

“Clemex has developed a very flexible image analysis system for which they provide extensive support”

Gene Burger
Senior R&D Engineer
Westcast Industries Inc.
Brantford, ON

Multiple Field **Automation**

Stage and Auto-Focus Kit



For high throughput environments, the *optional* motorized stage and auto-focus kit is highly recommended. Adaptable to all major microscope brands, you can significantly increase your productivity while taking advantage of some key Clemex Vision software features such as image stitching, 3D image reconstruction, 3D rendering, and object tracking.

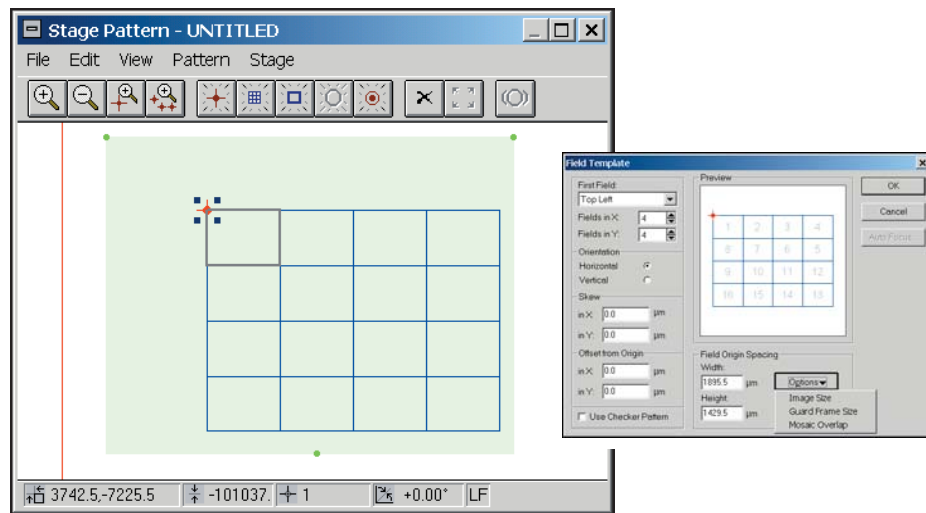


Software Controlled Stage and Focus



Simplify the analysis of multiple fields with Clemex Vision's stage and focus automation tools. Highly flexible, you can determine sample origin, set the number of fields to analyze, establish specific autofocus fields or opt for a linear focus for sloping samples.

- set up multiple simultaneous stage patterns
- control field origin spacing
- move stage patterns
- save patterns



Instantaneous Object Tracking



Clemex Vision remembers where your analyzed objects are located. After a *Run*, just click a measure in the *Data Browser* and the stage automatically moves to the correct field and highlights the object of interest. All corresponding measures are automatically recalculated on the fly if objects are deleted.

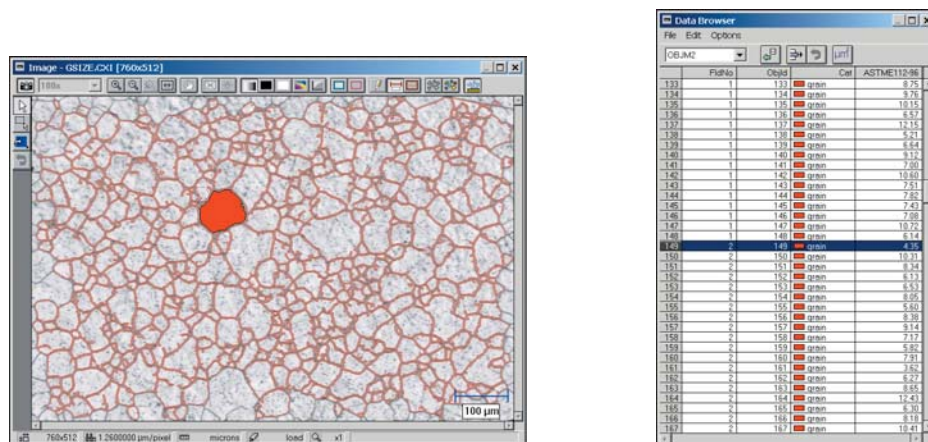


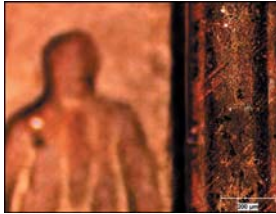
Image Capture Highlights

Multi-Layer Grab

Focusing on uneven surfaces can be troublesome. With the multi-layer grab function, intelligent software slices your image at varying z-intervals to reconstruct a completely focused image. Below is an example of an American one cent coin magnified at 100x with fifteen layers sliced and reconstruction.



Layer 1



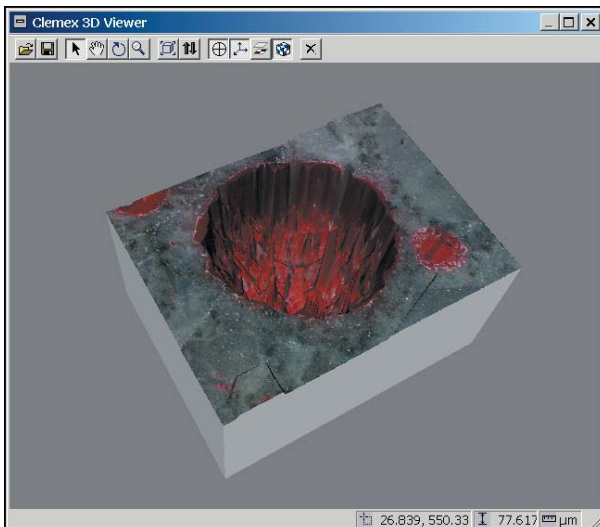
Layer 10



Reconstructed Image

3D Rendering

Need to visualize your specimen three dimensionally and measure its depth? Then use the *optional* Clemex Vision 3D rendering viewer tool. Below is an example of a cement air void dyed in red ink. Seventy-five layers were captured and reconstructed.



- zoom in/out
- rotate 360°
- set colors
- flip image in/out

Mosaic



Forget tape and scissors! With the *optional* mosaic feature, Clemex Vision automatically stitches multiple fields to form a large image of unlimited resolution (memory dependent). This example demonstrates a wafer magnified at 200X with four stitched fields.

- use with a manual or motorized stage
- for uneven surfaces, combine the multi-layer grab function with the mosaic feature (requires optional autofocus kit)
- when running in manual mode, positioning arrows allow you to accurately stitch multiple fields
- control the number of fields to stitch, starting points, and more...

