MicroImager™ fact sheet

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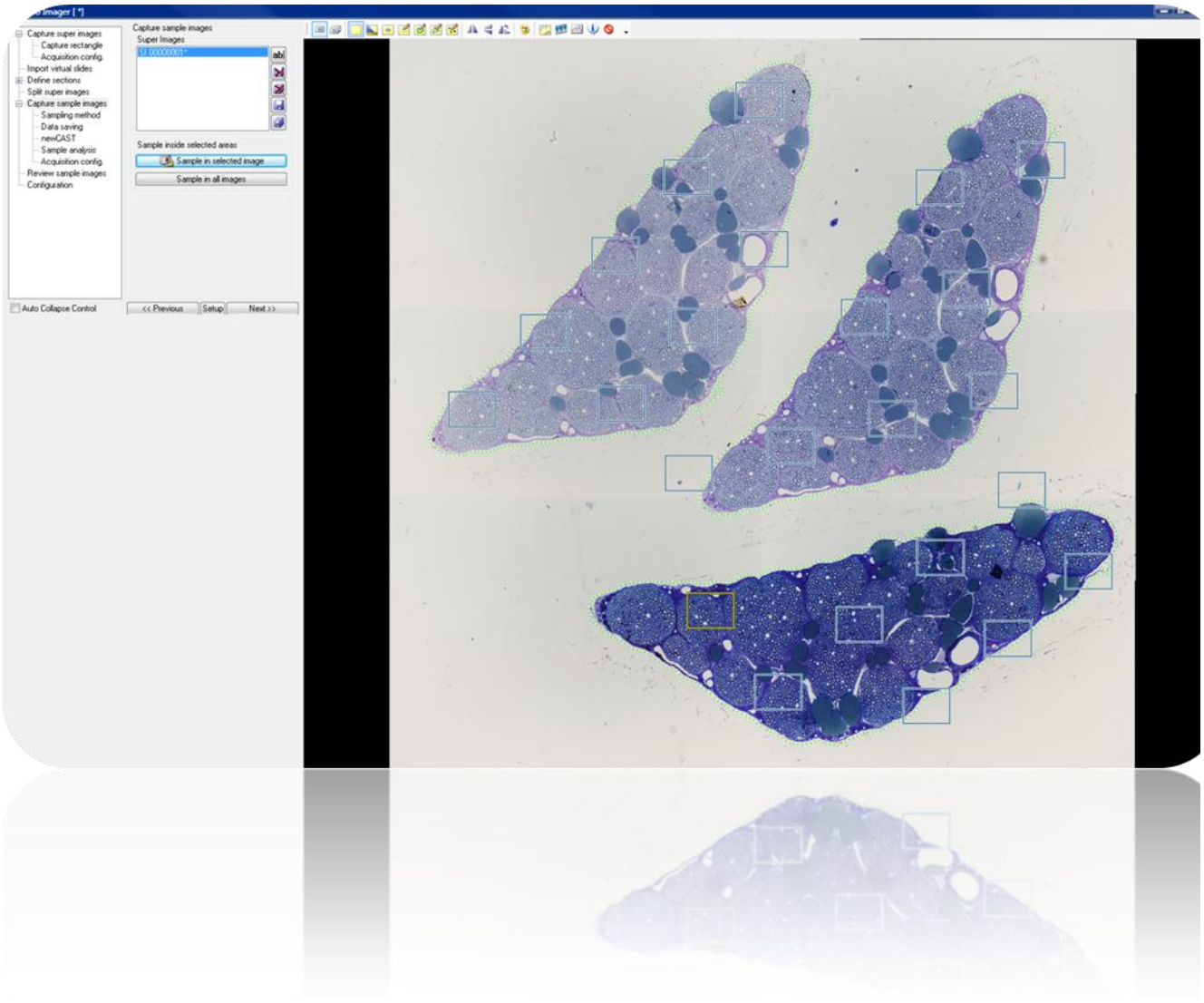

With the advent of high through-put slide loaders and high content samples, such as tissue micro arrays and stereology sections, the need for convenient and flexible software acquisition tools has never been greater. With MicroImager™ time spent setting up comprehensive acquisition and sampling regimes is minimized.

MicroImager™ extends capabilities across a number of challenging acquisition and analysis environments and is ideal for creating a sound basis for automated imaging and analysis solutions as experimental demands grow.

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Technical overview

Unattended imaging for off-line analysis

Create overview images of your slides:

- Optional autofocus during capture
- Automated correction for uneven illumination of image field (for seamless stitching)
- Automated stitching of images based on stage coordinates or adjustment to previous

Navigate the slides under the microscope by clicking in the overview images

Detect and define tissue sections and regions of interest on your slide:

- Specific, automated detection of regions of interest possible with the Visiomorph™ image analysis module

Automatically capture series of high magnification, (auto-)focused images from your tissue

- Central sampling
- Complete scanning
- Systematic Uniform Random Sampling
- Proportionator™ sampling method (add-on module which requires Visiomorph™)

Note: The “Complete scanning” functionality does not generate Whole Slide Images, but rather high magnification images of large regions.

Switch between fluorescence filters in preset sequences during acquisition

Capture series of z-stacks from thick tissue sections

Handle automated sampling from 1 or many slides (if connected to a multi-slide stage or slide loader) or virtual slides (require WSManager™)

Store all captured images in database for review and analysis in newCAST™ or Visiomorph™

Easy reviewing of images in captured series

Automatic recapture of individual images at specified positions in series

Perform on-the-fly image analysis protocols during capture of image series, for fast determination of quantitative endpoints (Visiomorph™ module required)

Save and use preset acquisition configurations to control lenses, filters, illumination and exposure time during automated image capture

WSManager™ (Whole Slide Manager add-on)

Enable sampling and analysis of Virtual Slides

Ability to work with virtual slides/whole slide images from Zeiss Mirax scanner, Hamamatsu NanoZoomer, Aperio Scanscope

Navigate in the virtual slide and change magnifications as if on a live microscope in Acquisition and NewCast™ Modules.

Automatically generate overview images at low magnification for detection of tissue regions of interest (ROI’s) for subsequent sampling of image series

Perform sampling of series of images from individual tissue sections using the MicroImager™, paired tissue sections using the AutoDisector™, or from tissue micro arrays using the ArrayImager™.