Raman Autosampler Release Notes

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About This Document

This document contains a revision history of Raman Autosampler, including new features that may not be included in the User's Guide, resolved issues, and known issues.

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Raman Autosampler 6.0

Release Date: Nov-2023

Significant Changes

This version of the Raman Autosampler application is a complete rewrite of the previous version. As such, some of the legacy functionality has been removed as listed below:

- Support for OMNIC Macros/Basic Has Been Removed

- OMNIC Menu Items Removed

- Custom Column Labels Are No Longer Supported

- Support for .ras files has been removed

New Features
None

Resolved Issues

Unable to Specify Spectrum Title or File Name
All spectra were assigned a timestamp title and automatically generated file name.

Known Issues
None

Raman Autosampler 5.1

New Features

Added Silent Mode
Added `SilentOn` and `SilentOff` commands to the Raman Autosampler command line to suppress completion messages when using OMNIC Macros\Basic.

Removed Motor Hysteresis Compensation for Raman Spectrometers
The motor hysteresis compensation feature was removed for Raman spectrometers. It is automatically handled by OMNIC for Dispersive Raman.

Removed Automatic Reset Wheel on Startup
A command line option has been added for the Raman Autosampler application to automatically reset the wheel.

Resolved Issues

Out of Bounds Error When Spreadsheet is Empty
An out of bounds error could occur when the spreadsheet was empty.

Spin Function Could Fail on FT-Raman Systems
Firmware limitations for the motor control could cause the spin function to fail on FT-Raman systems. The spin

function now automatically reverses direction when it approaches the limit.

System Could Time Out Waiting for OMNIC Macros\Basic to Load
The timeouts for the Raman Autosampler application have been increased to allow OMNIC Macros\Basic to load.

The Adjust Wizard Did Not Work Correctly on Almega Spectrometers
Changes to OMNIC for Dispersive Raman resulted in the Adjust wizard not working correctly on Almega spectrometers. The Adjust wizard now works correctly on Almega spectrometers.

Known Issues
None

Raman Autosampler 5.0

New Features

Added Support for DXR
Added support for DXR Raman spectrometers.

Resolved Issues
None

Known Issues
None

Raman Autosampler 4.0

New Features

Added Support for MoveTo from Bench Tab in OMNIC for Dispersive Raman
Added support for the MoveTo button on the Bench tab in OMNIC for Dispersive Raman. This button is used to move the Raman motorized stage to the position specified in the text box. The Raman Autosampler application must be running for this feature to work.

Resolved Issues
None

Known Issues

None

Raman Autosampler 3.1

New Features

New OMNIC Macros\Basic tasks

Added tasks to OMNIC Macros\Basic which support the remote operation features of Raman Autosampler. These new tasks appear near the bottom of the Collect section in the OMNIC Macros\Basic tasks list.

The new tasks are:

Task	Description
RAS Display Spreadsheet	Shows the Raman autosampler spreadsheet
RAS Reset Wheel	Resets the Raman autosampler sample wheel and leaves it at position #1
RAS Move To Position	Moves the Raman autosampler wheel to the position you specify
RAS Exit	Closes the Raman autosampler application

These commands are described in the document *Raman Carousel Autosampler User's Guide - Appendix.pdf* located on the software CD.

Resolved Issues

None

Known Issues

None

Raman Autosampler 3.0

New Features

Remote Operation

Added support for remote operation with or without the spreadsheet graphical user interface. These commands are described in the document *Raman Carousel Autosampler User's Guide - Appendix.pdf* located on the software CD.

OMNIC Menu Commands

Added Raman Autosampler commands to the OMNIC Collect menu. These commands include:

- Display Spreadsheet

- Reset Wheel

- Move to Position

- Move to Next Allowed Position

- Spin Sample

- Exit

Auto start Raman Autosampler with OMNIC

Added capability to automatically start the Raman Autosampler application when OMNIC starts. This capability is described in the document *Raman Carousel Autosampler User's Guide - Appendix.pdf* located on the software CD.

Resolved Issues

A macro error message followed by application error

When you click **Start** to begin the analysis of samples entered in the spreadsheet, the analysis macro for the first sample begins to run. An error message occurs followed by an application error which closes the Nicolet Raman Autosampler application.

Known Issues

None

Raman Autosampler 2.5

New Features

None

Resolved Issues

Issue with N2 Bench

No other information is available.

Known Issues

None

Raman Autosampler 2.4

New Features

Added Support for up to 100 Different Sample Wheel Types
Updated INI file reader and UI code to support up to 100 differnt sample wheel types.

Resolved Issues
None

Known Issues
None

Raman Autosampler 2.3
There do not appear to be any official release notes for this version.

Raman Autosampler 2.2
There do not appear to be any official release notes for this version.

Raman Autosampler 2.1
There do not appear to be any official release notes for this version.

Raman Autosampler 2.0

New Features

Macro Shows Only File Name in Spreadsheet
The directory path for macro files is no longer displayed in the Macro column cells; only the file name. The directory path is saved, however, in a hidden cell associated with each macro. Each macro may have its own unique path.

⚠️ This change means that existing .RAS files from 1.0 cannot be opened in 2.0. You must recreate them in 2.0.

Macro File Selection Defaults to OMNIC Macro Directory

When you click the Browse button to select a macro, the File Open dialog is displayed pointing to the directory where the macro is located. If the macro cell is blank, the File Open dialog opens in the directory which was last used to select a macro. If the application has just been started and this is the first macro selection, the dialog opens pointing to the macro directory path specified in OMNIC.

Resolved Issues

Stopping a Macro Does Not Stop the Autosampler

The application has been changed so that stopping a macro before it is finished will also stop the autosampler.

Raman Autosampler Loses Track of Position When Experiment Setup Task is Run

OMNIC Macros\Basic has been changed so that the Experiment Setup task no longer repositions the Raman motorized stage. This was causing the Raman autosampler to lose track of its position.

Fill Series Fails for Single Digit Values

A bug in Fill Series has been fixed so that it now works correctly with single digits.

Adding Columns to the Spreadsheet Causes Fatal Error

A bug with adding columns to the spreadsheet then trying to resize the added column has been fixed. It no longer causes a fatal error.

Sample Wheel Position Could Become Inaccurate After Repeated Runs

The application has been changed so that the wheel is driven against the hard stop prior to beginning each run. This can be quite annoying but it is the only way to guarantee that the wheel is in known position during the run.

Known Issues

None

Raman Autosampler 1.0

There do not appear to be any official release notes for this version.

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