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SciScan 1.1

Release Notes

Major Changes

Start Delay Look-up-table

Automatically records the last used start delay value for a set of scan parameters and re-uses this value when these parameters are used again.

Open Microscopy Environment Compatibility

Allows users to save images with OME compliant metadata and add additional content to the metadata if required.

16-Bit Multi-TIFFs for Resonant Scanning

Users can now save resonant scanning data as 16-bit Multi-TIFFs.

1 Objective selection for resonant scanning system

A drop down has been added to save and select different objective configurations.

SciScript Pre-sets

A Slow Z-Stack preset has been added to SciScript, more presets will follow.

Stand-alone line shift correction

A stand-alone VI (posthoc start delay correction.vi) has been included in the Extras folder in the SciScan Project. The VI allows re-aligning of raw images that were recorded with an incorrect start delay setting.

Python and Matlab Interface Added to Zip File

Communicate with SciScan through ActiveX Interface.

Bug fixes and minor changes

- "Z-Stack Start" button is now greyed out and disabled while "Focus" is active.

- If Z-Stack Table is unpopulated, "Move to Start" will no longer attempt to move the system to position 0,0,0.

- Adjusted leniency on Z-Stack start position to +/-0.3um.

- Added the ability to programmatically enable or disable the Virtual XYZ system without launching the pop-up window.

- Interplay between "frames.per.z.cycle", "no..frames.to.acquire" and "Cycles.To.Scan" has been adjusted to maintain that the "no..frames.to.acquire" is divisible by 4 to ensure that no data is lost when saving.

- Fixed incorrect "volume.rate" calculation.

- "Laser.Power" is now disabled while the piezo scanning function is enabled as laser power values will be taken from the Z-Stack table.

- X and Y Positions are now also checked along with the Z position before executing a Z-Stack.

- Added absX, absY and absZ variables.

- Added "SetVirtXYZ" and "SetAbsXYZ" variables to SciScan to programmatically set the Absolute location or Virtual coordinate location in the tilted XYZ plane.

- Colours changed on Virtual XYZ dialogue to white on grey rather than black on grey.

- Start Delay control changed to a slider on Galvo Analogue Input Tab

- Batch file now being written when a raw file is cancelled

- Changed behaviour of sliders on main GUI, value now only submitted when the mouse button is released.