

## 1 Purpose

This document describes new features and fixed bugs in the following new software version in comparison with the previous version.

- New version: 4.1.1.156
- Old version: 4.1.1.130

## 2 New features

Topic	Description
Leverage calculation	Leverage calculation with Vision is now available. This allows to detect outliers during routine analysis on a component level.
B&W Tek – Drivers	Drivers for B&W Tek portable Raman instruments have been added. The following instruments are now supported: <ul style="list-style-type: none"><li>▪ i-Raman® Plus 532S</li><li>▪ i-Raman® Plus 532H</li></ul>
NIRS PRO v2 – Integration	Vision supports the PRO FOSS v2.
NIRS PRO v2 – Integration time	The integration time can now be changed in the status dialog windows. This improves the usability.

## 3 Improvements

Topic	Description
Content uniformity test report	Empty pages have been removed.
DCM selection during import of xml files	Vision asks the user to define the DCM for each sample group in Vision Air XML files. This ensures that the user sets the correct DCM for all spectra he imports.

Topic	Description
SmartProbes – Low flux test description	During a noise test with external standards, Vision displayed misleading information about the reference scan measurement. This could lead to wrong sample handling by the user. This text has been adjusted.
Single fiber XDS – Performance test	The ranges and values for performance tests have been changed according to new specifications. The Peak observed from the filter sliders are removed from the evaluation.
B&W Tek – auto-integration	The determination of the auto-integration time is better and faster.
B&W Tek – auto-integration	The default value is a more realistic value.

#### 4 Fixed bugs

Topic	Description
Content uniformity test report	The time display for the last measurement of a content uniformity test was not identical between the test report and the <b>Recall result</b> functionality in Vision. This has been fixed.
Content uniformity test report	The report did not display the correct number of analyzed samples. This has been fixed.
SPC Export/Import	Files exported via SPC format in Vision could not be imported again by using the SPC import. This has been fixed.
NIRS XDS MasterLab Analyzer reflection mode – Low flux test	When performing a photometric test with external standard with an XDS MasterLab, the measurement lid did not open. Therefore, the internal standard was measured. This has been fixed.
NIRS XDS MasterLab Analyzer reflection mode – Low flux test	When performing a photometric test with internal standards with an XDS MasterLab, the test report indicated <b>Reference: external</b> . This has been corrected.
DS2500 Solid Analyzer – Test report	The test report for the DS2500 Solid Analyzer displayed as <b>Sampling System: RCM, Rapid Content Module</b> . This has been changed to <b>DS2500 Solid Analyzer</b> .
DS2500 Solid Analyzer – Open lid	When selecting <b>every sample</b> in the timer settings in the operation method configuration, Vision opened the lid too soon. This caused false results. This has been fixed
Hellma MUX – Driver	The driver for Hellma MUX applied window correction to 1 channel only. This has been fixed.
B&W Tek – Portable spectrometer	The displayed CCD temperature reading was not correct for all instrument models. This has been fixed.

Topic	Description
B&W Tek – Dark scans	When performing a dark scan, the laser was not switched off completely. This has been fixed.

## 5 Known bugs

Topic	Description
Tray selection	In seldom cases, the tray sample position selection window does not display the correct tray setup. Selecting the tray again can solve this issue.
Content uniformity test report	The report for content uniformity tests does not display the whole serial number of the instrument but only the first 4 digits.
DS2500 Solid Analyzer – Operation method configuration	The timer settings in the operation method configuration has been deactivated for the DS2500 Solid Analyzer restricting changes to the frequency of reference scans.
XDS spectra – DCM sample properties	In seldom cases, Vision crashes when opening DCM sample properties for XDS spectra if the configuration is not set to XDS Analyzer.

## 6 Compliance

The current software version does not contain any modifications that affect conformity of Vision regarding GAMP.

Requirements of 21 CFR Part 11 can only be activated when a Vision Pharma License has been used for the installation of Vision.