

Laser Support Services

NEWS 2009

Company Update

Trading successfully since 1990 Laser Support Services has a proven track record selling both new and used lasers and associated products into the research, industrial and scientific markets. We are pleased to present our latest Newsletter which summarises just a small range of the areas we cover, from **mounts, positioners and apertures to DPSS laser systems**, from **safety eye wear to IR viewers**.

Inside, with cost efficiency a priority, we focus on **refurbished and used lasers** which may meet your application needs at a lower cost to your budget. With **warranties** and **service contracts** available we are confident our full range is tried, tested and trusted.

Please call 01333-311938 to discuss any requirements we can help you with from **laser safety to laser systems**. This Newsletter can only outline our services so please also visit the website, www.laser-support.co.uk for more information, or use the Faxback form to identify your requirements, as well as keep your details up to date. Catalogues are available on most products and can be sent out as requested on the Faxback.

We look forward to helping you to maximise your laser and equipment requirements within your own application at reasonable cost and with product quality assured.

Grahame Rogers

UAB STANDA

We are pleased to be able to offer the full range of **STANDA** diode pumped Nd:LSB pulsed micro lasers, with outputs at 1064, 1062.5, 532, 531, 354 and 265.5nm.

The range of lasers can be used in many applications including;

- Pump source for harmonic generators
- Low coherence "white light" spectroscopy
- Test and measurement systems
- Optical coherence tomography
- Two-photon microscopy
- Fluorescence microscopy
- Laser seeding
- OPO & OPA pumping
- Spectroscopy



- High peak powers
- < 0.4% pulse to pulse stability
- Variable or fixed repetition rates
- RS 232 interface
- Small compact package

UAB Standa continues to offer a full range of optical tables, optical mounts, positioning and motion control products.

To receive a 2009 catalogue please contact Jim Kiralfy on 01333-311938 or complete the enclosed Faxback form.

Contents

- Company Update
- UAB Standa
- ZC & R Optics
- Solar TII
- Electrooptic Viewers
- Sperian - Eyewear, Filters * NEW PRODUCTS!
- Kaluti SRL - DPSS * NEW PRODUCT!
- Del Mar - AFM Heron * NEW PRODUCT!
- National Aperture, Goniometer * NEW PRODUCT!
- **Refurbished Lasers For SALE & HIRE**
- **Repairs and Service - Lasers, Power supplies**
- **Argon Ion Repairs** with National Laser Company
- Complete Supplier List

ZC&R Optics

Since 1980, ZC&R has been providing the most reliable precision coatings available, for virtually every application imaginable. The products can be found being used in applications on the sea bed and in the farthest reaches of space, in some of the most demanding environments.

Our customers come from a wide range of industries including aerospace, defence, medical, entertainment, and telecommunications. ZC&R also provides coatings to a number of research laboratories and Universities

Solar TII

As a leading manufacturer of quality laser systems and spectrometers Solar TII offers a range of flashlamp-pumped Nd:YAG lasers. The Solar TII design is a modular approach to allow for the greatest flexibility in customer needs.

The addition of the new 50Hz system to the already well established 10 & 20Hz family of lasers is offered with outputs at 1064nm or doubled 532, tripled 355 and quadrupled 266nm.

Other lasers from Solar TII include a solid state Ti-Sapphire laser, OPO, COPO and Raman shifters allow for laser outputs from 189nm to 2030nm.

Solar TII also manufactures a comprehensive range of compact, cost effective monochromators, and spectrometers with focal lengths from 0.04 to 2metres.



IR Viewers from Electrooptic

Please contact us to discuss your requirements

Through Electrooptic we can offer a well specified range of **IR viewers, cameras and accessories** representing excellent value for money. The **Abris UV/IR** viewer is capable of observing radiation in both the UV and IR spectrums, so the same viewer can be used for viewing and aligning both Excimer and Nd:YAG lasers; distinct applications such as *UV lithography and IR spectroscopy* can be handled by a single device.

The rest of the low cost Electrooptic range includes the **Abris M** series (1300nm through to 2000nm) the industry standard, and the **SM-3R** range for applications that require the same spectral response in a more compact package.

* NEW PRODUCTS * NEW PRODUCTS * NEW PRODUCTS * NEW PRODUCTS *

Available through Laser Support Services - Sperian Protection products

New to the market, the **Sperian Milan frame** provides protection in a stylish, adaptable package. The lightweight frame, with adjustable nose bridge and flexible temples, offers unparalleled comfort. Anti-scratch and anti-fog coatings ensure excellent vision and it is available with most of Sperian's High Transmission filters (CO₂, Nd:Yag, Harmonics, Alexandrite, YAG and IPL Light Green shade)



Alignment filters - For those who need to align laser beams in the course of their work, **Filter 155 is an Nd:YAG filter** providing protection up to 1000 W/cm² or 5 J/cm² at 1064nm combined with alignment protection up to 1W at 532nm. Now align the second harmonic whilst being protected against the first harmonic too! Available in the stylish XC frame style offering the EN 207 protection levels DL6 + IR L7 at 1064nm, and the EN 208 protection level R3 at 532nm. This is achieved with a visible luminous transmission of 40%.

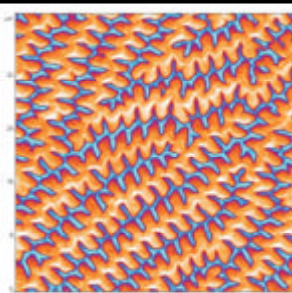
And **Filter 135**, protects during alignment in the 625-680nm wavelength range. Now available in the LGF Full View frame style, this one lens covers virtually all the most popular red diodes on the market today. **Filter 135** offers the protection level 625-680 R1 according to EN208, which means it is suitable for use up to 10mW, all whilst maintaining a visible luminous transmission of 52%.

Contact us or visit www.laser-support.co.uk for more information

NEW ! 10W DPSS laser from Kaluti SRL

New from Kaluti System SRL, a **DPSS laser** with a **10Watt** output at 532nm, this cost competitive European manufactured laser is a must for all laboratory and commercial situations that require a high power **monochromatic light source**. The latest design adds to the family of continuous wave and pulsed lasers from this dynamic manufacturer. Kaluti now offer lasers in the power range **20 to 170 Watts** at 1064nm, 5 & 10 Watts at 532nm 3 to 8 Watts at 355nm and 1 to 3 Watts at 266nm.

These lasers are ideal for a host of different applications including as a pump source for OPO or Ti:Sapphire lasers, micro machining, marking, surface treatment, rapid prototyping, a range of medical applications and entertainment



Del Mar Photonics are pleased to announce the release of their **AFM Heron Scanning Probe Microscope**.

This fully automated system will remove the necessary and arduous alignments and re-alignments required in similar systems available today.

The picture shows the clarity of the magnetic structure of surface domains in Yttrium Iron Garnet (YIG) film, using the **AFM Heron**.

This new fully motorised instrument allows for the perfect alignment of the cantilever, laser and detector at the flick of a switch. The automated scanning and landing parameters allow for more time undertaking experiments as less time is spent handling adjustments.

Call 01333-311938 now for more details and a quotation

Launch of Goniometer from National Aperture

This new and exciting product from **National Aperture** gives you the freedom to make precise and accurate angular measurements more easily than ever before. Available in both manual or motorised packages the goniometer can be part of an automated measurement tool ; in single or multiple axis even the most complex measurements or movements become routine.



The motorised goniometer uses 64:1 gearhead, 80 TPI lead screw and complimented by a 50 turns per inch encoder.

This revolutionary device can be used with any of the National Aperture manual or computer controlled DC servos.

Contact Grahame Rogers on 01333-311938 for more details.



Refurbished Used lasers for Sale or Hire

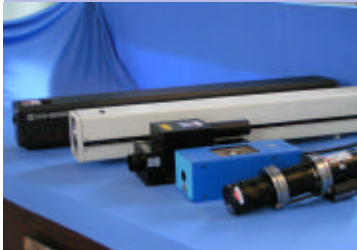
Never considered buying a used laser? Think again!

Is your research grinding to a halt because your laser is dead or do you have to beg steal or borrow a light source just for a few weeks to get by?! Or even worse, perhaps due to the recent fluctuations in currency exchanges or the downturn in the global economy, your grant or budget no longer covers your capital costs or requirements. Maybe we can help....



A **Stock** of second hand gas lasers is held at Laser Support Services ranging from **helium neon** to large frame **argon ion** lasers giving powers in excess of 18 Watts. Some can be bought as seen without warranty, or we are able to offer a warranty on either the plasma tube or the complete system. We can in some cases offer a brand new plasma tube from the manufacturer of the laser or alternatively reliable and cost effective refurbished tubes are available for many systems

Or never thought to Hire? If you don't wish to purchase but still need a laser we also have a stock of lasers which are available for short term hire, which can be delivered within a few working days. Recent successes include getting a short term PhD project back on track within two days - all part of the service! Just call to discuss your requirements - hire periods available for one day or more!



Check your details and stay informed!

Please use the fax back form enclosed to check that your details are up to date and accurate. If you would like further information on any of the product lines and services please indicate this on the Faxback and we will respond as soon as we can via your preferred method of contact.



Need a repair or service to a power supply or laser?

At Laser Support Services we have the capability to carry out **repairs** on all ion lasers manufactured by **Coherent, Spectra Physics, Lexel Laser, JDS Uniphase** or **Melles Griot**. We can offer new and refurbished plasma tubes from a selection of quality manufacturers, and in some cases from the original manufacturer, giving you the best possible range of opportunities to keep your laser working reliably and to specification. Apart from being a passion of ours, in our view a laser is never junk, just temporarily indisposed and waiting for the right care and attention. **Call us now and let us quote for bringing your photons back to life!**

We only offer a repair which will bring back the original manufacturers specification for you, nothing less, and more than likely at a fraction of the cost. **Call us now** or keep this article handy in case you need repairs - and make the most of what we can offer you and your budget.

Equipment may be repaired on site or in-house according to requirement.

AIR-COOLED ARGON ION PLASMA TUBES

In conjunction with **National Laser Company**, we can offer new plasma tubes to repair your air-cooled argon ion lasers.

We can repair any air cooled laser made by;

- National Laser Company
- JDS Uniphase
- Spectra Physics
- LASOS
- Melles Griot

Or in all (but not only!) these instruments out in the field

- Applied Biosystems
- Becton Dickinson
- Beckman Coulter
- Abbot
- KLA Tencor
- Thermawave
- Applied Materials
- Kodak
- IBM
- Xerox
- AGFA
- Crossfield
- OCE

CALL US FOR ADVICE ON WHETHER WE CAN HELP KEEP YOUR INSTRUMENT IN SERVICE FOR LONGER - 01333-311938

Complete Supplier list

*We are proud to represent the following quality manufacturers from lasers to eyewear, apertures to positioners. If you know of anyone in your establishment who may be interested in any of our products, please pass this Newsletter on or request an additional few copies. Our **safety eyewear and patient equipment** will also feature in a future issue designed for the medical and clinic market, but if you would like to receive that supplement, please ask!*

A full range of products are available through Laser Support Services from the following global suppliers



Cambridge Lasers Laboratories -
New and remanufactured laser systems



Del Mar Photonics— Ultrafast lasers, oscillators and amplifiers, femtosecond lasers systems and a variety of measurement tools



Electrooptic - Ultraviolet to infrared viewers and infrared cameras and accessories



Kaluti System SRL - CW and pulsed diode pumped lasers for research and industrial applications.



Laser Innovations— Remanufacturer of Coherent plasma tubes, with “as new” specifications



Lexel Lasers Quality argon and krypton ion lasers, with second harmonic generation



National Aperture - Precision micro apertures, miniature translation stages and motion control products



National Laser Company - Argon laser systems, replacement plasma tubes for biotech, image recording and inspection



Oculo-Plastik - Stainless steel patient shields and instruments for safe use during laser and IPL medical procedures



Solar TII - Monochromators, Spectrographs, as well as CW and pulsed solid state lasers



Spierian - Quality safety eyewear for laser and IPL. Formerly GPT Glendale



STANDA - Optical mounts, positioners, linear and rotary translation stages, optical tables and motion control



ZC & R - Precision coatings for optics including unique custom designed filters and coatings in quantities large or small

ONE SOURCE, MANY SOLUTIONS

We can access many other manufacturers of lasers, optics and associated equipment to suit your individual application. Customised and individual quotations can be provided with no obligation.

Compare our service as well as our prices!

If you would like to find out more about any of our products and services, please complete the enclosed Faxback form to request additional information. Alternatively phone us on the number below or contact us through our website www.laser-support.co.uk