Features included in iSolution Chameleon

Include:

Live Measurement and Overlay Settings

Users can perform measurements on the live preview image, using the crosshair or grid masks to center and count. The grid masks include calibration data. Calibration marker (scale bar) can be placed on the live preview image. The marker (scale bar) can also be burned on each captured image automatically. Any standard file format image can be chosen to see it above live preview image

Calibration (Auto, Manual)

All measurements start with an accurate calibration. Auto and Semi-Auto calibration functions allow the software to calculate the pixels-per-unit value automatically. One need only to set the unit for the calibration scale and the distance between the scale marks. This feature greatly improves the accuracy and repetition of measurements. Manual calibrations are easily added and saved for recall from a drop down menu. A scale bar can be permanently added to each image. Scale bar properties for color, size and text are simple to optimize for any image background.

Z-Axis Extended Focus Imaging (EFI), with displacement compensation for stereo microscopes

Samples with curves or of varying heights are difficult to bring into focus under highly magnified conditions. Software can combine a stack of images sequentially captured at different levels of focus and combine them into a single in-focus image. You can count on our software not to leave any trace of the composites.

3D Visualization. . . clearly view complex structures

A Three-dimensional picture can be created from any image. The 3-D presentation is based upon intensity values of the image and can be displayed as a normal or wire frame image. Z axis information can easily be adjusted to optimize the 3-D effect. To better visualize an image in 3-D, software offers full 360 degrees of rotation on X-Y-Z axis. A 3D image can then saved in JPG, TIF or BMP format.

Image Stitching. . . create a mosaic of the "Big Picture"

With our software, you can create auto composites of continuously captured images in order to minimize the reduction in the field-of-view that typically comes with increased magnification. Combined images are automatically corrected for brightness.

Live Image Comparison... for fast inspection and size verification

For QA testing or quick go/no-go inspections any stored image can be used as a reference image onto which the live preview image is projected.

Time Lapse Capture and Movie File Production. . . Import into Power Point

Software features a Time Lapse Capture function that supports TIF, BMP and JPG file formats. The Time Lapse Capture function also includes an Auto Save feature. You can save video movie recordings in AVI, MPG, MPEG, and MOV formats.

Combine Image Planes - Fluorescence Imaging

Merge and pseudo color monochrome images into a single RGB composite.

Export Into Excel® - with one mouse click

A single mouse click exports the original image with measurement, calibration, annotation overlay, measurement data, statistics, and chart.

Manual Measurement Tools - Including Various Perpendicular Distance

Software's versatile manual measurement features include tools for measuring lengths, areas, and angles and can even auto detect an object's outline and then make specified measurements. The software is equipped with a wide choice of powerful measurement tools including 3-point circle functionality, N-point circle measurement functionality, parallel line distance measurement, perpendicular distance measurement and object distance measurement. In addition, a zoom-in window can be used to determine the accurate measuring point of an object. Once you've measured a specimen you can easily export all of the images, measurement data and statistics to an Excel® file. With iSolution Chameleon, comprehensive statistics and data are just one effortless mouse click away.

Line Profiling

Single, multiple, parallel and polyline commands provide intensity values for specific lines within an image.

Auto Trace

Using an automatic edge detection algorithm, our software will perform an auto trace measurement function around a closed object. This function greatly increases accuracy and saves time when making measurements of complex shapes.

Image Processing

Manual Brightness, Contrast, Gamma, Background Subtraction, Shading Correction, Histogram, Clone, Crop, AOI, Resize, Rotate, Split, Merge Monochrome series into RGB Color, Combine different exposure Images for highlight reduction, Image Mode Change, Grayscale, RGB, HSB, YUV Pseudo Color view, Full range of enhancement and morphology filters 8bit and 16bit per channel

Manual Measurements

Point Count, Straight Line, Circle by radius, Circle by N points, Circle by diameter, Circle by 3 points, rectangle, polygon, polyline, splice lines from a common point, auto trace, angle parallel lines, perpendicular width, perpendicular from common line, angle between 2 lines, distance,

perpendicular distance.

Annotation

Line, arrow, polyline, spline, rectangle, ellipse, text

Region of Interest- ROI. . . . with unique add/subtract capability

Rectangle, arbitrary rectangle, circle, arbitrary ellipse, polyline, spline, magic wand

Line Profile

Straight line, polyline, parallel line. Each profile in a different color.

View and Zoom Image

Manual zoom In-Out, User Defined, Fit to Window, 1600% Zoom in Window for Accurate Edge Detect, sizeable context Window to view all open Images

Image Editing

Undo, Redo, Copy, Paste, Paste New, Delete, Delete All, Annotate, Image Information

Save Options

TXT File Format, image and measurement data together in Proprietary .img File Format for future editing and data collection

Supported Image File Formats

jpg, jpeg, jpe, tif, tiff, bmp, gif, pcx, tga, mpg, mpeg, avi, mov, img, rpt, txt and etc.

Report Generator

Create Report, Insert Image and Data, Insert other OLE Objects

Window View

Split Horizontal, Split Vertical, Cascade, Tile Horizontal, Tile Vertical, Arrange icons, Dynamic User Interface (UI); Classic, Modern

Time Lapse Sequence Control

Play Forward, Backward, Making Movie File (mpg, avi, mov) with Still Images, Split Single Image from Sequence File

Reflected Light Subtraction

iSolution Chameleon creates clear, evenly illuminated images by removing the bright saturated light from a highly reflective sample.

Perfect Focus Enhancement

iSolution Chameleon implements a perfect function of focus compensation irrespective of the status of lights and specimen.

System Requirements

- PC with a Pentium-class processor; Pentium 300MMX or higher recommended
- Microsoft Windows 98SE/ME/2000/XP/Vista operating system

- 32 MB of RAM or more (128 MB recommended)
- 15 MB or more hard-disk space (50 MB recommended)
- CD-ROM drive
- VGA or higher-resolution monitor; Super VGA recommended (1024 x 768 pixel and 24 bit and more color support video card is recommended)
- Microsoft Mouse or compatible pointing device
- USB- or LPT-port for hardware key (depends on delivery).