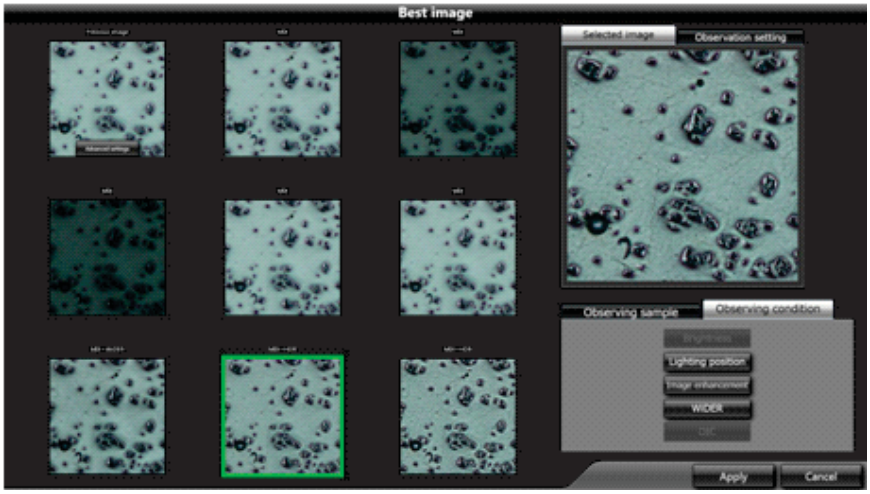
The DSX-Series Opto-Digital Microscope Best Image Feature

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

Olympus® DSX500

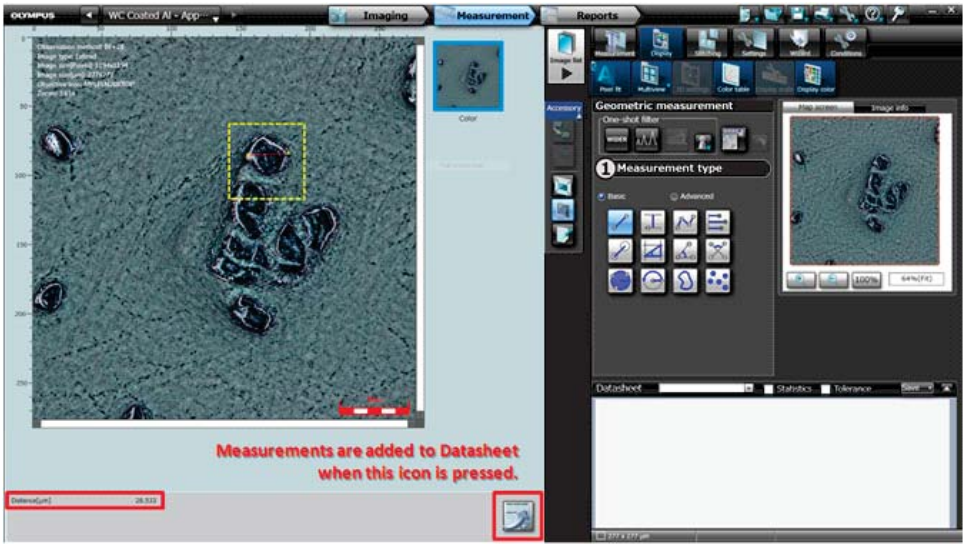
A plasma spray coated aluminum sample is metallographically prepared, so that a few tungsten carbide particle measurements can be made. The sample is placed under the DSX500 for examination. To easily locate an area for analysis, the 5X objective is utilized, at its lowest zoom setting.

The DSX's "Best Image" feature is used to automatically adjust the illumination for the clearest, most useful image. In this case, the "Best Image" selected involved "MIX", a unique combination of both brightfield and darkfield illumination. Also included was "Fine HDR", an efficient method of lightening up shadowy areas and toning down very bright features.

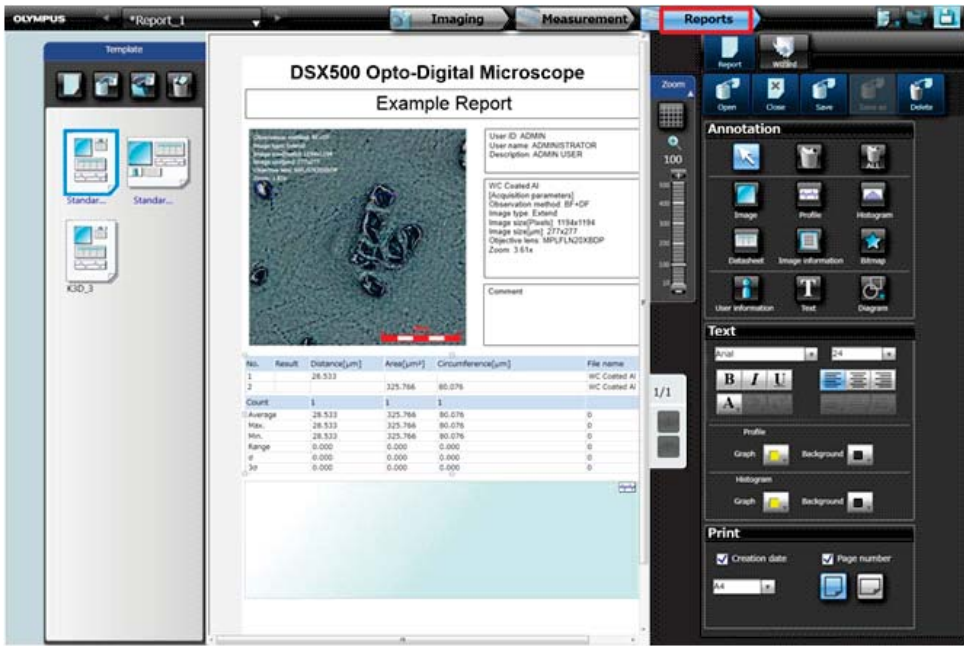


Metallographic Application Note

The required particle measurements could be made on the live image, prior to capture, or on a captured image. In our case, we decided to capture the image first, and then make the necessary measurements.



A simple point-to-point measurement of a tungsten carbide particle is all that is required on our sample. After two mouse clicks, the measurement is made and the data added to the datasheet. This assures that the measurement is added to our database record, and appears on the report that we will be creating. One of the standard report templates can be used for automatically creating reports, or custom templates can be created which feature a company logo, special information and annotations/drawings, in a user-defined layout. These reports can be outputted as PDF files, or be exported to Excel in the Rich Text Format.



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