Mantra Snap Software Release Notes
Software Version: 1.0.5

This file provides information about Mantra Snap software, version 1.0.5. Please read this information carefully as it supersedes all printed material or online help.

Overview:
Mantra Snap provides the interface for interacting and acquiring data with the Mantra hardware. It enables brightfield lamp management, reference management, automated multi-filter acquisition, and optional post-processing of imagery. Mantra Snap must be installed on the acquisition machine.

System Requirements:
U.S. English Version of Microsoft© Windows 7 or Windows 10, 64 bit
.NET 4.5
Minimum monitor resolution: 1280x768
Minimum RAM: 2 GB

Software Installation:
To install Mantra Snap on Windows 10:
- Log in as an administrator
- Close all open software programs
- Double click on Mantra Snap's Setup.exe
- Follow the installer's instructions

Mantra Snap has been tested and validated on Windows 10. Installation is permitted on Windows 7 but performance is not guaranteed.

Mantra Snap Version 1.0.5
Bug Fixes:
- Update the search path for inform installations

Known Issues:
- The hardware must be powered down and the USB must be disconnected before software install
- Cutting power to the hardware during autoexposure and reference taking will cause the software to hang
- Rapidly pressing the hardware snap will cue up multiple acquisitions
- Changing to a non-brightfield filter while using a brightfield protocol causes an exception

Mantra Snap Version 1.0.4
New Features and Improvements:
- Support for new lamp and filters

Bug Fixes:
- Added warning for empty or duplicate bands
- Fix for non-filename characters in base name

Known Issues:
- The hardware must be powered down and the USB must be disconnected before software install
- Cutting power to the hardware during autoexposure and reference taking will cause the software to hang
- Rapidly pressing the hardware snap will cue up multiple acquisitions

- Changing to a non-brightfield filter while using a brightfield protocol causes an exception

Mantra Snap Version 1.0.3
New Features and Improvements:
- Windows 10 support

Known Issues:
- The hardware must be powered down and the USB must be disconnected before software install
- Cutting power to the hardware during autoexposure and reference taking will cause the software to hang
- Rapidly pressing the hardware snap will cue up multiple acquisitions
- Changing to a non-brightfield filter while using a brightfield protocol causes an exception
- The protocol editor does not warn you when you've added empty or duplicate bands

Mantra Snap Version 1.0.2
Note: This release may require you to retake references

New Features and Improvements:
- Improved screen imagery when the shutter is closed or taking imagery
- Added an underscore between the base filename and sequence numbers (so base filenames can end in a number and make sense)
- Update the auto-exposure rules to better handle rare events; these rules mimic Vectra

Bug Fixes:
- The Hardware setup application will no longer crash when the RS232 port is set to use the COM port the camera is using.
- Post processing now works with projects
- Limit the number of bands to 7
- Cube GUID now writes correctly
- Use the correct exposure limits before taking references

Known Issues:
- The hardware must be powered down and the USB must be disconnected before software install
- Cutting power to the hardware during autoexposure and reference taking will cause the software to hang
- Rapidly pressing the hardware snap will cue up multiple acquisitions
- Changing to a non-brightfield filter while using a brightfield protocol causes an exception
- The protocol editor does not warn you when you've added empty or duplicate bands

Mantra Snap Version 1.0.1
New Features and Improvements:
- None

Bug Fixes:
- IM3 files have a thumbnail preview in Windows Explorer
- Export folder is no longer carried over from a previously loaded protocol and the next valid number is re-generated
- Setting the next valid number no longer causes an exception if the export folder doesn't exist
- The trinoc no longer gets out of sync with the software

Known Issues:

- The hardware must be powered down and the USB must be disconnected before software install
- Cutting power to the hardware during autoexposure and reference taking will cause the software to hang
- Rapidly pressing the hardware snap will cue up multiple acquisitions
- The Hardware setup application will crash when the RS232 port is set to use the COM port the camera is using. (ticket:210) To avoid this problem, under most circumstances the RS232 port should be assigned to COM1 for Mantra
- Post Processing doesn't work with projects
- When the shutter is closed or the trinoc is set to the eyepiece only position, the live view is still displayed
- Changing to a non-brightfield filter while using a brightfield protocol causes an exception

Mantra Snap Version 1.0.0

New Features and Improvements:
- Acquisition of brightfield and fluorescence imagery
- Brightfield and fluorescence reference management
- Imaging band selection for fluorescence acquisition
- Exposure setting for fluorescence acquisition
- Image post-processing options after acquisition

Known Issues:
- The hardware must be powered down and the USB must be disconnected before software install.
- Cutting power to the hardware during autoexposure and reference taking will cause the software to hang.
- Rapidly pressing the hardware snap will cue up multiple acquisitions
- The Hardware setup application will crash when the RS232 port is set to use the COM port the camera is using. To avoid this problem, under most circumstances the RS232 port should be assigned to COM1 for Mantra.

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