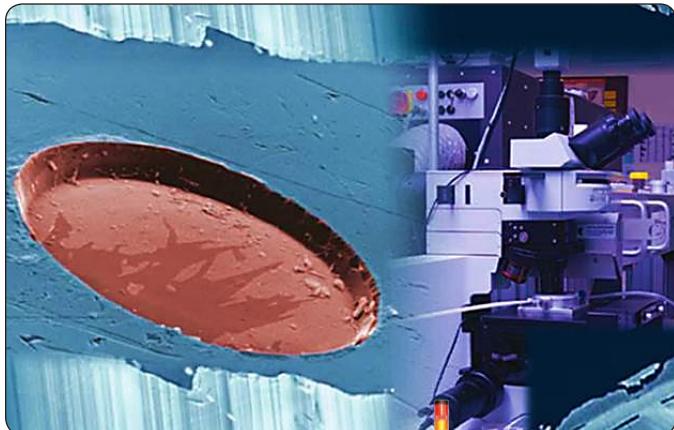


# GeoLasHD

Superior Solid Sampling at 193 nm

## Young Zircons, Fluid Inclusions and More

GeoLasHD is the next generation laser ablation system for all-encompassing LA-ICP-MS elemental and isotopic analysis. Powered by the mighty COMPexPro laser, it uniquely combines sturdy high-resolution optical design, expert petrographic microscope and the latest in Full-HD camera technology. The GeoLas EAGLE control software features Full-HD live monitoring of micron-size features and seamless sample surface mapping.



**Superior Reliability & Performance**

## GeoLasHD Features:

- Superior Schwarzschild Ablation
- Novel Full-HD Camera
- GeoLas EAGLE software
- Multi-Format Sample Cell
- Sub-Micron Precision x-y-z-stage

## GeoLasHD Applications:

- Isotope Ratio Determination
- Fluid Inclusion Research
- U/Pb-Age Dating in Zircons
- Marine Sediment Analysis
- 193 nm Multicollector ICP-MS
- Gemstone Fingerprinting

# GeoLasHD

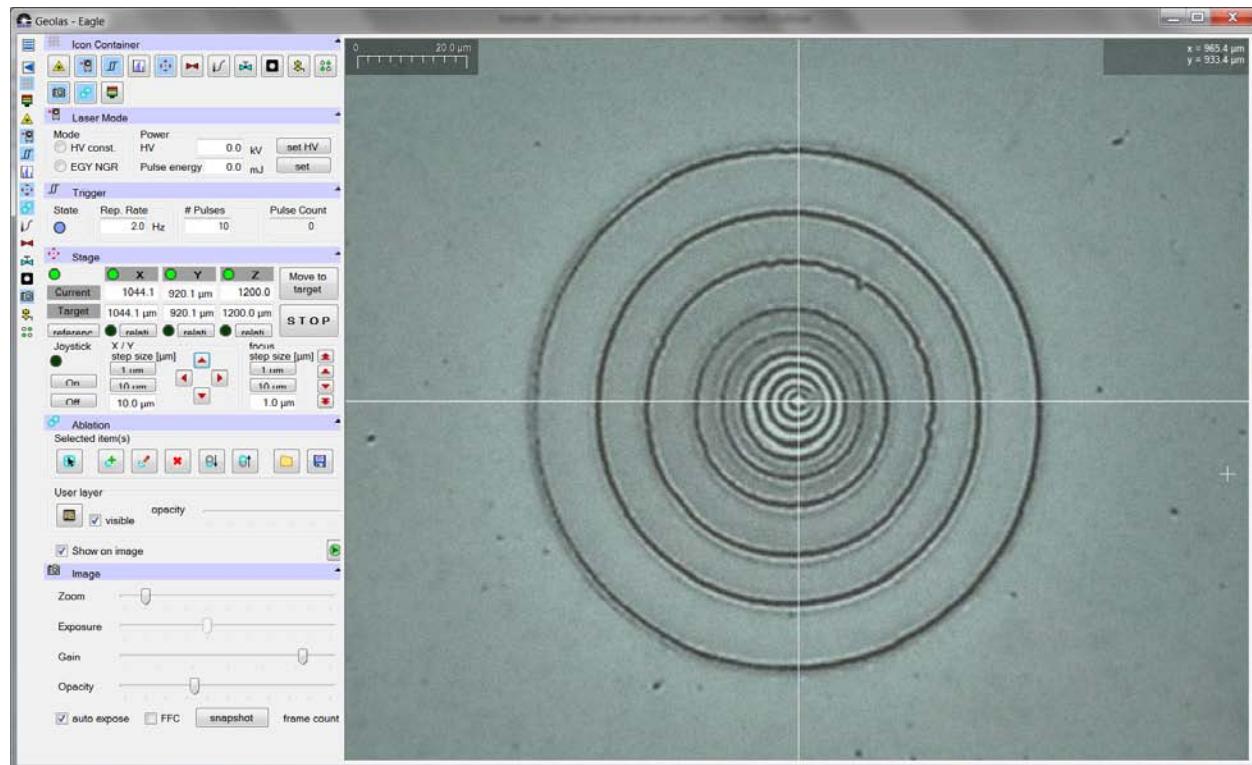
Superior Solid Sampling at 193 nm

## System Specifications

## GeoLasHD

Operating Wavelength (nm)	193
Spot Sizes ( $\mu\text{m}$ )	4 to 160
Optical Resolution ( $\mu\text{m}$ )	1
Beam Homogeneity (%) (1 sigma)	1
Maximum Fluence ( $\text{J}/\text{cm}^2$ )	50
Pulse Stability (%, rms)	2
Repetition Rate (Hz)	1 to 100
X,Y-Drive Min. Step Size ( $\mu\text{m}$ )	0.1
Z-Focus Min. Step Size ( $\mu\text{m}$ )	0.1
Dimensions (L x W x H)	2470 x 1142 x 1440 mm (97.24 x 44.96 x 56.69 in.)
Weight	395 kg (870.83 lbs.)
Mains Supply	110/230 VAC, 1 PN, 25/16A

## GeoLasHD Performance

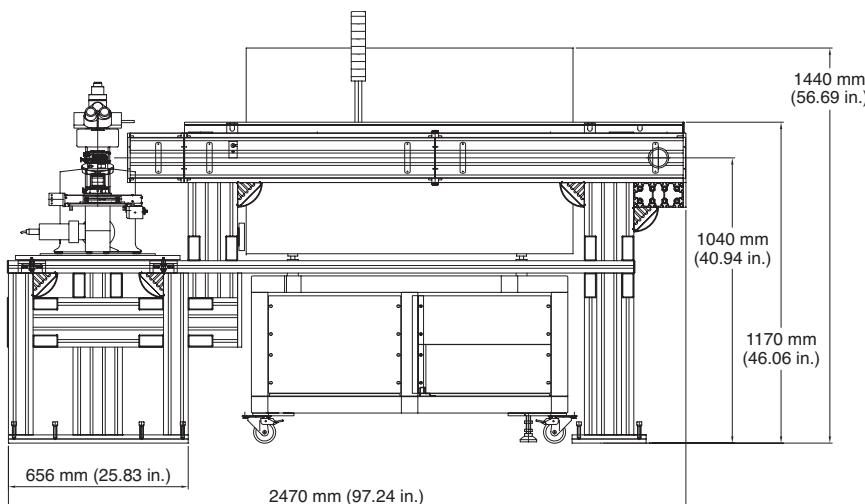


# GeoLasHD

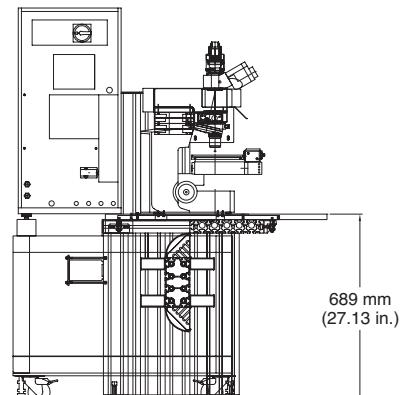
Superior Solid Sampling at 193 nm

## Mechanical Specifications

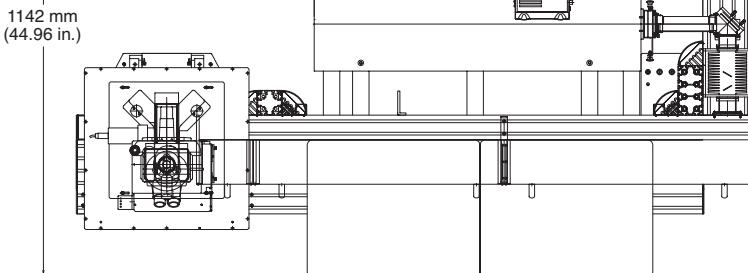
Front View



Side View



1192 mm (46.93 in.) 405 mm (15.94 in.)



Top View



[www.Cohere nt.com](http://www.Cohere nt.com)

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Coherent's scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976.

Coherent offers a limited warranty for all GeoLasHD systems. For full details of this warranty coverage, please refer to the Service section at [www.Cohere nt.com](http://www.Cohere nt.com) or contact your local Sales or Service Representative.

