

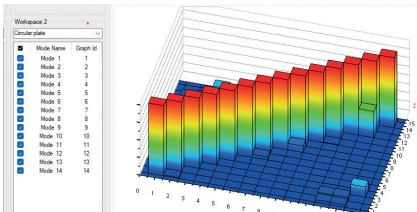
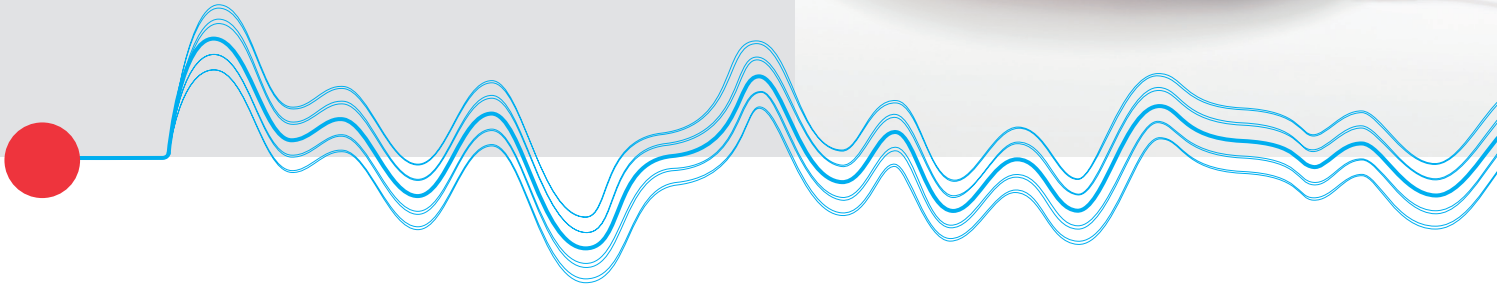
# m+p Analyzer

## Capture Structural Dynamics via Experimental Modal Analysis



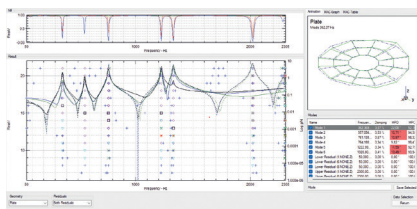
**m+p Analyzer** delivers comprehensive modal analysis from impact to virtual model validation.

It supports all experience levels in experimental modal analysis. Staying on top of the data is easy through the step-by-step geometry guided measurements. Automatic storage and display of data quality during test ensures a fast and uninterrupted continuous execution. You are well protected against data loss. Frequent configurable database back-ups allow data recovery and rollbacks whenever you need, protecting your data. Improve your digital models by seamlessly comparing measurement and simulation.



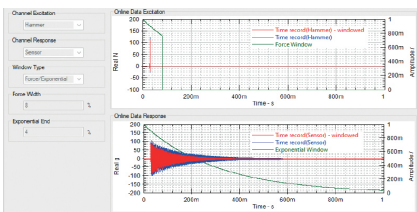
### Compare Measurements and Simulations

**m+p Analyzer's** direct display of MAC values between individually selectable mode sets allows easy assessment. It is your all-in-one tool and includes specialized software functionality for validation as modes are imported directly from finite element results. Response functions for your whole test specimen are calculated, even covering hard to excite and narrow locations.



### Automatic Pole Selection

**m+p Analyzer** enables you to precisely identify modal parameters for both lowly- and highly-damped structures. Comprehensive stability diagrams using state-of-the-art algorithms and automatic pole selection give you head start, avoiding lengthy trial-and-error pole picking. Various quality criteria ensure that the preselected poles deliver an accurate modal model.



### Accelerate Your Modal Testing

With **m+p Analyzer**, you gain access to smart tools allowing for perfect set-up of your experimental modal analysis. You can master even demanding measurement tasks like soft excitation locations or minimal damping. The window tool and auto-ranging, among others, assist setting measurement parameters to achieve high quality data.



### Global Service Support – Help is always around the Corner

**m+p international's** network of service experts and partners provides fast remote and on-site support. Our comprehensive service offering allows you to keep your software up to date, achieve regulatory compliance, maintain high performance, and maximize uptime throughout the life cycle of your equipment.

## m+p Analyzer for Experimental Modal Analysis

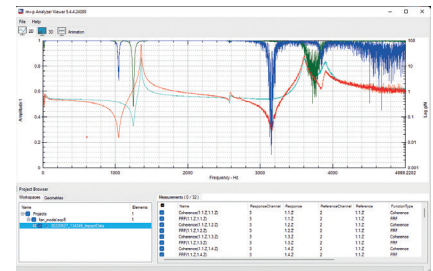
- Full modal analysis toolchain in one software
- Geometry guided data acquisition, also compatible with CAD models
- Roving hammer and roving sensor to fit your laboratories equipment
- MDOF and SDOF algorithms with automatic pole selection
- Multilingual, configurable, and clear user interface supporting multi-monitor use
- Calibration assistants for sensors and impact hammer
- Live data access through Matlab and Python
- Multiple export file formats and customizable report generator

## Features

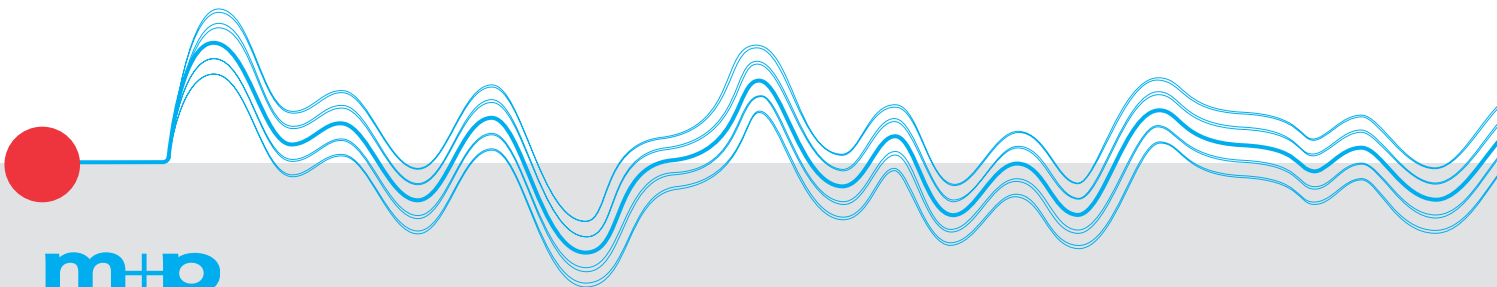
Modal analysis algorithms	Polytime, Polytime Plus, Poly Frequency, Single DOF, Circle Fit
Exchange file formats	ASCII.TXT (.txt) and ASCII.CSV (.csv), Matlab® (.mat), Universal file format (.unv)
Measurement assistants	Guided measurements, auto-range, force window parameter identification, hammer and sensor calibration, automatic trigger setup, and more
DAQ hardware	m+p VibRunner, m+p VibPilot up to 200 kHz sample rate, National Instruments, Spectrum Instrumentation's Digitizers, from 2 to several hundred channels
Postprocessing	Full dynamic signal analysis and processing, live processing directly in data chart, smart cursors, integrated calculator, saving and copying charts as images

## Share Your Data with Colleagues for Free

The free m+p Analyzer Viewer lets you and other relevant persons evaluate the same data displays, even if they don't have a full m+p Analyzer license. The most important data analysis operations are available, sharing the value of your m+p Analyzer license with others and letting them look at the measured data from their individual perspective for free.



m+p Analyzer, m+p VibControl, m+p VibPilot and m+p VibRunner are products of m+p international. All trademarks and registered trademarks are the property of their respective holders. Specifications subject to change without notice.



**m+p**  
international

[www.mpihome.com](http://www.mpihome.com)

**GERMANY**  
m+p international Mess- und  
Rechnertechnik GmbH  
Phone: +49 511 856 03-0  
sales.de@mpihome.com

**USA**  
m+p international, inc.  
Phone: +1 401 487 2977  
sales.us@mpihome.com

**UNITED KINGDOM**  
m+p international (UK) Ltd.  
Phone: +44 1420 521222  
sales.uk@mpihome.com

**FRANCE**  
m+p international SARL  
Phone: +33 130 157874  
sales.fr@mpihome.com

**CHINA**  
m+p international China Co., Ltd.  
Phone: +86 512 6510 0765  
sales.cn@mpihome.com