

LASERMET LTD

LASER SAFETY SOLUTIONS

Laser Safety Solutions



Are you manufacturing Laser or LED products?



Laser Range Meter.
Picture courtesy of MDL.

Confused about safety compliance? . . Relax – we can help.

If you are manufacturing products incorporating lasers or high power LEDs you may find yourself confused or bogged down trying to understand the relevant safety standards (IEC / EN 60825-1, IEC / EN 60825-2, IEC / EN 60825-12, USA 21 CFR 1040.10, FDA laser notice 50 etc), or you may simply want external test house verification of your conclusions. We can help. As the UK's leading test house for laser and LED products, we are able to offer expert test and certification services carried out by specialists in this field.

If you are intending to sell your laser product in the USA it must by law be registered with the FDA, a process which is both complicated and time consuming. Our FDA registration service will save you much time and get your product registered quickly. We will also advise you along the way of any requirements for your product.

For those who have conventional light sources requiring safety assessment we will test your product to the most recent accepted standards (ICNIRP and ACGIH).

Four Key Services from Lasermet

▼ Laser and LED Product Testing

- ▼ Test and certification of your products against standards currently in force

▼ FDA Registration

- ▼ The first step to exporting your products to the USA

▼ Consultancy

- ▼ Ensure your product is developed in accordance with the safety standards

▼ Conventional Light Source Safety Assessment

- ▼ Testing of conventional light sources against appropriate safety criteria

Test and Certification of Laser and LED Products

We test and certify all types of laser and LED products to the following standards:

European	International	USA
EN 60825-1	IEC 60825-1	21CFR 1040.10
EN 60825-2	IEC 60825-2	
EN 60825-12	IEC 60825-12	

All our measurements are traceable to NPL standards. Testing is normally carried out at our premises, although on-site inspections can be carried out where necessary.

We test both prototype and completed products to the appropriate standard(s) and provide you with a full test report including details of:

- ▼ Measurement test results
- ▼ Accessible emission limits
- ▼ Required engineering controls
- ▼ Required labelling
- ▼ Required information for user manuals or product brochures
- ▼ Failure modes of drive electronics and other reasonably foreseeable failures affecting safety.

FDA Registration

To legally enter the USA, all laser products* must be registered with the FDA and granted an accession number. This is a very time-consuming process, especially for the uninitiated.

Lasermet's fast, cost-effective service is designed to save your company many hours of work and free up

your engineers and R&D staff for more productive and enjoyable work.

FDA Registration Service Available Worldwide.

When carrying out this service we do not need to see the product; communication between our consultants and your company is carried out primarily by email with some telephone contact if necessary.

Consequently, we are able to offer this service to manufacturers anywhere in the world.

**LED products are not affected.*

Consultancy

To avoid developing a product which fails to achieve its desired laser classification under testing, we recommend that you get us involved at an early design stage to ensure that the product is developed with the laser/LED safety standards in mind. We can advise on the best likely classification for your product and maximum emission allowed within this classification.

Because our consultants and test engineers have an in-depth knowledge of the subject, we are able to offer the best possible advice, thus helping you avoid potential costly problems in the latter stages of development.

Conventional Light Source Safety Assessment

UV light sources present a skin cancer hazard, IR sources can cause cataract and bright visible sources can also present a hazard to the eye.

The safety of conventional light sources has been largely overlooked in the past, but there is growing concern that such sources may be hazardous and a movement to ensure that they are assessed in a similar way to laser and LED sources.

We are able to test these light sources to the latest applicable standards (currently ICNIRP and ACGIH standards) and advise on current and possible future developments in their safety assessment.

About Lasermet

Lasermet offers unparalleled experience and expertise in laser safety in the UK, Europe and beyond. Our services for advice, training, laser and LED system testing, risk assessment and FDA registration are used by a large number of blue chip companies as well as small and medium sized businesses.

Drawing upon the 40 years' experience of the subject of MD and founder Prof Bryan Tozer, long time Chairman of the UK and European Laser Safety Standard Committee, Lasermet has built itself up as the leading UK test house for EN 60825-1 and the leading European laser safety company.

67 Portchester Road
Bournemouth
BH8 8JX United Kingdom
Tel: 01202 770740
Fax: 01202 770730
e-mail: sales@lasermet.com
Website: www.lasermet.com

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