

# INFINITY ANALYZE

## > QUICK START GUIDE <



This reference guide will help you quickly set up your camera and efficiently capture images.

Install INFINITY ANALYZE and launch the software from the Windows Start menu.

### Part I: Camera and Capture Control

#### 1. EXPOSURE/CONTINUOUS AUTO EXPOSURE

Adjust the *Exposure* slider until your image has the appropriate brightness level, or, if you prefer, choose *Continuous Auto Exposure* to have the camera automatically adjust to variable lighting conditions.



FIGURE 1

#### 2. WHITE BALANCE

Remove your sample from the camera's field of view and click the *White Balance (WB)* icon. You may also perform a white balance on a specific white area on your image by clicking the *Area WB* icon.

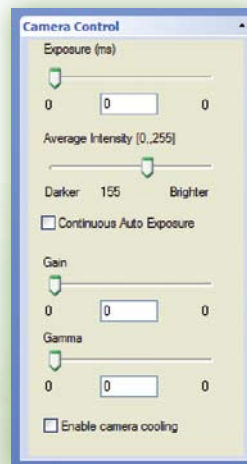


FIGURE 2

#### 3. IMAGE CAPTURE

Click on the *Capture* icon to capture an image, or double click on the the preview window. To save the image choose the *File* drop down menu and select *Save* or *Save As*.

### Part II: Measurement and Annotation

#### 1. CALIBRATION (CAPTURED IMAGES ONLY)

Prior to beginning a calibration, turn off the *Fit to Window* option. To perform a calibration: 1) Place a stage micrometer in the field of view. 2) Select Calibration from the measurement drop down menu, transforming the cursor into a crosshair. 3) Left click once to start the calibration. 4) Drag the cursor over a known distance then left click again to complete the calibration. This produces a *Micrometer Calibration* dialog box. 5) Input the length you have measured across the stage micrometer and the magnification on your microscope optics. 6) Choose a linear measurement unit and input its conversion to microns (i.e. inch (in) = 25,400 microns). 7) Press OK to complete the calibration.

Note: The .SIF file format retains all calibration and measurement information. Please ensure files are saved in this format if future measurements are to be taken.



FIGURE 3

#### 2. SAVING CALIBRATIONS

Multiple calibrations can be saved in the *Capture Control* section as seen in Figure 3. To save a calibration select the *Add* icon, which produces a *Preset Name* dialog box. Choose a name for the calibration, such as the optic you calibrated against (for example 10x), then select OK to save. Prior to capturing your images you must choose the applicable calibration in the drop down box above the *Add* icon.

### 3. FINDING CALIBRATION INFORMATION

Calibration data for the live preview and captured images is found on the bottom right hand corner of the application window. The third item from the right is the current calibration setting. The status bar is available under the *View* drop-down menu.

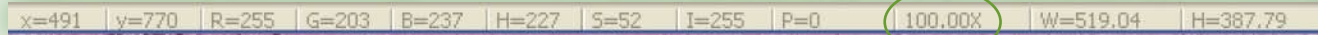


FIGURE 4

### 4. MEASUREMENT (CAPTURED IMAGES ONLY)

Once the software has been calibrated, measurements may be performed on any captured image. Measurement options are stored in the *Measurement* drop-down toolbar. Select a measurement option, transforming the cursor to a crosshair, choose your starting point, left click, drag your mouse to the end of the item being measured, and left click to finish.

### 5. MEASURE OPTIONS

*Measure Options* can be found in the *Measure* drop down menu. Here users can select the number of decimal places and other measurement options, such as nomenclature. To change the color or size of a measurement, select *Overlay Color* or *Overlay Size* in the *View* drop down menu.

### 6. BURN ANNOTATIONS AND MEASUREMENTS

Select the *Burn Annotation* icon to permanently add measurements and annotations to an image. The *Burn Annotation* icon is found in the *Annotation* drop-down menu.

**Note:** All measurements and annotations will be lost if an image is saved without burning it first. The *Burn Annotation* icon is found in the *Annotation* drop-down menu.

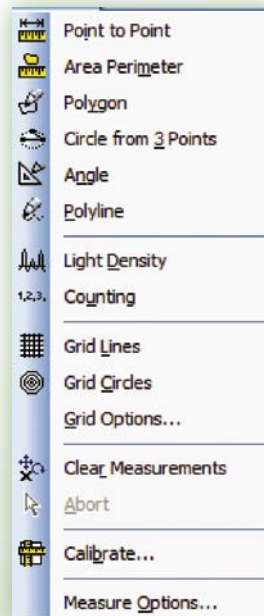


FIGURE 5

## Part III: Additional Help

### 1. FLASH TUTORIALS

Flash tutorials are available on the support/download section of the Lumenera website at [www.lumenera.com/support/downloads/microscopy-downloads.php](http://www.lumenera.com/support/downloads/microscopy-downloads.php). These tutorials offer an excellent opportunity to view the various functions of INFINITY ANALYZE.

### 2. INFINITY ANALYZE USER'S MANUAL

The help section of your INFINITY ANALYZE software contains a complete user-friendly manual that includes a detailed description of all the features available. This can be found in your INFINITY software CD, where the software files are stored on your computer, or in the software help menu.

### 3. LUMENERA TECHNICAL ASSISTANCE CENTER (TAC)

The Technical Assistance Center (TAC) offers full technical support for all INFINITY cameras. Hours of operation are 9am to 5:30pm EST, Monday to Friday. You may also contact them at [support@lumenera.com](mailto:support@lumenera.com) or by phone **(613) 736-4077**.

### 4. SOFTWARE UPGRADES

INFINITY software is upgraded every 4–6 months. Upgrades are available at no cost for current INFINITY customers. The newest versions of INFINITY software may be downloaded from the Lumenera website at [www.lumenera.com/support/downloads/microscopy-downloads.php](http://www.lumenera.com/support/downloads/microscopy-downloads.php).