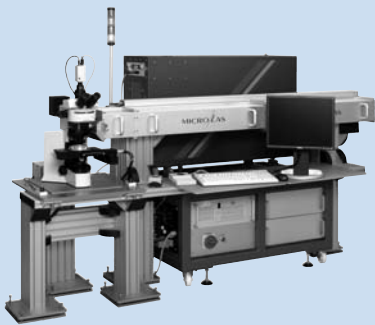


# GeoLas Pro

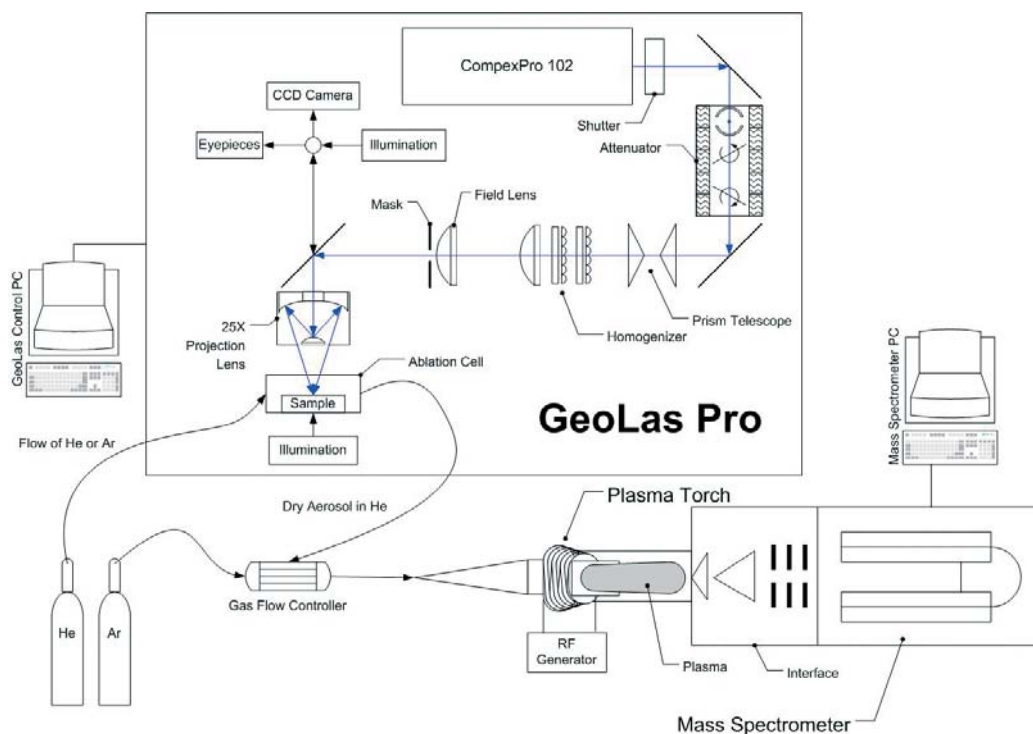
Automated or Manual High-End Deep-UV Optical System



## Features

- Superior sample observation
- Real petrographic microscope
- Customer-designed chambers
- Excellent day-to-day performance
- Sturdy design
- Purgable beam path
- Motorized high-resolution x-y-z-stage
- Dual-axis homogenizer
- Widest range of energy densities
- CE certified
- Manual and motorized versions

## Principle System Overview



**Superior Reliability & Performance**

# GeoLas™ Pro

## Automated or Manual High-End Deep-UV Optical System

### System Specifications

Operating Wavelength (nm)	193
Size on the Sample (µm)	4 to 160
Inhomogeneity (2 sigma)	<±3.5%
Max. Energy Density	Spot sizes 4 to 120 µm: 45J/cm <sup>2</sup> Spot sizes >120 to 160 µm: 35J/cm <sup>2</sup>
Range of Energy Density	<1J/cm <sup>2</sup> to 45J/cm <sup>2</sup>
Dimensions (L x W x H)	2560 x 970 x 1440 mm <sup>3</sup> (100.8 x 38.2 x 56.7 in.)
Weights (kg)	
Laser	250
GeoLas Pro System	450
Mains Supply	110/230 VAC, 1PN (single phase), 25/16 A

### Description

The GeoLas Pro, equipped with the COMPexPro™ excimer laser, is an automated, high-end, DUV-system for solid sampling – via Laser Ablation Inductively Coupled Plasma Mass Spectrometry (LA-ICP-MS) – for trace elemental analysis and medium-energy and high-energy, hard-material research.

The GeoLas Pro series is an advanced design that integrates the excimer laser, homogenized optical system, sample handling, visualization and control software into one workstation. The GeoLas workstation includes all required systems in a modular form, and comprises a real petrographic microscope for superior sample observation.

With several options offered, the GeoLas Pro can be configured to be a versatile and automated research tool.

### Options

- Upgrade to motorized attenuator
- Infrared optics set
- High-resolution observation (cameras + monitors)
- PLUS package (motorization, computer control)
- Class 1 housing

Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

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 GeoLas systems. For full details of this warranty coverage, please refer to the Service section at [www.Coherent.com](http://www.Coherent.com) or contact your local Sales or Service Representative.



[www.Coherent.com](http://www.Coherent.com)

#### Coherent, Inc.

5100 Patrick Henry Drive  
 Santa Clara, CA 95054  
 phone (800) 527-3786  
 (408) 764-4983  
 fax (800) 362-1170  
 (408) 988-6838  
 e-mail [tech.sales@Coherent.com](mailto:tech.sales@Coherent.com)

Benelux +31 (30) 280 6060  
 China +86 (10) 6280 0209  
 France +33 (0)1 6985 5145  
 Germany +49 (6071) 9680  
 Italy +39 (02) 34 530 214  
 Japan +81 (3) 5635 8700  
 UK +44 (1353) 658 833

