronous time and continuous	Hazardous area: CSA – class I, division 2, groups A, B, C, D. ATEX Zone 2 (optional)
Measurement windows: Hanning, flat top and rectangular	Humidity: 95% non-condensing
Frequency range: <i>Route measurements:</i> 0.18 Hz to 40 kHz	Operating system: Windows CE.Net v4.2 (core only)
Real time rate: 40 kHz single channel	Battery: Li-Ion smart battery pack 8 hours continuous operation
FFT resolution: 100 to 12,800 lines	Battery recharge: Via mains or cradle Battery can be charged in the collector
Communication: Active sync via USB, IrDA or RS232	PC card: PCMCIA type II CF card: Compact flash type II
Internal storage: 64 Mbyte (capable of storing approx 4,000 spectra)	MMC/SD card: MMC/SD memory card Printer output: PCL/Pentax pocketjet or equivalent



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