

OMNIC for Dispersive Raman Release Notes

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About This Document

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

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OMNIC for Dispersive Raman 9.14

Release Date: Jan-2024

Supported Operating Systems

- Windows 10 64-bit
- Windows 11 64-bit

New Features

None

Resolved Issues

None

Known Issues

Spectral Interpretation Does Not Display Expected Information Page

Spectral Interpretation requires Internet Explorer to work properly. Pressing the spy glass icon in the info column results in the user's default browser being opened, but no informational page being displayed on systems that do not have Internet Explorer.

OMNIC for Dispersive Raman 9.13 Hotfix 6

Release Date: Nov-2023

Supported Operating Systems

- Windows 10 64-bit
- Windows 11 64-bit

New Features

None

Resolved Issues

OFDR Does Not Allow Selection of Experiment for an Accessory

If you have multiple experiment files that are tagged with the ID for a given smart accessory, it pops up a dialog stating you must choose which experiment file to load with the inserted accessory. This dialog pops up, but before you can select it goes away.

Reprocess Command Produces Wrong Resolution

When an *.SPA file with saved interferograms is re-processed to a different resolution, OMNIC generates a new spectrum with the wrong resolution. For example, if the original is 0.5 cm^{-1} and the user selects "Reprocess to 1 cm^{-1} ", the resulting spectrum instead has a resolution of 2 cm^{-1} .



See **OMNIC Atlus Release Notes** for additional resolved issues.

Known Issues

Spectral Interpretation Does Not Display Expected Information Page

Spectral Interpretation requires Internet Explorer to work properly. Pressing the spy glass icon in the info column results in the user's default browser being opened, but no informational page being displayed on systems that do not have Internet Explorer.

OMNIC for Dispersive Raman 9.13 Hotfix 5

Release Date: Jun-2023

Supported Operating Systems

- Windows 10 64-bit
- Windows 11 64-bit

New Features

None

Resolved Issues

See **OMNIC Atlus Release Notes** for resolved issues.

Known Issues

Spectral Interpretation Does Not Display Expected Information Page

Spectral Interpretation requires Internet Explorer to work properly. Pressing the spy glass icon in the info column results in the user's default browser being opened, but no informational page being displayed on systems that do not have Internet Explorer.

OMNIC for Dispersive Raman 9.13 Hotfix 3

Release Date: Jan-2023

Supported Operating Systems

- Windows 10 64-bit
- Windows 11 64-bit

New Features

None

Resolved Issues

SNV calculations are incorrect at the endpoints when spectrum is smoothed first

If you smooth or take the derivative before applying SNV, then if you choose the entire spectrum, the SNV correction will be incorrect.

Raman... library limits don't match expected value (from spectrum registration)

When saving the spectra in csv format, the x-axis is not the same when saving from an OMNIC window where all SPA files are opened or when saving it individually from a separate window. The difference of min-max observed does not correspond to the range the in TQ method.

DXR3 Flex does not properly support the fiber probe

Revised support for the DXR3 Flex fiber probe.

Known Issues

Spectral Interpretation Does Not Display Expected Information Page

Spectral Interpretation requires Internet Explorer to work properly. Pressing the spy glass icon in the info column results in the user's default browser being opened, but no informational page being displayed on systems that do not have Internet Explorer.

OMNIC for Dispersive Raman 9.13 Hotfix 2

Release Date: Apr-2022

Supported Operating Systems

- Windows 10 64-bit

New Features

Added support for DXR3 Flex

Support for the DXR3 Flex instrument. Additionally, the iXR now supports automatic calibration of the x axis.

Resolved Issues

None

Known Issues

Spectral Interpretation Does Not Display Expected Information Page

Spectral Interpretation requires Internet Explorer to work properly. Pressing the spy glass icon in the info column results in the user's default browser being opened, but no informational page being displayed on systems that do not have Internet Explorer.

OMNIC for Dispersive Raman 9.13

Release Date: Apr-2022

Supported Operating Systems

- Windows 10 64-bit

Other Features

Check the OMNIC 9.13 and TQ Analyst 9.13 release notes

New Features

None

Resolved Issues

None

Known Issues

Spectral Interpretation Does Not Display Expected Information Page

Spectral Interpretation requires Internet Explorer to work properly. Pressing the spy glass icon in the info column results in the user's default browser being opened, but no informational page being displayed on systems that do not have Internet Explorer.

OMNIC for Dispersive Raman 9.12 Hotfix 5

Release Date: Jul-2021

Supported Operating Systems

- Windows 10 64-bit

New Features

Command to copy a file from the OMNIC temp folder to a specified folder

Implement a DDE command called "RequestSecureCopy" that will copy a file from the OMNIC temp folder to a specified folder. The command is only available when Security is in use and can be controlled in TSA using an access control item called "Remote Secure Copy Request". The command syntax is:

```
RequestSecureCopy <SourceFileName> <DestinationFolder> <OptionalAuditEntryComment>
```

Resolved Issues

None

Known Issues

None

OMNIC for Dispersive Raman 9.12 Hotfix 4

Release Date: Jun-2021

Supported Operating Systems

- Windows 10 64-bit

New Features

None

Resolved Issues

Fix use auto save using title when greater than 99 characters

When using the feature save file using the title has more than 99 characters, it will crash OMNIC.

Known Issues

None

OMNIC for Dispersive Raman 9.12 Hotfix 2

Release Date: Mar-2021

Supported Operating Systems

- Windows 10 64-bit

New Features

Add laser on / off to menu

In order to allow control of the laser when using data security, a menu item has been added to allow control of the laser without entering the Experiment Setup dialog. An accessibility control has been added to the data security setup.

Preset the Z axis in Smart Raman UPS accessory

The Z axis position can be preset and will be set for the Smart Raman UPS accessory.

Resolved Issues

None

Known Issues

None

OMNIC for Dispersive Raman 9.12 Hotfix 1

Release Date: Feb-2021

Supported Operating Systems

- Windows 10 64-bit

New Features

None

Resolved Issues

Crash during laser warmup

There is an occasional crash when a laser is warming up after turning it on. This is seen primarily with the 785 laser.

Changes for this release

The OMNIC and other release notes cover the changes made for this release.

Known Issues

None

OMNIC for Dispersive Raman 9.12

Release Date: Oct-2020

Supported Operating Systems

- Windows 7 32-bit
- Windows 7 64-bit
- Windows 10 64-bit

New Features

None

Resolved Issues

None

Known Issues

None

OMNIC for Dispersive Raman 9.11 Hotfix 1

Release Date: Sep-2019

Supported Operating Systems

- Windows 7 32-bit
- Windows 7 64-bit
- Windows 10 64-bit

New Features

None

Resolved Issues

Prompt for auto calibration may appear on some instruments

The prompt for auto calibration may appear on some instruments that do not have the hardware to support this feature.

Known Issues

None

OMNIC for Dispersive Raman 9.11

Release Date: Aug-2019

Supported Operating Systems

- Windows 7 32-bit
- Windows 7 64-bit
- Windows 8.1 64-bit
- Windows 10 64-bit

New Features

Add support for 532 and 633 high power lasers

The 532 and 633 high power laser support has been added to allow use of the normal and high-power lasers for new systems.

Add "Prevent user from signing data multiple time" policy

This policy has been added to the XML for OMNIC for Dispersive Raman.

Resolved Issues

Beam block moves during map collect

When collecting a map using the auto calibration, the beam blocker moved when it did not need to.

Known Issues

None

OMNIC for Dispersive Raman 9.9 Hotfix 2

Release Date: Feb-2019

Supported Operating Systems

- Windows 7 32-bit
- Windows 7 64-bit
- Windows 8.1 64-bit
- Windows 10 64-bit

New Features

None

Resolved Issues

Save map files in secure location

Collecting maps in a secure environment was failing.

Known Issues

None

OMNIC for Dispersive Raman 9.9

Release Date: Sep-2018

Supported Operating Systems

- Windows 7 32-bit
- Windows 7 64-bit
- Windows 8.1 64-bit
- Windows 10 64-bit

New Features

Series files can use TGA type files for profiles

Added ability to read in more data fields from TGA type files as a series profile.

Resolved Issues

Time stamp on split map files incorrect when photo-bleaching used

Time stamp on split map files is now correct when using photo-bleaching.

Estimated map collection time is significantly shorter than actual time if photo-bleaching

Estimated map collection time now includes photo-bleaching time

Auto save fails when large number of spectra

Now handles auto-save sequence number larger than 9999

Known Issues

None

OMNIC for Dispersive Raman 9.8 Hotfix 2

Release Date: Apr-2018**Supported Operating Systems**

- Windows 7 32-bit
- Windows 7 64-bit
- Windows 8.1 64-bit
- Windows 10 64-bit

New Features

None

Resolved Issues**Requested changes for a specific customer**

Changes to the software that only affect that customer have been added to the software.

Known Issues

None

OMNIC for Dispersive Raman 9.8 Hotfix 1

Release Date: Oct-2017

Supported Operating Systems

- Windows 7 32-bit
- Windows 7 64-bit
- Windows 8.1 64-bit
- Windows 10 64-bit

New Features

Enhance laser calibration for 532 laser

Laser calibration has been enhanced to allow a larger range of peak variations due to the laser frequency having a wider variation.

Resolved Issues

Automatic save not available with Data Security installed

The automatic save is greyed out when using data security and the policy allows it. This has been changed to be enabled when the policy allows the automatic save.

Program failure sometimes occurs during instrument calibration

A program failure that randomly occurred during instrument calibration has been fixed.

Program failure when more than 9999 autosave spectra with same basename

When auto-saving more than 9999 spectra with the same basename, the program would often fail if an experiment file was loaded.

Instrument calibration starting during array automation run

A problem where the instrument calibration can be initiated in between the measurements of an Array Automation run has been fixed.

Known Issues

None

OMNIC for Dispersive Raman 9.8

Release Date: May-2017

Supported Operating Systems

- Windows 7 32-bit
- Windows 7 64-bit
- Windows 8.1 64-bit
- Windows 10 64-bit

New Features

Version Updated To 9.8

The product version has been updated to 9.8.

New policies added for OMNIC DS

1. Add policy to prevent cancel of data collection
2. Add policy to prevent cancel of signature dialogs
3. Add policy to prevent changing annotation
4. Add policy to set the filename of a collected spectrum being auto saved to use the spectrum title
5. Add audit event for start of a collection. This includes the main sample collect, series and mapping.
6. Add audit event when cancel login to application
7. The signature dialog will not close after three failed signatures
8. At start of the application, the status of the security suite will be checked and report any issues
9. File folders defined in the Security Administration program will be created if not already existing

Added Support for New iXR Dispersive Raman Systems

OMNIC for Dispersive Raman now fully supports the new iXR Dispersive Raman systems.

More information types available in Report

Software version can now be added to a report

Deleted libraries moved to Windows Recycle Bin

To help prevent accidental deletion of libraries by the user in OMNIC for Dispersive Raman, they are moved to the Windows Recycle Bin instead of permanently deleting them.

Resolved Issues

Issue when accessing secure folders

It was found that after data collection with auto save that opening a file from another folder would change the save folder for the next file save. This has been corrected to keep the proper save folder as defined in the Security Administration policy.

When auto save a spectrum after collection, the digital signature not shown

When auto saving a spectrum after collection, the digital signature was not shown on the display. This has been corrected to show the signature on the spectrum display.

Known Issues

None

OMNIC for Dispersive Raman 9.7 Hotfix 3

Release Date: Mar-2017

Supported Operating Systems

- Windows 7 32-bit
- Windows 7 64-bit
- Windows 8.1 64-bit
- Windows 10 64-bit

New Features

None

Resolved Issues

Provided Service Pack Updates for Clean Windows 8.1 or Windows 10 Computers

The Service Pack installation requires installation of an earlier OMNIC 9 version of software (OMNIC 9.0-OMNIC 9.6). When moving to a new Windows 8.1 (64-bit) or Windows 10 (64-bit) computer the older media may be unable to install on the new operating system resulting in the inability for the user to update their software easily to the latest OMNIC 9 version using the Service Pack.

Alignment of Security Administration Product across OMNIC and UV-Vis

Security Administration software is now consistent across both the OMNIC and UV-Vis product lines.

Updated installer for Raman Autosampler Carousel to Work with OMNIC 9.7

OMNIC 9.7 updated Macros/Basic to be compatible with Windows 10, this new version of Macros/Basic was incompatible with the Raman Autosampler carousel. The autosampler installer was updated in this release to be compatible.

Known Issues

None

OMNIC for Dispersive Raman 9.7 Hotfix 2

Release Date: Dec-2016

Supported Operating Systems

- Windows 7 32-bit
- Windows 7 64-bit
- Windows 8.1 64-bit
- Windows 10 64-bit

New Features

None

Resolved Issues

OMNIC Locks Up at the Splash Screen on Windows 10 Pro

OMNIC 9.7 was installed on a Windows 10 Pro Computer. When OMNIC starts, the splash screen appears, but it never progresses past that point. After a while the splash screen goes away, but OMNIC32.exe is still listed in task manager.

Known Issues

None

OMNIC for Dispersive Raman 9.7 Hotfix 1

Release Date: Oct-2016

Supported Operating Systems

- Windows 7 32-bit
- Windows 7 64-bit
- Windows 8.1 64-bit
- Windows 10 64-bit

New Features

None

No changes other than those described in the **OMNIC Release Notes** for 9.7 Hotfix 1.

Resolved Issues

None

Known Issues

None

OMNIC for Dispersive Raman 9.7

Release Date: Sep-2016

Supported Operating Systems

- Windows 7 32-bit
- Windows 7 64-bit
- Windows 8.1
- Windows 10

New Features

Added support for Windows 10

OMNIC for Dispersive Raman is now supported running under Windows 10.

Resolved Issues

None

Known Issues

None

OMNIC for Dispersive Raman 9.6 Hotfix 1

Release Date: Jun-2016

Supported Operating Systems

- Windows 7 32-bit
- Windows 7 64-bit
- Windows 8.1 64-bit

New Features

None

No changes other than those described in the **OMNIC Release Notes** for 9.6 Hotfix 1.

Resolved Issues

None

Known Issues

None

OMNIC for Dispersive Raman 9.6

Release Date: May-2016

Supported Operating Systems

- Windows 7 32-bit
- Windows 7 64-bit
- Windows 8.1 64-bit

New Features

None

Resolved Issues

Improved Estimated Collect Times Calculations in Series

When Series software was used in conjunction with OMNIC for Dispersive Raman and short exposure times were selected, the estimated time for the Series collect did not accurately reflect how long the collect would take.

Smart Background Collection Not Starting Correctly in Non-English Windows

When running OMNIC for Dispersive Raman on non-English Windows, it was possible that Smart Backgrounds would not be properly collected.



There may be other similar issues when running OMNIC for Dispersive Raman on non-English versions of Windows that previously required the use of a period as decimal point separator have also been resolved.

Service Pack Lacked Microsoft C++ Runtime Support Module

The previous version of the OMNIC for Dispersive Raman Service Pack lacked the necessary Microsoft C++ runtime support module.

Wave Plate Motor May Not Move Completely Out of Optical Beam

On some DXR systems, the optional polarizer wave plate motor mechanism may not have moved completely out of the optical beam.

Known Issues

None

OMNIC for Dispersive Raman 9.5

Release Date: Nov-2015

Supported Operating Systems

- Windows XP SP3
- Windows 7 32-bit
- Windows 7 64-bit
- Windows 8.1 64-bit

New Features

Added Support for New Optional Polarization Module

Support has been added to allow control of the new optional polarization module hardware that may be installed into DXR or DXR2 Dispersive Raman spectrometers.

Resolved Issues

None

Known Issues

None

OMNIC for Dispersive Raman 9.4

Release Date: Oct-2015

Supported Operating Systems

- Windows XP SP3
- Windows 7 32-bit
- Windows 7 64-bit
- Windows 8.1

New Features

Added support for Windows 8.1

OMNIC for Dispersive Raman is now supported running under Windows 8.1.

Added New Drivers Installer to Installation Media

Drivers for communicating with DXR dispersive Raman spectrometers are now automatically installed from the distribution media.



Due to Microsoft's changes in how hardware drivers are digitally signed, if the target installation computer is Windows 7, it is **required** to use Windows Update to fully update the computer prior to installing the DXR drivers. If this is not performed, then the drivers may fail to load into memory correctly and instrument communication will not occur. This is not an issue when installing onto Windows 8.1.

Added Support for the New Motor Control Board ("MCB")

A new MCB has been released as a replacement for the previous version. Support for this new MCB provides capabilities that allow supporting the new 785 nm lasers.

Added Support for New 785 nm Laser, Gratings and Filter

Support has been added to use the new 785 nm lasers (including high power version) along with the associated filter and both low- and high-resolution gratings.

Added Support for Integration with AFM ("Atomic Force Microscopy") Systems

Support has been added to facilitate integration with AFM systems. This includes providing a dual video camera driver that may be optionally installed when AFM systems have multiple Sentech video cameras.

Resolved Issues

DXRPerfTest Utility Program is No Longer Included with OMNIC for Dispersive Raman

The DXRPerfTest utility program is no longer included in the standard software distribution. It is available for and is intended to be used only by service personnel.

Calibration/Alignment Tool is Now Protected from Laser Damage

When either a system alignment or calibration is completed, the calibration/alignment tool is moved away from the polystyrene sample position and the laser power is lowered in order to protect the polystyrene sample from potential damage.

Installation Instructions for the 633 nm Laser has been Removed from the DXR Documentation

Installation of the 633 nm laser option is no longer included in the DXR documentation. This requires trained service personnel to be installed.

Inverted Spectra after System Calibration

In rare situations, it may have been possible for spectra to appear to be inverted after a system calibration, necessitating calibrating a second time to correct it.

Collecting More Exposures after Initial Spectral Collection Now Operates Correctly

When collecting spectral data, it was possible that when a data collection completed and the user chose the "More" button to collect additional exposures, the additional new spectra were not collected properly.

Almega References have been removed from the Software

Since Almega systems are no longer supported in the software, references to Almega systems have been removed. This includes removal of Almega specific configuration (.con) and experiment (.exp) files from the installation.

Known Issues

None

OMNIC for Dispersive Raman 9.3 Hotfix 1

Release Date: Jan-2015

Supported Operating Systems

- Windows XP SP3
- Windows 7 32-bit
- Windows 7 64-bit

New Features

None

No changes other than those described in the **OMNIC Release Notes** for 9.6 Hotfix 1.

Resolved Issues

None

Known Issues

None

OMNIC for Dispersive Raman 9.3

Release Date: Oct-2014

Supported Operating Systems

- Windows XP SP3
- Windows 7 32-bit
- Windows 7 64-bit

New Features

None

Resolved Issues

OMNIC Atlys 9.3

Changes for OMNIC Atlys are in the **OMNIC Atlys Release Notes**.

Calibration/Alignment Tool Position is set to Pinhole after an Alignment or Calibration

In order to prevent the laser from impinging on the polystyrene sample position of the calibration/alignment tool for a long time, the position is now set to the pinhole after a calibration or alignment.

Software No Longer Queries for Instrument Type

The first-time user is no longer queried for which instrument type they wish to communicate with during first time startup of the software. Previous versions of the software supported Almega systems. This has been changed to only DXR type systems, as Almega systems are no longer supported by the software as of version 9.1 and newer. Furthermore, previous versions used Almega systems as the default instrument type. This has also been changed to DXR type systems.

Known Issues

None

OMNIC for Dispersive Raman 9.2 Hotfix 2

Release Date: May-2013

Supported Operating Systems

- Windows XP SP3
- Windows 7 32-bit
- Windows 7 64-bit

New Features

None

Resolved Issues

Laser on LED on Front of DXR Instrument may not stay on After Turning on The Laser

On certain DXR systems using either the 780 or 455 nm lasers, it may have been possible that the laser on LED on the front of the instrument may not have stayed on after turning on the laser.

Known Issues

None

OMNIC for Dispersive Raman 9.2 Hotfix 1

Release Date: Feb-2013

Supported Operating Systems

- Windows XP SP3
- Windows 7 32-bit
- Windows 7 64-bit

New Features

Additional Support for the New Blue 455 nm Laser has been added to DXR Raman Microscope and DXR Smart Raman Systems

A change has been implemented that precludes the use of an older model calibration/alignment tool when a 455 nm laser is installed into the system.



Using the 455 nm laser now requires use of a new model calibration/alignment tool that has a serial number of AJP1302000 or newer.

Resolved Issues

455 nm Laser Power up Sequence Changed

The laser power up sequence for the new 455 nm laser has been improved for greater laser reliability.

Fixed Issue Where DXR White Light Calibration May Fail Using Certain Gratings Due to Spectral Saturation

On certain DXR systems using an extended range grating, it was possible for the system calibration to fail the white light calibration due to detector saturation. This has been resolved.

Known Issues

None

OMNIC for Dispersive Raman 9.2

Release Date: Nov-2012

Supported Operating Systems

- Windows XP SP3
- Windows 7 32-bit
- Windows 7 64-bit

New Features

Added Support for the New Blue 455 nm Laser

Support for the new blue 455 nm laser has been added to DXR Raman Microscope and DXR Smart Raman systems.

Resolved Issues

Fixed issue Where ValPro Qualification Software Would Refuse to Run DXR Smart Raman Methods in Certain Foreign Languages

When running ValPro Qualification software with OMNIC for Dispersive Raman software in some foreign languages (particularly Chinese), qualification methods for DXR Smart Raman with UPS + Blank insert accessory would refuse to run due to problems reading the serial number of the accessory and tool head.

Known Issues

None

OMNIC for Dispersive Raman 9.1 Hotfix 1

Release Date: Sep-2012

Supported Operating Systems

- Windows XP SP3
- Windows 7 32-bit
- Windows 7 64-bit

New Features

None

Resolved Issues

Qualification Software Could Not Properly Digitally Sign Results

When running ValPro Qualification software with OMNIC for Dispersive Raman using the optional OMNIC DS Data Security software, ValPro Qualification could not properly sign or verify results files. Furthermore, the time and date of the digital signature may have been wrong. This issue only affects systems using the 9.1 OMNIC for Dispersive Raman software.

Known Issues

None

OMNIC for Dispersive Raman 9.1

Release Date: Jul-2012

Supported Operating Systems

- Windows XP SP3

- Windows 7 32-bit
- Windows 7 64-bit

New Features

Added 455 nm Laser Support

Software has been updated to support the new 455 nm laser for DXR Raman Microscopes & DXR Smart Raman systems.



Using this new laser requires use of a new model calibration/alignment tool.

Resolved Issues

Fixed "Save Range Invalid" error

In certain international situations, it was possible to receive an error message regarding the save range being invalid while in Experiment Setup's bench tab.

Improved Autofocus Algorithm

The algorithm used for spectral autofocus has been improved and now provides significantly improved results across a broader range of samples.

More Reliable Laser Fine Adjustment

Resetting of laser X & Y fine adjustments motors is now more reliable when system alignment is initiated.

Known Issues

None

OMNIC for Dispersive Raman 9.0



This version was never generally released. However, it was available as an engineering special order.

Release Date: Jun-2012

Supported Operating Systems

- Windows XP SP3
- Windows 7 32-bit
- Windows 7 64-bit

New Features

None

Resolved Issues

None

Known Issues

None

OMNIC for Dispersive Raman 8.3

Release Date: Sep-2011

Supported Operating Systems

- Windows 2000 SP4
- Windows XP SP3
- Windows 7 32-bit
- Windows 7 64-bit

New Features

OMNIC for Dispersive Raman Supported under Both Windows 7 32-bit & 64-bit Operating Systems

OMNIC for Dispersive Raman is now available for 32-bit and 64-bit versions of Windows 7. It runs as a 32-bit application on both operating systems.

Resolved Issues

None

Known Issues

None

OMNIC for Dispersive Raman 8.2 Hotfix 1

Release Date: Feb-2011

Supported Operating Systems

- Windows 2000 SP4
- Windows XP SP3
- Windows 7 32-bit
- Windows Vista

New Features

OMNIC for Dispersive Raman is Compatible with Windows 7 (32-bit only)

OMNIC for Dispersive Raman is now compatible with 32-bit windows 7. However, it is not yet compatible with 64-bit Windows 7.

Resolved Issues

Improved DXR Smart Raman UPS Focus Motor Positioning

On DXR Smart Raman systems using the UPS accessory, the focus motor positioning has been improved.

New Prompt for Laser Warm-Up

When attempting to collect sample data and the laser has not yet completed its warm up, a prompt now appears informing the user. It now allows the user to proceed to collect the data anyway.

Improved Warning When Maximum Laser Power Cannot be achieved

On some DXR systems it is possible to receive an erroneous error when the maximum laser power may not be able to be achieved.

Known Issues

None

OMNIC for Dispersive Raman 8.2

Release Date: Aug-2010

Supported Operating Systems

- Windows 2000 SP4
- Windows XP SP3
- Windows Vista

New Features

Improved Auto Alignment Initiation

When the second radio button is selected in the Alignment tab of Experiment Setup, the Auto Align operation is started. Some users were assuming that this would happen, so now it does. To use the manual alignment controls, the Cancel button can be selected to stop the auto alignment operation. The grating serial number has been added to the output in the dxralign.log file.

Photobleaching May be Cancelled

A Cancel button has been added to the Photobleaching dialog allowing the waiting time to be aborted.

New X-Axis Units

A new option has been added in the Other Conversions dialog allowing the X-axis units of the selected spectra to be changed to millielectron volts. The conversion is reversible using other commands. (Raman Shift, Nanometers, Other Conversions: Wavenumbers).

Simulator Mode

An Exit Simulator Mode button has been added to the Simulator Setup dialog allowing simulator mode to be turned off.

Laser Warm Up

The Cancel button in the "Waiting for laser to warm up" message box has been changed to read Cancel Collect if it is displayed when Collect Sample is selected to indicate that this is what will happen if it is selected. After the laser is turned on in the Bench tab of Experiment Setup, if the Cancel button is selected in the "Waiting for laser to warm up" message box, the warmup time remaining is displayed in the Bench tab.

Autofocus

If photoluminescence is the selected final format when autofocus is performed, the amplitude of the spectrum is maximized rather than the amplitude of the second derivative of the spectrum.

Redesigned Spectrograph on DXR

OMNIC for Dispersive Raman has been modified to support a redesigned spectrograph that requires different communications with the spectrographic camera.

New Grating Options

OMNIC for Dispersive Raman has been modified to support new grating options being offered.

New Laser Power

OMNIC for Dispersive Raman has been modified to read the maximum allowable laser power from each laser when it is installed.

Well Plate Holder with DXR UPS Accessory

When the well plate holder is installed in the DXR UPS accessory and Array Automation is installed, the Bench tab has additional controls for moving the holder in the X and Y directions. The units are mm from the accessory's reset position as in Array Automation. There is also a Move to A1 button which will move the holder to the position of well A1. If the X and Y controls are changed after this button is selected and the Bench tab is exited, the position of well A1 will be modified for Array Automation to the selected position.

Resolved Issues

Spectra in unshifted frequency units

When (unshifted) Raman frequency (cm^{-1}) is selected as the final format, the spectrum display and save range in the Bench tab of Experiment Setup could get reversed.

OMNIC Atlas, Series and Array Automation Collects

If the maximum age for a calibration or alignment was reached during an OMNIC Atlas, Series or Array Automation collect on a DXR bench, the collection was aborted.

Estimated Resolution Readout in Experiment Setup's Bench Tab

Previously, the estimated resolution displayed in the Bench tab was calculated incorrectly.

Spectrum Amplitude Readout in Bench Tab

When the amplitude of the spectrum displayed in the Bench tab of Experiment Setup was very large, the Max-Min readout could get truncated.

Known Issues

None

OMNIC for Dispersive Raman 8.1 Hotfix 2

Release Date: Feb-2010

Supported Operating Systems

- Windows 2000 SP4
- Windows XP SP3
- Windows Vista

New Features

None

Resolved Issues

Laser Shutoff When Program Started

On DXR benches, when OMNIC for Dispersive Raman is started with the laser on, the laser was briefly turned off and then back on.

Laser On/Off Control with Almega Benches

In the 8.1 release of OMNIC for Dispersive Raman, the lasers on Almega benches could not be turned on in the Bench tab unless the Turn both lasers on/off box was unchecked in the "Advanced" tab. Also, when starting an alignment, the laser warming up message would be displayed even when the laser had been on for more than the warm-up time.

Camera Saturation during Auto Alignment and Calibration

Because of a change to more efficient objectives used on DXR Raman Microscope systems, the amplitude of the white light spectrum collected during spectrograph alignment and white light calibration could saturate the camera. Since the fix for this makes previously collected backgrounds and white light calibrations invalid, when this version of OMNIC for Dispersive Raman is installed, all old backgrounds and calibrations of DXR systems are deleted.

Control of DXR Aperture

The stepper motor that selects the aperture on DXR benches could occasionally lose a step resulting in the pinhole apertures being incorrectly positioned.

Known Issues

None

OMNIC for Dispersive Raman 8.1 Hotfix 1

Release Date: Sep-2009

Supported Operating Systems

- Windows 2000 SP4
- Windows XP SP3
- Windows Vista

New Features

None

Resolved Issues

Run Only OMNIC Policy with OMNIC DS

If the Run Only OMNIC policy is selected it will now work correctly.

Known Issues

None

OMNIC for Dispersive Raman 8.1

Release Date: Jun-2009

Supported Operating Systems

- Windows 2000 SP4
- Windows XP SP3
- Windows Vista

New Features

Saving Dispersive Raman Spectra in .SPG Files

When dispersive Raman spectra are saved in .SPG files, the raw data associated with them are also saved, just as they have been in .SPA files. This allows such spectra to be reprocessed.

Selecting the Microscope Objective

In previous versions of the software the microscope objective selected in the Experiment Setup dialog's Bench tab was not reflected in the Select Calibration dialog accessible from the System Configuration dialog in μ View or OMNIC Atlas. This has been changed so that specifying a microscope objective in the Bench tab is equivalent to selecting a different calibration.

DXR Microscope Alignment Process

When a DXR Raman Microscope is being aligned in the Experiment Setup Alignment tab, the order of the alignment steps as now been changed to perform the spectrograph fine adjust alignment first, followed by the laser fine adjustment. The laser alignment now uses a polystyrene spectrum since this has been found to provide better alignment when Autoalign is selected.

Nicolet Almega is Now Supported with USB

USB Almega systems are now available with this version of the software.

Resolved Issues

Estimated Collect Times

If the "Autoexposure" option is turned on, the estimated collection times displayed for Series and OMNIC At μ s data collections assume that the Maximum collect time specified in the Collect tab of Experiment Setup will be used for each spectrum and are thus upper limits on the collection time. (Autoexposure should probably not be used for Series collects.) The same assumption is made for the "Estimated time for this collection" readout in the Collect tab of Experiment Setup.

OMNIC At μ s Window Images

Occasionally on some systems, the sample image in the OMNIC At μ s window would not be displayed. This has been corrected using the new instrument drivers included with this release and proper cabling configuration (contact Technical Support for additional installation details).

Internationalization

In some internationalized versions of the software several text items were not translated or did not display correctly.

Laser Power Recorded in Spectral Header

Occasionally, the Laser Power recorded into the Collection and Processing Information of spectra collected on DXR benches would record a value of 0.0 mW. The software now records the proper laser power that was set in the Experiment Setup dialog box's Bench tab. See the Help file topic: "Setting the laser power" for additional details about setting the laser power.

Photobleaching Time

If the Photobleaching option is turned on, the upper limit on the time allowed has been increased from 10 minutes to 60 minutes. The 10 minute limit was added in the 8.0 release.

Known Issues

Estimated Collect Times

If the Autofocus before collect option is turned on in Experiment Setup, the estimated collect times displayed for Series and OMNIC At μ s data collections will underestimate the total time required.

OMNIC for Dispersive Raman 8.0 Hotfix 3

Release Date: Mar-2009

Supported Operating Systems

- Windows 2000 SP4
- Windows XP SP3

- Windows Vista

New Features

None

Resolved Issues

Dispersive Raman Instruments Running ValPro with OMNIC DS Will Now Work Correctly

Using the ValPro 2.4 methods for OMNIC for Dispersive Raman they will now correctly execute while using full OMNIC DS support.

Quantification Now Works Correctly Following a Recalibration of the DXR Smart Raman

When using the Quantify command from OMNIC for Dispersive Raman following a DXR Smart Raman calibration, the quantify command will work as expected.

Known Issues

None

OMNIC for Dispersive Raman 8.0 Hotfix 2

Release Date: Oct-2008

Supported Operating Systems

- Windows 2000 SP4
- Windows XP SP3
- Windows Vista

New Features

None

Resolved Issues

Allowed Range Display

The Allowed range displayed in the Bench tab of Experiment Setup was calculated incorrectly for DXR benches. This error was introduced in the Aug-Hotfix release.

Laser Calibration with Fiber Probe

The laser calibration of high power 780 nm lasers on DXR benches was modified to use a higher power setting to obtain better signal to noise in the polystyrene spectrum.

Improper Text in Alignment Tab

When alignment of a DXR bench was being performed with a fiber probe attached, improper text was displayed in the Alignment tab of Experiment Setup.

Known Issues

None

OMNIC for Dispersive Raman 8.0 Hotfix 1

Release Date: Aug-2008

Supported Operating Systems

- Windows 2000 SP4
- Windows XP SP3
- Windows Vista

New Features

None

Resolved Issues

DXR Calibration with Fiber Probe

In version 8.0 the white light instrument correction function was calculated incorrectly when a DXR bench was calibrated with a fiber probe installed.

Known Issues

None

OMNIC for Dispersive Raman 8.0



The name of the software has been changed to OMNIC for Dispersive Raman.

Release Date: Jun-2008

Supported Operating Systems

- Windows 2000 SP4
- Windows XP SP2

New Features

Support for DXR Spectrometers

OMNIC for Dispersive Raman now supports both Nicolet Almega and DXR spectrometers. When the program is run, it configures itself to work with the type of spectrometer that is connected. The operation of the Experiment Setup and Calibrate Instrument commands differs between the two types. Consult the on-line Help (OMNIC Help Topics) for details.

Autofocus before Collect

There are new controls on the "Advanced" tab of Experiment Setup that allow a spectral autofocus to be done before each Collect Sample operation. Consult the on-line Help for details. The Sample Position dialog box displayed during preview collections when the 180-degree or DXR Smart Raman UPS accessory is being used now has an Autofocus button allowing a spectral autofocus to be done at that time.

Resolved Issues

Y-Axis Scaling

In version 7.4 the Y-axis scaling of collected spectra was changed to be in units of counts per second. The Reprocess function has been modified to scale spectra to these units.

Known Issues

Windows Vista

OMNIC for Dispersive Raman is not yet compatible with Windows Vista.

Estimated Collect Times

If the Autoexposure or Autofocus before collect options are turned on in Experiment Setup, the estimated collect times displayed for Series and OMNIC Atlas data collections will not be correct.

OMNIC for Almega 7.4

Release Date: Sep-2007

Supported Operating Systems

- Windows 2000 SP4
- Windows XP SP2

New Features

Y-Axis Scaling of Dispersive Raman Spectra

When Display Setup was used to specify that the data collection parameters are to be displayed with spectra, the number of background exposures shown was incorrect.

Resolved Issues

OMNIC DS Data Security

In previous versions, if OMNIC DS Data Security was installed on your system, the "Require Signature When Saving Spectrum" policy had to be disabled during instrument calibration and when smart background data are due to be collected so that the collections would not be interrupted by requests for digital signatures. This is no longer necessary.

Data Collection Parameters

When Display Setup was used to specify that the data collection parameters are to be displayed with spectra, the number of background exposures shown was incorrect.

Known Issues

None

OMNIC for Almega 7.3 Service Pack 1

Release Date: Oct-2006

Supported Operating Systems

- Windows 2000 SP4

- Windows XP SP2

New Features

OMNIC DS Data Security

If OMNIC DS Data Security is installed on your system, the "Require Signature When Saving Spectrum" policy should be disabled during instrument calibration and when smart background data are due to be collected so that the collections will not be interrupted by requests for digital signatures. Smart background data are collected during the first approximately 40 hours of instrument inactivity after OMNIC for Almega 7.3 is installed and periodically after that based on the setting of Maximum Smart Background Age in the Calibrate Instrument dialog box.

Resolved Issues

Preview Data Collection

The format (X-axis units) of the spectrum displayed during preview mode in the Collect Sample window matches the Final Format selection in the Experiment Setup dialog box.

Conflicts with Smart Background Collection

If data for smart backgrounds were being collected when Calibrate Instrument was selected or when a macro was run, the program could hang up. Smart background collection will now be stopped temporarily to allow these operations to work.

Spectrum Annotation

If the format (X-axis units) of a spectrum was changed using the Raman Shift, Nanometers or Other Conversions operations, any previous annotation of the spectrum (e.g., peak positions) would be incorrectly displayed. Spectrum annotation is now cleared when these operations are done.

Selection of Bin Range

The Select Range button on the CCD Array tab of the Experiment Setup dialog box could fail to determine the correct bin range based on the camera image displayed. This has been corrected by lowering the peak detection threshold so that images of weaker spectra can be used.

Warning Message When μ View is Run If OMNIC At μ s is installed

If OMNIC At μ s is installed on your system, when μ View is run, a message is shown saying that "OMNIC At μ s is currently running. This may cause conflicts with video displays." This is to warn you that you cannot use μ View and OMNIC At μ s simultaneously to display the video camera image. There is now a check box in this box labeled "Do not display this warning again" to avoid repeated displays of the dialog box.

Known Issues

None

OMNIC for Almega 7.3

Release Date: Apr-2006

Supported Operating Systems

- Windows 2000 SP4
- Windows XP SP2

New Features

Bench Serial Number

The bench serial number has been added to the Collect Sample section of the DATA PROCESSING HISTORY in the Collection and Processing Information window.

Smart Background

An option has been added to the Background Handling section of the Collect tab of the Experiment Setup dialog box to use a "smart" background. As described in the on-line help, this is a background derived from a set of backgrounds collected with varying exposure times that can be used for any exposure time. A new parameter has been added to the Calibrate Instrument dialog box to specify how frequently data for a new smart background are collected.

If OMNIC DS Data Security is installed on your system, the "Require Signature When Saving Spectrum" policy should be disabled when smart background data are due to be collected so that the unattended data collections will not be interrupted by requests for digital signatures. Smart background data are collected during the first approximately 40 hours of instrument inactivity after OMNIC for Almega 7.3 is installed and periodically after that based on the setting of Maximum Smart Background Age in the Calibrate Instrument dialog box.

Auto Exposure

Controls have been added to the Collect tab of the Experiment Setup dialog box to specify that the exposure time and number of exposures be determined automatically to provide a spectrum with a specified signal-to-noise ratio or to stop after a specified time, whichever occurs first.

Fluorescence Correction

Fluorescence has been added as an option in the Correction control on the Collect tab of the Experiment Setup dialog box. If this option selected, you can specify that an automatic baseline correction be applied to collected spectra using a selected polynomial order or that a reference spectrum obtained of the fluorescent material be scaled and subtracted from collected spectra. Fluorescence has also been added as an option to the Other Corrections dialog box allowing the same operations to be done on a previously collected spectrum.

Photoluminescence Spectra

Photoluminescence has been added as an option in the Final Format control on the Collect tab of the Experiment Setup dialog box. If it is selected, the spectra collected will have an X-axis unit of Nanometers and a Y-axis unit of Emission. If two lasers are installed in the system, any of the gratings installed in the system can be used with either of the lasers. The selection is done using the Grating control on the Bench tab.

Other Changes on the Collect tab of Experiment Setup

The check box on the Collect tab of the Experiment Setup dialog box that determined whether raw data were saved with collected spectra has been removed. Raw data are now always saved with collected spectra. The Preview Exposure Time and Background Exposures parameters have been relocated. The option to use a specified file as the background has been removed.

Spectral Quality Checks

Additional controls have been added to the Quality tab of the Experiment Setup dialog box to enable more spectral quality checks. The selected tests are performed when spectra are collected using Collect Spectrum and on the Bench tab of the Experiment Setup dialog box.

Changes on the Bench tab of Experiment Setup

Most of the previously separate controls on the Bench tab of the Experiment Setup dialog box have been combined in a spreadsheet control. A new readout provides the approximate laser spot size, which is a function of the laser and objective being used. A set of icons has been added above the spreadsheet to indicate if any of the selected spectral quality tests are failing. If the Raman Autosampler software is installed, the Beam Path/Accessory row in the spreadsheet includes Carousel Sampler to allow specification of the wheel type installed and to change the position of the wheel. When Microscope is the selected beam path, the RIM is moved to the open position and data collection stops when the door is open so that the sample can be observed through the microscope eyepiece.

Other Changes on the Collect Tab of Experiment Setup

The check box on the Collect tab of the Experiment Setup dialog box that determined whether raw data were saved with collected spectra has been removed. Raw data are now always saved with collected spectra. The Preview Exposure Time and Background Exposures parameters have been relocated. The option to use a specified file as the background has been removed.

Scheduled Calibrations

The Calibrate Instrument dialog box has been modified to allow you to specify that a calibration is to be done when the previous calibration is a specified number of days old. It is also now possible to have different schedules for the different types of calibration (wavelength, white light and laser).

Automatic Baseline Correct

New controls have been added to the Process tab of Edit Options to allow specification of the polynomial order and number of iterations used by Automatic Baseline Correct. In previous versions, the values of these parameters were fixed at 2 and 20 respectively.

Clipboard Button Added to Search Results Window

A clipboard button was added to the Search Results window that copies the hit list as a text table as well as the graphical display of the search results. Users can use "Paste Special" in most programs, such as MS Word, to select the format of data they want to paste.

Tabular Data Written to Clipboard as RTF

Many places in OMNIC that write tabular data to the clipboard were changed to write the data as an RTF table as well as the previously supported unformatted text. Users can use "Paste Special" in most programs, such as MS Word, to select the format of data they want to paste. Pasting RTF tables can simplify formatting of the information in external documents. RTF tables are now produced for Find Peaks, Peak Resolve, Search Results, and Annotations.

Series Now Supports Almega Dispersive Raman Spectrometers

If Series is installed on your system, series data collection can now be used with Almega spectrometers. A new tab titled "Series" will appear in the Experiment Setup dialog. This can be used to set up a series data collection for kinetics measurements. For more information, select Series Help Topics in the Help menu.

Linkam Stage

If a Linkam stage and the software to control it are installed, a Linkam Stage Control selection is provided in the Collect menu.

Online Help Update

The online help accessed via OMNIC Help Topics in the Help menu has been updated to describe the above new features. It can be consulted for more details about them.

Resolved Issues

Improved Autofocus

The previously used algorithm could fail if the spectrum had a large amount of fluorescence, particularly if the fluorescence photobleaches. The algorithm used for focusing the system when Autofocus is selected on the Bench tab has been improved.

Known Issues

None

OMNIC for Almega 7.2a

Supported Operating Systems

- Windows 2000 SP4
- Windows XP SP2

New Features

None

Resolved Issues

Laser Calibration Failure

On some systems, the laser calibration failed because the camera shutter was being unnecessarily opened and closed during a previous white light calibration.

ValPro Signal-To-Noise Test Failures

The ValPro signal to noise test failed 5-10% of the time due to inadequate cosmic ray rejection.

Incorrect Serial Number Listed in the ValPro Qualification Report

The Almega bench serial number was incorrectly reported in ValPro Qualification reports.

Known Issues

None

OMNIC for Almega 7.2

Release Date: May-2005

Supported Operating Systems

- Windows 2000 SP4
- Windows XP SP1

New Features

Improved Cosmic Ray Rejection

In the Collect tab of Experiment Setup the Cosmic ray rejection control has been replaced by a Cosmic Ray Threshold control. Its setting determines the threshold for cosmic ray rejection used during data collection.

Autofocus Button on Bench Tab

If your system has motorized sample focus adjustment, you can adjust the focus automatically by clicking the Autofocus button on the Bench tab of Experiment Setup. A set of microscope objective selection buttons is displayed in the Beam Path / Sample Position control when the Microscope option is selected.

Resolved Issues

Unexpected hang-up when running laser calibration

On some systems, laser calibration hangs-up the system with a Background Collection progress dialog displayed on the screen. This issue was only a problem on high power lasers.

Known Issues

None

OMNIC for Almega 7.1c

Release Date: Feb-2005

Supported Operating Systems

- Windows 2000 SP4
- Windows XP SP1

New Features

None

Resolved Issues

Unexpected hang-up when running laser calibration

On some systems, laser calibration hangs-up the system with a Background Collection progress dialog displayed on the screen. This issue was only a problem on high power lasers.

Known Issues

None

How to Contact Us

Current contact information is located at <https://www.thermofisher.com>

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