SciScan 1.3

Release Notes

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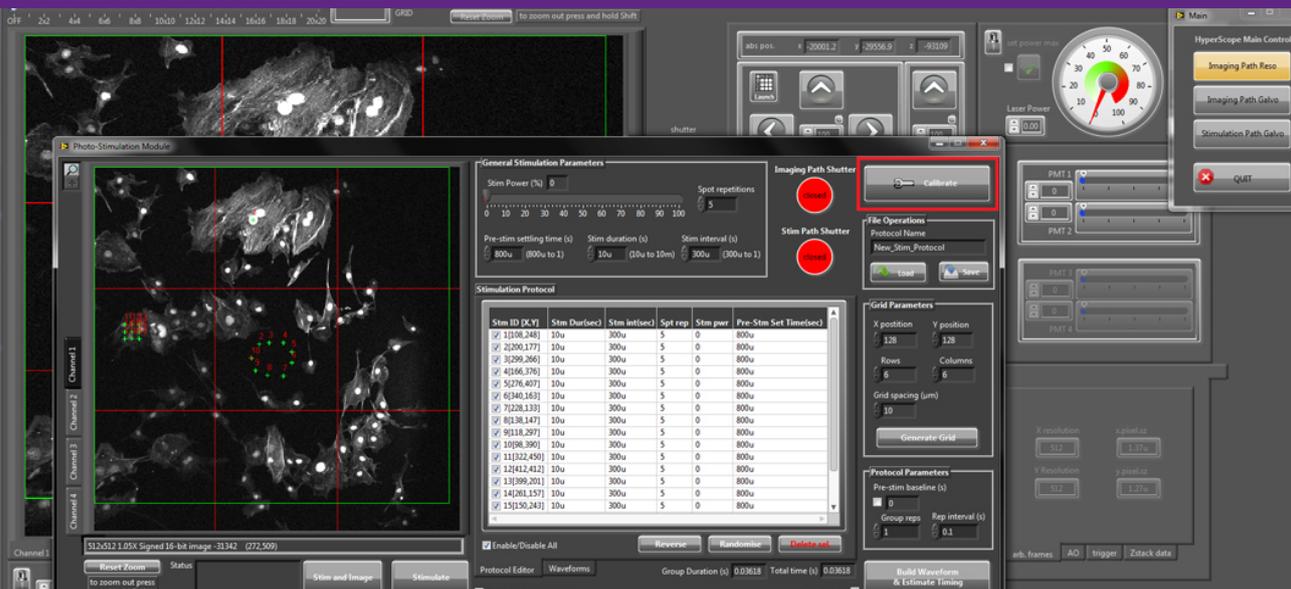# SciScan 1.3

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Multi-Scanner oriented

For use with the Scientifica HyperScope, the software is now started from a VI named **SciScan HyperScope**. This provides access to a light path selector, pre-populated according to the present hardware configuration. User Interfaces of the Resonant and Galvo Scan Engines have been optimized for the use with dual-beam path and three-mirror systems and modified for consistency as well as improved user experience.

Photostimulation (Galvo systems)

This module allows the use of the HyperScope's second beam path for multiphoton photostimulation. Photostimulation can run on its own or concomitantly with imaging. Importable and exportable stimulation protocols can be easily set up to stimulate points, groups of points, as well as repetitions of stimulations, with full control over the stimulation parameters. This module is available for all systems with a Galvo imaging and/or photostimulation path. For single beam path systems, the legacy "uncaging module" from previous SciScan versions is available upon request.

Calibration Module (HyperScope dual path)

To take full advantage of the dual path system, a calibration module has been created to register the photostimulation path to the imaging path. Doing so will allow simultaneous imaging and photostimulation through the photostimulation module. Depending on the hardware, imaging can be performed with either the Galvo or Resonant Scan Engine.

New optional plugins are now available:

- *Artificial motor:* Used to decouple the motor from SciScan. This allows defining of piezo scans from SciScan while the motors are in use by other software (e.g. LinLab).
- *KR module*: A simplified version of the Position save module.
- *Replay logger:* Debugging tool to log user/software interactions.
- *Piezo Z-positioning module:* Allows the use of the Piezo to set up a slow volume scan.

SciScript "Generic" macro command now accessible - Any GFG variable (e.g. Laser.Power) can now be used and modified in the macro module for advanced scripting and generation of new macros.

For minor changes and bug fixes please see full release notes.