imageGEO 193

THE ULTIMATE PERFORMANCE FOR LASER ABLATION GEOIMAGING

THE ONLY LASER ABLATION SYSTEM DESIGNED
FOR MAXIMUM PERFORMANCE IN GEOIMAGING

FEATURES

- RAPID IMAGE PROCESSING
- 1 MS PEAK WIDTHS
- 1-220 µM SPOT SIZES
- 20X VIEWING OPTION

Water-cooled, 500 Hz (or 1 kHz upgrade option) laser frequency speeds up the imaging process.

Equipped with ESL's TwoVol3 and DCI technology providing 1 ms peak widths for up to 1000 pixels per second.

"Imaging Mode" ensures control of laser dosage and pixel overlap.

20x viewing (upgrade option) provides ultimate clarity when viewing geological specimens with resolution <0.55 µm.

INNOVATION TO ILLUMINATE

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Laser Ablation System | Geoimaging

XYR Beam Shaping

- Square and rectangular ablations
  - Sampling matches pixels
  - Spot size = 1-220 µm

Microscope Viewing

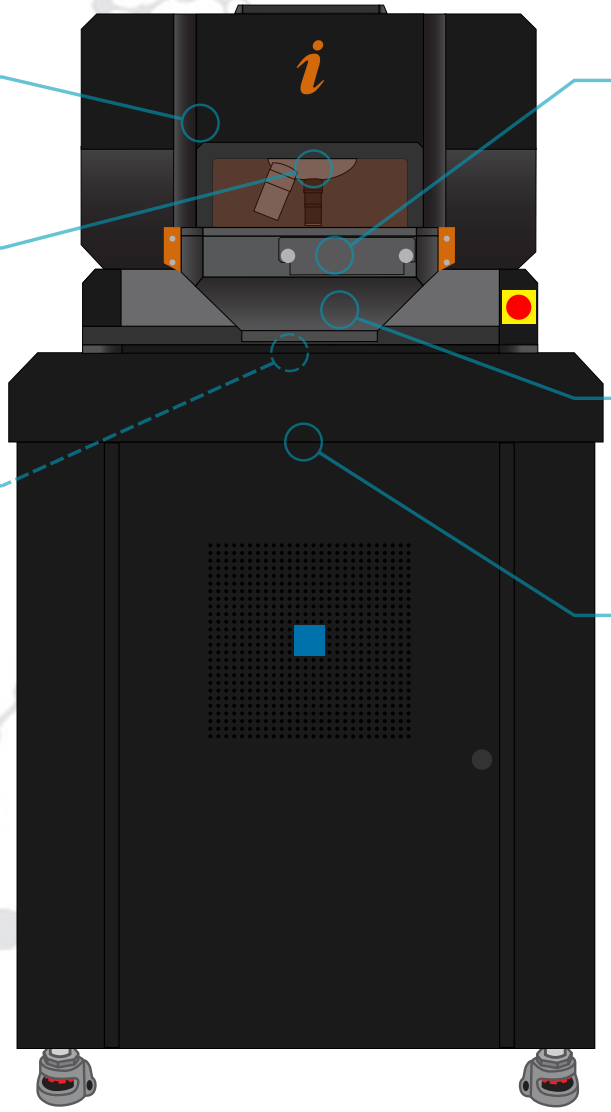
- Ultra-HD viewing of the sample
- < 0.55 µm resolution
- 20X video objective (upgrade option)
- Software switchable objective

Beam Delivery System (BDS)

- Purpose designed sealed and purged BDS with minimal number of rotatable optics for lowest cost of ownership

Imaging Mode

- Provides edge-to-edge ablation and controlled laser dosage



TwoVol3 Ablation Chamber

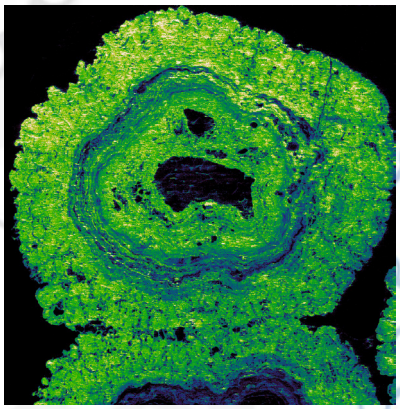
- Imaging Interface: Ultra-fast washout (< 1 ms – 1000 pixels/s) for high sensitivity and high imaging resolution
- Analytical Interface: Switchable cup for high precision data analysis
- Typhoon Purge: World's most efficient air removal system

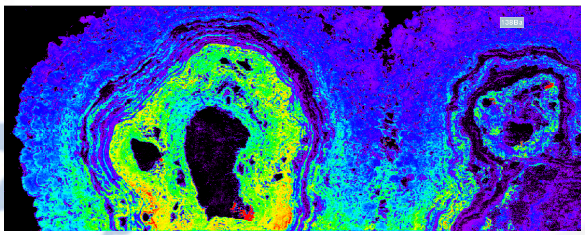
Nanograde High-Precision Stages

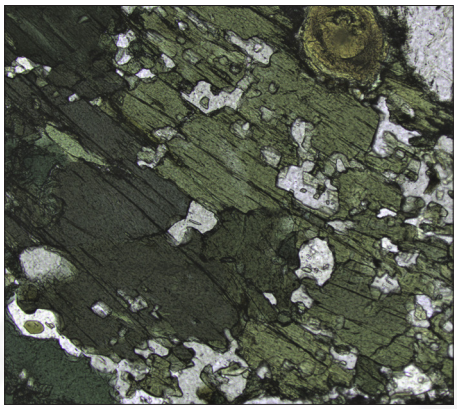
- 10 nm resolution at high speed with closed-loop feedback for perfect position recall

High Frequency 193 nm Excimer Laser Source

- Water cooled, 500 Hz frequency for stable high-speed imaging
- 1000 Hz available (upgrade option) – ideal for ICP-TOF-MS integration







Elemental Scientific LASERS

© Elemental Scientific Lasers LLC | 685 Old Buffalo Trail | Bozeman, MT, 59715 | United States
Tel: + 406 586 3159 | lasers@icpms.com | www.icpmslasers.com

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