

Image Stitching with Autostage on the DSX-Series Opto-Digital Microscope



Olympus® DSX100

LECO Corporation; Saint Joseph, Michigan USA
NOTE: Product available in USA only.

Examining a Large Weld Sample

A weld sample is placed under the DSX100 equipped with the 3.6X objective. Because the weld is large, only a small portion of it can be viewed, even at the lowest zoom setting.

Using the Automatic Stage and the DSX100's "High Quality Panorama"/Stitching Feature

High Quality Panorama is selected from the Stitching menu. This opens a window with several options for automatically creating a stitched image. The most straightforward method of capturing multiple images is to select the number of images desired in both the horizontal and vertical directions. In this example, 16 images will be captured, in a 4 by 4 grid. The current (live) field of view is set as the center of the grid. When the operator is ready to begin, the ON button is pressed, then Acquisition. The DSX autostage moves to each of the fields of view, in order, and automatically captures an image at each. When it has finished capturing the 16 images, a single stitched image is created.



Analyzing a Stitched Image

Accurate measurements can be made on a stitched image exactly as they are made on conventionally captured images. This includes all of the DSX Basic and Advanced measurements. Annotations can also be added to stitched images (see screenshot below). It should be noted, though, that lines added to a stitched image will appear thinner than those placed on a single image, since they are a specific number of pixels wide, and the image pixels appear smaller. This phenomenon is also true for text, since the point size is dependent on a certain number of pixels.



Creating a DSX100 Report

One of the standard report templates can be used for automatically creating reports.



Custom templates can also be easily created to add a company logo, special information, annotations/drawings, etc., in a user-defined layout.

Reports can be generated as PDF files, or be exported to Excel in the Rich Text Format.

