Rock Imager 1000 Visible Imaging Image Quality

<http://www.formulatrix.com/demosite/protein-crystallization/products/rock-imager-1000/index.html#tabbed-nav=tab3>

**Image Quality with Highest Resolution Available in the Market**

**Continuous zoom optics with highest resolution**

Infinite zoom values are available up to 12x magnification allowing you to zoom in exactly to drop sizes and defined Regions of Interest.

Optical resolution ranges from 1.5 µm (high zoom) to 8 µm (low zoom) and is the highest resolution available in an automated imaging system.

**Extended Focus Imaging is utilized to maintain high resolution and high depth of field**

High resolution means that you have a lower depth of field when imaging drops so the entire drop will not be in focus at the same time.

To obtain images with high optical resolution a high NA (numerical aperture) objective must be used. The trade off of this approach is a reduced depth of field (depth of the object seen in focus). To achieve high optical resolution and high depth of field Rock Imager captures several images at different heights (slices) and computes an image that contains the best focused pixels from each of the slices. This is called Extended Focus Imaging.