Quick Reference Feature Sheet
INFINITY ANALYZE 7

Image Processing

Captured images can be selected from the Gallery where a range of image post-processing functions can be applied. Sets of images can be processed into a Focus Stack or Stitched together to create an image mosaic. Other processing functions include sharpening, sketch, negative, monochrome, contrast stretch, equalization, cell counting, and more.

Fluorescence acquisition

The Fluorescence mode allows for multi-channel or single channel image capture with controls mirroring those available in Brightfield mode, with a streamlined process to acquire a sequence of channels into a composite result. Click to capture the current channel image and automatically advance to the next channel in the sequence with camera settings retained by channel. The user interface appearance switches to a darker shade when in Fluorescence mode.

Calibration and Presets

User-defined button labels and hot-key assignments allow faster access to Presets when switching microscope objectives. A management tool allows for the stored Presets to be revised or deleted, with new controls available to back-up and share settings using an Export/Import feature. Camera settings are retained in user-defined resets, including links to calibration data and/or Flat-field Correction (FFC), and are persistent between sessions. Import your existing Presets directly from the previous release of INFINITY ANALYZE (6.X).

Annotations

Add lines, arrows, and shapes to highlight areas of interest in captured images or include annotations on the Live Preview to have them included in each captured image. Customize shape fill line width, line style, and font. Easily copy annotations from a captured image into the Live Preview for duplication onto other images.

Camera Controls

The camera control settings and adjustments are easily accessible for changing the exposure, gain, and white balance. Auto-exposure functions work on either a mean or peak intensity within the image. Choose the hybrid exposure mode for very low-light situations, where the camera sustains a reasonable frame rate for framing and focus adjustment while simulating a long exposure time. An in-app Help function provides a quick guide to get started with using the INFINITY camera in either Brightfield or Fluorescence modes, on application launch.

Multiple Platform Support

The same application functionality and workflow is available on the Windows and Mac operating systems. The application benefits from 64-bit architecture.

Appearance and Workflow

The basic layout of the application remains consistent with the original INFINITY ANALYZE software (release 6.X), Although controls and buttons now have a updated appearance, and a number of optimizations to the workflow have been implemented, reducing mouse clicks and resource allocations to improve performance. Arrange, show, or hide dockable controls, or enable full screen mode, to configure the application layout that works best.

Live Preview, Capture, Time Lapse, and Video

View the live feed from the camera and use the controls to easily capture and preview individual images, store them in the gallery, or automatically save them to disk with a selected format and custom file naming sequence. Review images stored in the gallery and open them in the working area. Setup the interval and duration for time lapse capture or record and playback a video clip

Image Gallery

A thumbnail Gallery becomes the central storage mechanism providing quick and easy access to review, select, open, save, or process single and multiple images. The Gallery can be visible or hidden to suit the user's preference. A Gallery interaction tool allows for acquired images to be selected for further processing such as image stitching, multi-focus composition, color composition, and other operations.

Histogram and Look-Up Tables

The size of the histogram auxiliary window has been increased. Individual color channels can be manipulated in Look-Up Table (LUT) controls, with pseudo color output available for mono cameras in the Fluorescence mode.

Measurements

Make accurate linear and area measurements based on the current objective magnification. Distance, Rectangular region, Elliptical region, Polygonal region, and more. Measurement labels update on screen in the live preview, as they're being made. Label settings, measurement units, and appearance of graphics can be easily customized. Include scale bars on the live or captured images. Copy/paste measurement results into a spreadsheet application.

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