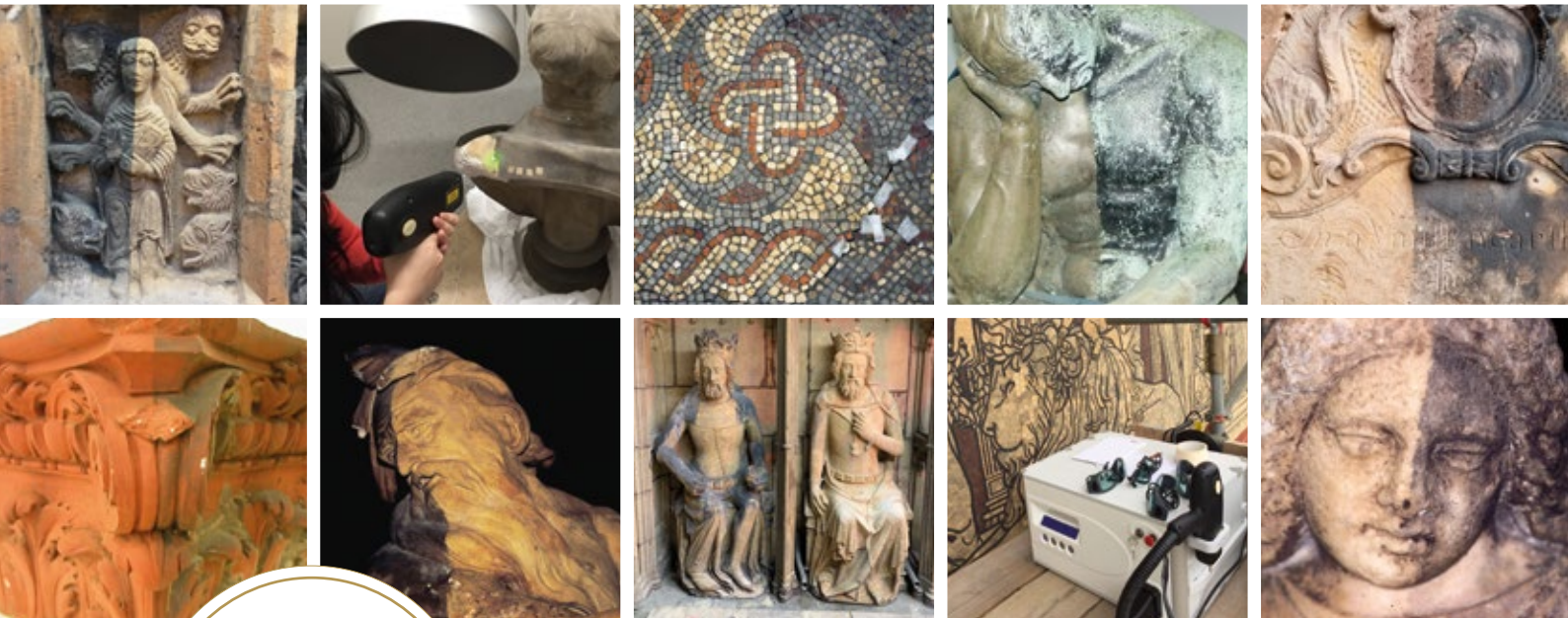


Laser cleaning expertise and  
quality design for conservation

# COMPACT PHOENIX™



EXPERTS IN  
CONSERVATION LASER  
TECHNOLOGY

since  
**1995**

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



Laser cleaning expertise and quality design for conservation

# COMPACT PHOENIX™

The Compact Phoenix™ is a highly versatile laser cleaning system and a valuable addition to the conservator's toolbox. It is a small, compact and rugged system ideally suited to work in a conservation studio or for small-scale site work.

## WELCOME TO LYNTON CONSERVATION

Welcome to one of the world's leading manufacturers of laser cleaning systems for conservation. Lynton Conservation, part of the highly successful Lynton Lasers Ltd., has been supplying laser cleaning systems to the conservation profession for over 25 years and has built up an impressive client list of museums and heritage organisations, universities and private conservation practices around the world.

Originating from the University of Manchester, Lynton is a world-leading, British-based manufacturer and supplier of conservation, surgical and aesthetic lasers. Set up in the early 1990s to develop laser systems for aesthetic applications, a chance meeting with conservators at the pioneering Conservation Centre, National Museums Liverpool, led to Lynton developing the first commercially available laser cleaning system for conservation in the United Kingdom. Since then, Lynton has continued to work closely with conservators to develop further generations of laser cleaning systems, the latest of which, the highly versatile Compact Phoenix™, breaks new ground in terms of portability, flexibility and price.

Our mission: To provide products and solutions to help preserve our cultural heritage and to positively impact our environment and society.

## LASER CLEANING

A laser is a unique source of energy, providing an intense, directional, pure form of light that delivers energy to a surface in a highly controllable manner. This special form of energy is absorbed strongly by pollution encrustations and many other types of dirt layers and unwanted surface contaminants, but tends to be reflected strongly from the surface of the artwork. This enables the conservator to gently remove unwanted material without damaging the surface of the artwork allowing patina, fine surface detail and tool markings to be preserved.

### LASER CLEANING IS:

- Selective
- Gentle
- Precise
- Clean
- Environmentally friendly



BEFORE



AFTER

Ancient Egyptian ushabti box; gesso on wood; Brooklyn Museum (United States).



BEFORE



AFTER

19th-century limestone relief panel; St. George's Hall, Liverpool (United Kingdom).



"City and Guilds Art School Conservation Department has been working with Lynton Lasers for over 15 years now. We can't praise enough the high quality, professional service that is tailored specifically to our needs....."

Conservation Department, City and Guilds of London Art School, United Kingdom.



## THE COMPACT PHOENIX™ LASER SYSTEM

The Compact Phoenix™ comprises a 'desktop' base unit (31cm x 54cm x 42cm; 30kg), which provides power and cooling (no special requirements), and a detachable laser handpiece. The system is unique in that it offers interchangeable NdYAG and ErYAG laser handpieces, extending the range of wavelengths available to the conservator – it is two lasers in one (handpieces can be purchased individually if preferred). The system is highly portable, easy to maintain and has been used by conservators worldwide to remove unwanted material from a wide range of objects, including marble, limestone, sandstone, alabaster, plaster, terracotta, ivory, wood and bronze, amongst others. The Compact Phoenix™ is available for purchase and rental.

## TRAINING

Lynton Conservation provides training in laser cleaning in conservation. Training is tailored to meet the needs of the conservator and is usually held at the customer's own site or another suitable location. Training is carried out by our staff who have over 25 years' experience in researching and working with lasers in conservation. Please contact us to discuss your requirements. Training is usually carried out over 1-2 days and includes:

- An introduction to lasers
- Laser safety
- Laser cleaning mechanisms
- Practical laser cleaning
- Test cleaning
- Record keeping
- Case studies

## COMPACT PHOENIX™ SPECIFICATIONS

### NdYAG handpiece

Wavelength: 1064nm, 532nm (optional attachment)  
 Pulse duration: 5ns  
 Pulse energy: 130/260/390mJ  
 Repetition rate: 1-30Hz  
 Beam diameter: variable from 1.5-15mm  
 Maximum average power: 4.5W

### ErYAG handpiece

Wavelength: 2940nm  
 Pulse duration: 10-150µs  
 Pulse energy: 0-300mJ  
 Repetition rate: 1-10Hz  
 Beam diameter: variable from 2-12mm  
 Maximum average power: 3W



Call Lynton today on +44 (0)1477 536977  
or visit [www.conservationlasers.com](http://www.conservationlasers.com)

For further information,  
please visit our website at:  
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The Lynton logo consists of a dark blue square with the word "Lynton" in white, lowercase, sans-serif font.

Lynton

[lynton.co.uk](http://lynton.co.uk)