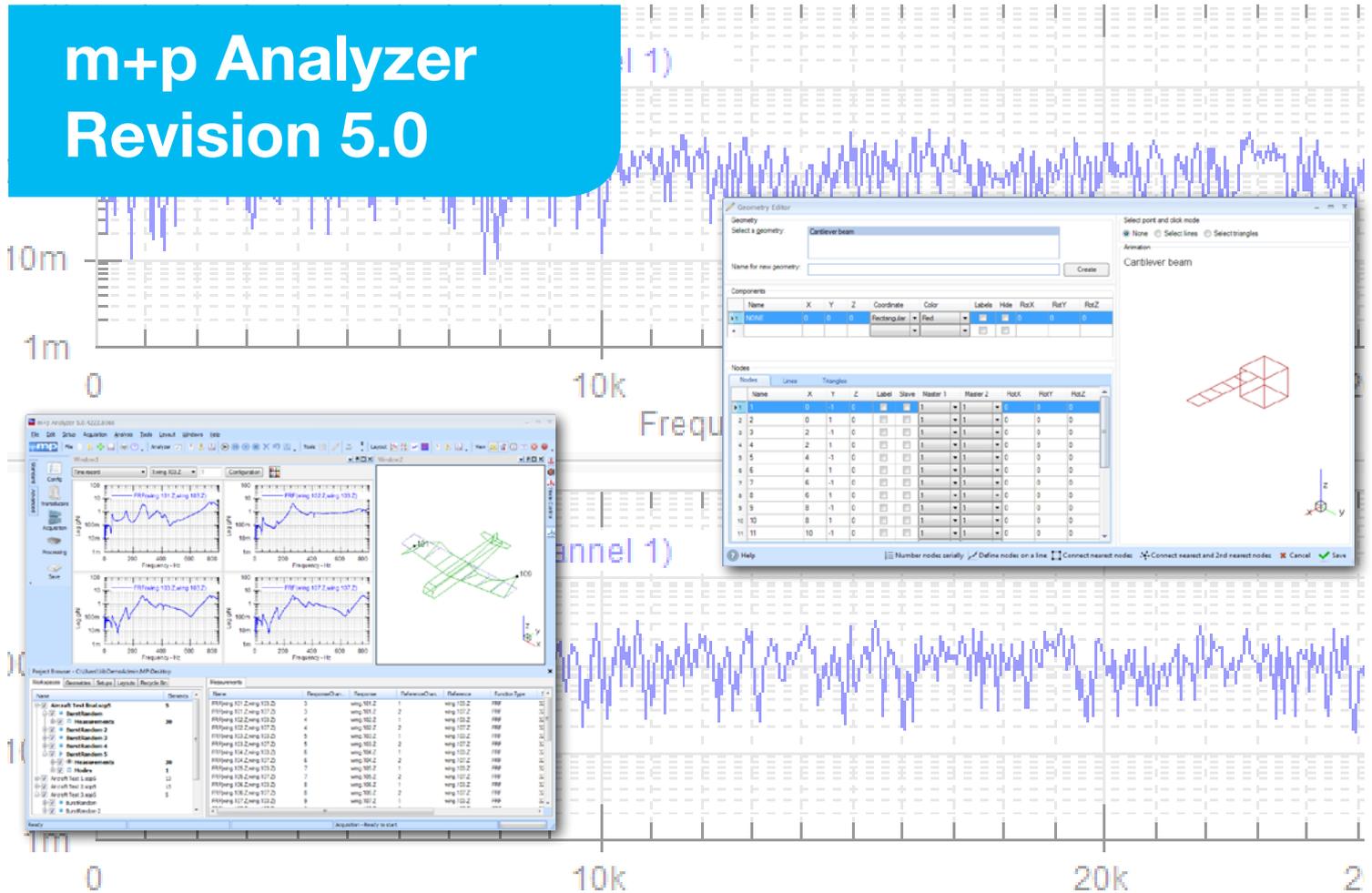


# m+p Analyzer Revision 5.0



- New NVH Software Generation
- Advanced Database Storage
- Easily Compare and Combine Data Archives
- Take Full Advantage of 64-bit Windows Capabilities
- New Windows Docking and Task Panels Management
- Enhanced Browser Layout and Tree/List Functionality
- Multi-Chart Viewer
- Enhanced Menus and Toolbars
- New Geometry Editor for Modal Analysis
- New Geometry Guided Measurements

## New NVH Software Generation

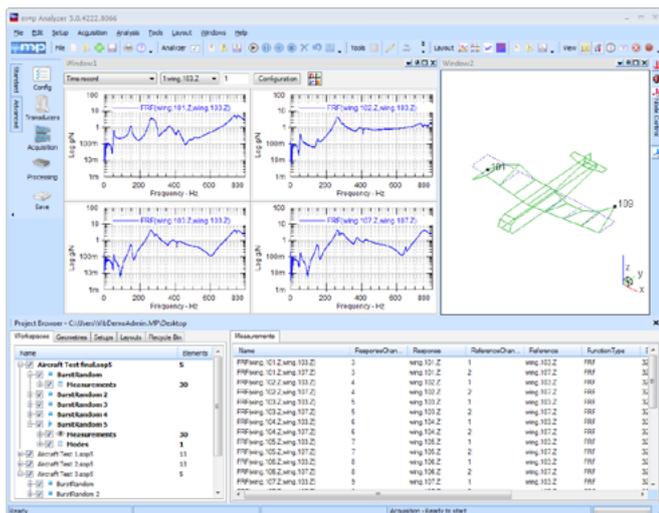
m+p Analyzer replaces the former SO Analyzer generations of m+p international’s flagship measurement, analysis and reporting software. The new product platform provides significant 64-bit performance enhancements and massive increases in data handling capability while retaining all the convenience and simplicity of operation that users are familiar with in our previous products. The core of m+p Analyzer is a high performance SQL database storage system offering virtually unlimited high integrity storage to safeguard valuable data and provide unrivalled data management capability. Coupled with this is a new style graphics user interface that has a familiar layout but includes many productivity enhancements for even greater flexibility and an improved user experience. Graphics performance is particularly improved for large channel counts and high real-time rate displays without losing the simplicity of use for smaller system applications. All the post-process, analysis and reporting applications have been reengineered and enhanced to ensure m+p Analyzer continues to offer a complete solution for vibration testing and all NVH requirements.

## Advanced Database Storage

Direct to file storage using a high speed industry standard SQL (Structured Query Language) database provides secure, fast and efficient data storage limited only by disc space. The use of state-of-the-art SSD (Solid State Disc) technology further enhances this feature providing typically 10 times the data read/write speed of standard discs. Because storage is file based, data integrity is ensured and very little time is required to open, close and recover data from even very large database project files. Being SQL-based means that data can be organised and displayed in more flexible ways than previously possible and this is now completely under user control after measurements are completed or data is loaded from other sources.

Automatic data backup and recovery are also implemented for complete confidence that your data is safe under the most extreme of circumstances.

## Easily Compare and Combine Data Archives



Project browser with multiple projects loaded

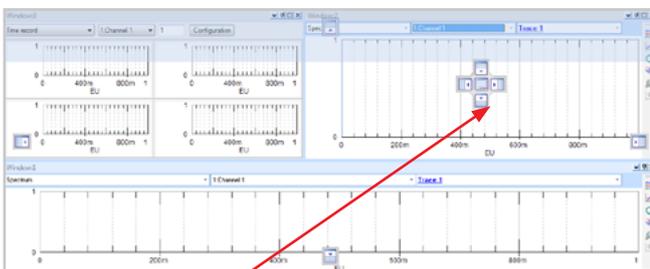
A key new feature is the ability to open multiple project files in the browser so that data exchange, comparisons with archived data and data searches across multiple projects are possible no matter how many project files you have saved. Being a standard SQL database also offers the opportunity for your data to be handled by other SQL-friendly search tools plus, of course, m+p Analyzer continues to offer comprehensive import/export between many industry standard data formats.

Of course 100% compatibility with existing project files is maintained with automatic conversion to the new standard for all data.

## Take Full Advantage of 64-bit Windows Capabilities

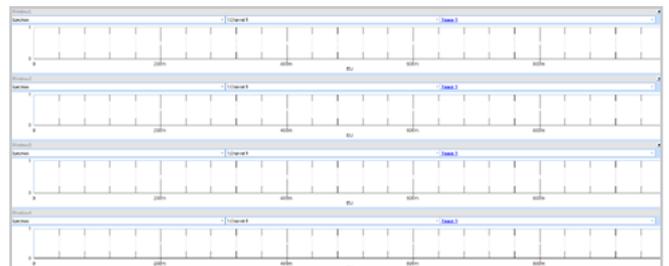
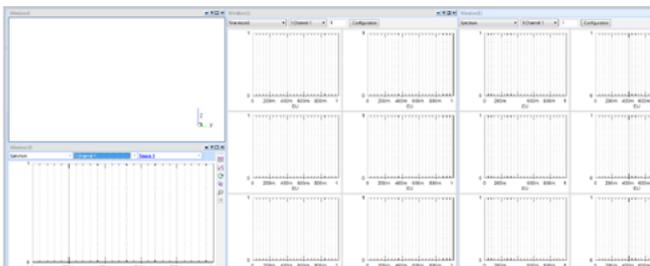
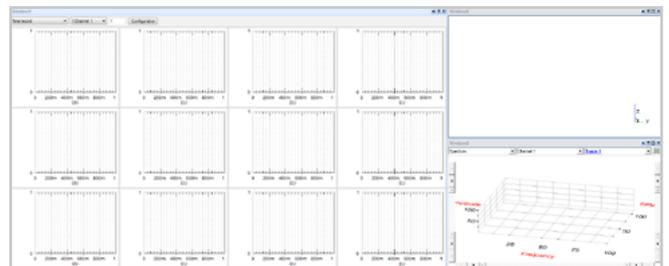
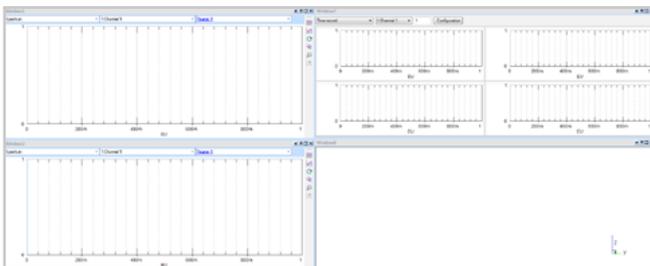
m+p Analyzer takes full advantage of the large memory capabilities of Windows 64-bit. Compared to the limitations of 32-bit systems the full 64-bit memory capability of the PC is available meaning that much larger channel counts, longer recording times and many more result functions can be handled quickly and efficiently. Coupled with the high-speed database storage means the largest of projects can be handled without difficulty and of course organising, sorting, searching, filtering and managing these large data sets is significantly improved by the fast and efficient SQL-based technology.

## New Windows Docking and Task Panels Management



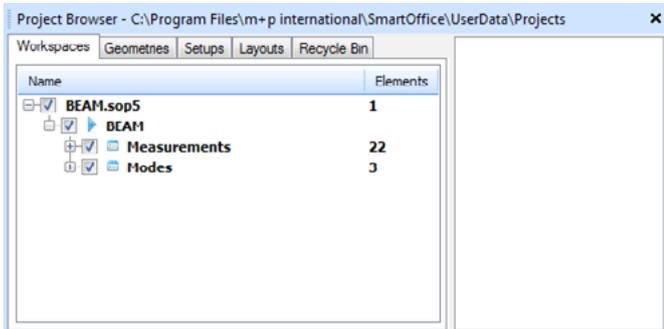
Window positioning tool

Using the extremely powerful docking and task panel features of the latest windows tools makes setting up your optimum m+p Analyzer project mainframe simpler than ever. Gone is the old MDI “arrange” windows approach replaced by auto-sizing display layouts limited only by your imagination. Of course, any window can be undocked to show it on another monitor for example and whatever you choose can be saved as a layout file, used as your default or reloaded at any time to suit your present requirements.

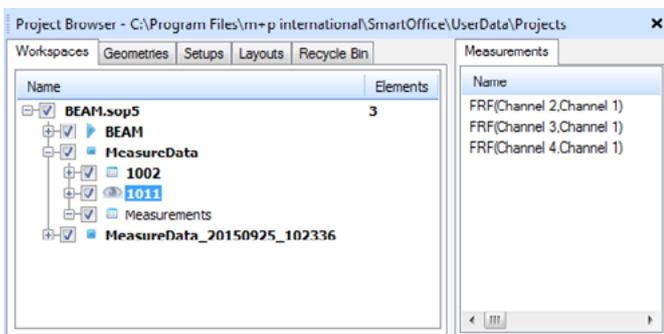


Different window arrangements

## Enhanced Browser Layout and Tree/List Functionality



The new browser has been reorganised into different tables to direct the user more quickly to the relevant section of data. The familiar structure of workspaces containing related measurement sets has been retained but now these are not pre-grouped as part of the measurement setup. The new SQL-based grouping feature is a powerful way to organise and select your data by both common pre-defined header types or by user-defined searches to suit your specific needs.



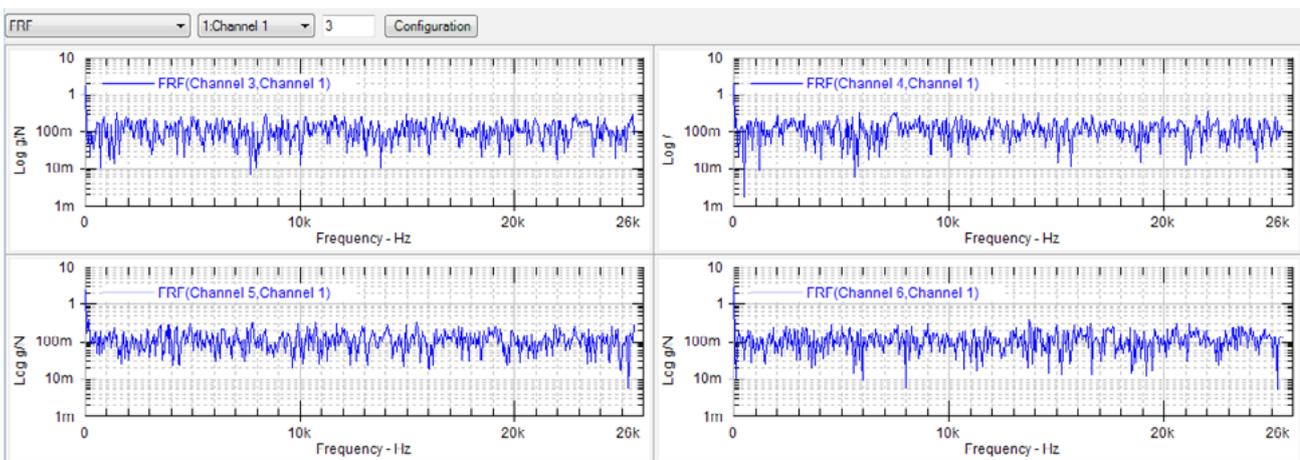
Adaptable context-driven menus and mouse click operations, particularly in the left-hand tree view window, make handling data more user-obvious with selection, drag/drop to chart, moving data etc. now all available within that one view. Multi-select operations are available across workspaces to aid data processing and organisation.

Individual tabs grouping

The list view also has a new column configuration setup dialog with format save and load from file to suit different application requirements. A user default can be saved to fully customise your view of all data types.

Use of the SQL database storage enables large data sets to be selected and rapidly moved for reorganisation or dropped into charts for display. Coupled with the powerful SQL-based grouping, sorting and filtering provides significant improvements in efficiency and faster processing of data.

## Multi-Chart Viewer



Multi-chart viewer

Together with the new flexible docking window feature the new improved multi-chart viewer makes setting up chart displays incredibly simple to operate.

The new chart select tool allows from 1 to 64 charts to be included in one window with your preferred aspect ratio. Then the number of channels per chart and start channel selection fills the charts automatically with any number of data. Hence even display of 256 independent channels or more is achieved in a few mouse clicks. Once setup, layouts can also be saved, set as user default or loaded for the particular requirement.

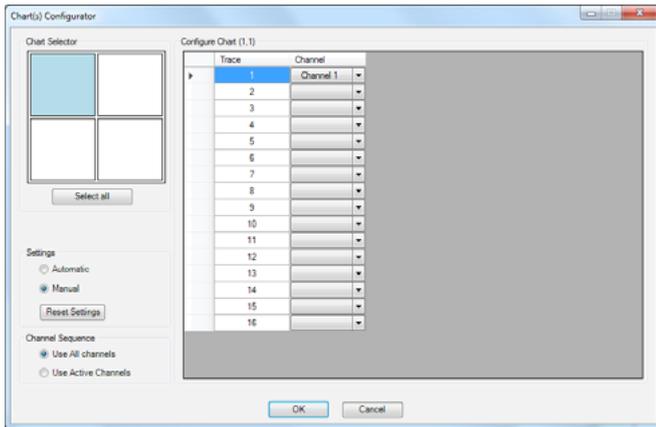
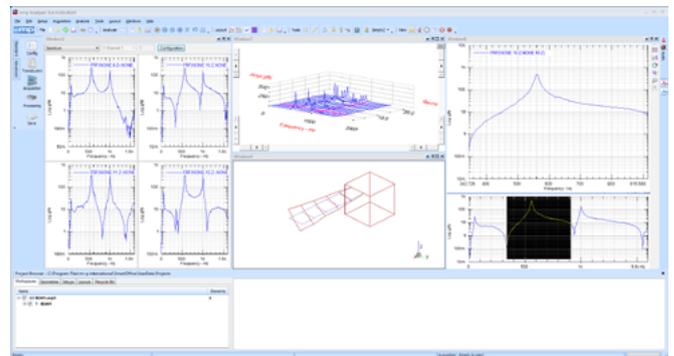


Chart configurator

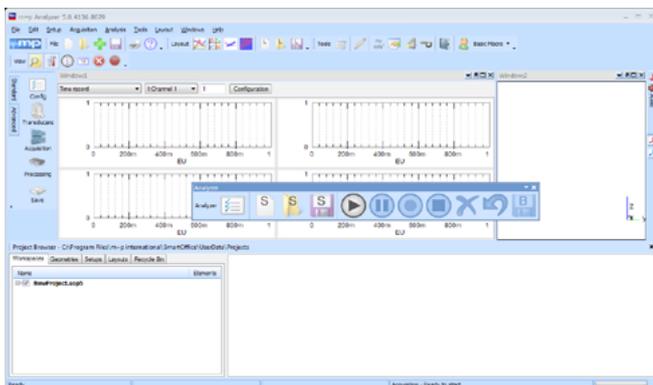
Chart windows are multi-threaded which means that display update rates for large numbers of charts are significantly improved when using modern multi-processor CPUs with parallel processing capability.

The single chart functionality with split screen zoom is retained from previous versions together with animation, 3D waterfall etc. and these can be mixed and matched with other windows in any combination.



Various display options combined

## Enhanced Menus and Toolbars

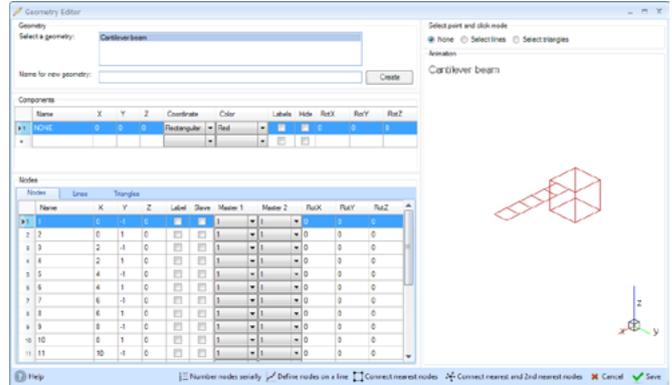


New menus and toolbars

The classic functionality has been combined with new features into a rearranged selection of menus and toolbars. Each is user configurable, can be positioned as preferred and even undocked (e.g. to provide a separate m+p Analyzer control window). Once setup this automatically becomes part of the application layout. Different settings can be saved and reloaded as needed.

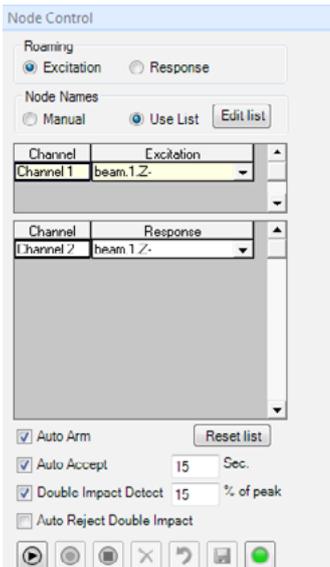
## New Geometry Editor for Modal Analysis

The previous geometry creation wizard has been replaced by a more functional editor featuring multiple tabs with an animation viewer alongside to make the process of creating or editing geometries more efficient. Node counts are now unlimited and new tools such as auto-creation of lines and automatic node connections and surfacing significantly simplify this operation.



Geometry editor

## New Geometry Guided Measurements



Node control window

New control panels replace the previous impact wizard and geometry guided modes used for taking modal analysis measurements linked to geometries.

The classic method of a fully guided set of measurements from a pre-defined geometry and points list makes this the easiest to use for single-handed operations. Alternatively, points can be defined as required for each measurement in sequence even without any pre-defined geometry. For full flexibility any combination between these two cases is possible so a pre-arranged points list can also be freely edited as needed during a run.

Also different points lists can be defined for a single geometry and stored for recall when required during a sequence of different runs.

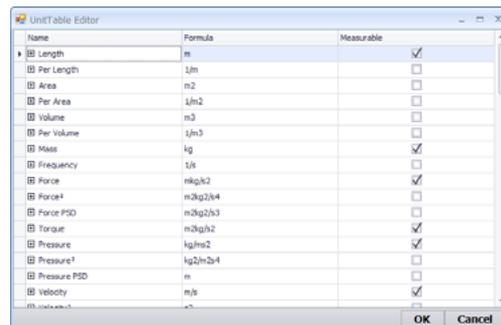
Measurements during a run can be previewed and edited as needed retaining all the excellent features in previous versions but extending this to include shaker-based applications.

## Many Other New Features

A number of other enhancements include user tool features such as:

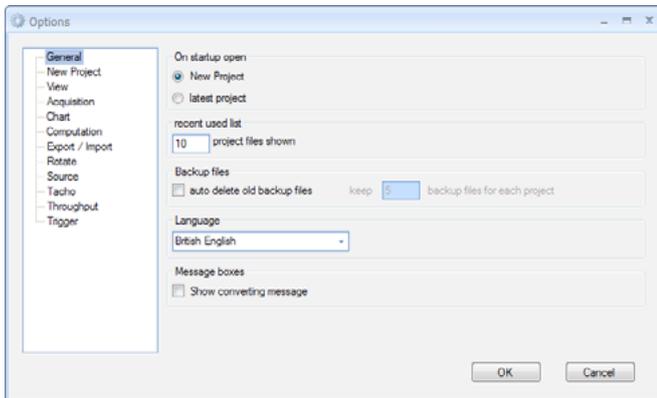
### Units Editor

The m+p Analyzer units manager has been further enhanced to allow the user to add and edit the units conversion database online. This includes selection of “measurable” units so that new units can be easily added to the channel setup tool. All dB references and scaling parameters are easily changed as needed.



Units editor

## Options Setup for Customisation



Options setup

There are many custom settings available that were previously accessible only by registry entries often via user program macros. The most useful of these are now included in a user options window for real-time selection as required. Once configured these are automatically retained in the application settings for future use.

This Update Note provides you with an overview of the most significant product modifications and enhancements in m+p Analyzer Revision 5.0. These together with many other smaller improvements make the m+p Analyzer even more powerful and user-friendly.

This new software revision has resulted primarily from the close and valuable cooperation with you, our customers. We optimize the m+p Analyzer continuously.

Therefore, if you have any suggestions that could further improve our product offering for your application, please let us know.

**m+p Analyzer 5.0** is available now providing you with even greater efficiency and ease of use.

Please do not hesitate to contact us for further information.

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