



LASERLYTE Flex Alignment System

Features

Plug and play system

Available in red outputs

Wide range of interchangeable projections including

- Dot
- Short Line
- Long Line
- Small Cross
- Large Cross
- Long Line + Dot

User adjustable focus control

110/240 Vac & 12/24 Vdc powered

Wide range of mounting options and accessories

No technical laser experience required

Compact size (11mm Diameter)

Applications

Garment manufacturing

Screen printing

Tyre manufacturing

Saw cutting

Fabric cutting

Patient positioning

Rotary press alignment

Glass cutting and drill positioning

Graphics alignment



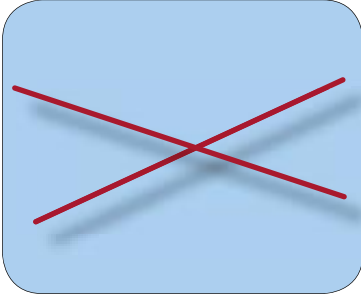
The Laserlyte-Flex alignment system is a unique, interchangeable, low cost plug and play laser system that was designed specifically for aligning and positioning of garments, cloth, paper, wood and metal.

The system has a range of interchangeable projections which convert the base dot laser into a line or cross.

A range of intensities are available in order to maximise the visual appearance of the projection even against the darkest materials. The Laserlyte-Flex has a user adjustable focus making it easy to focus over a wide range of distances. Complete with mounting brackets, electrical leads and power supply the system is ready to use with no previous laser experience required.



THE LASERLYTE-FLEX ALIGNMENT SYSTEMS FEATURES



BRIGHTNESS

The Laserlyte-Flex alignment system is available with a power of 5 mW at 650 nm (red) and also a more visually intense 635 nm (red).



ADJUSTABLE FOCUS CONTROL

The Laserlyte-Flex system has an adjustable focus control which allows the user to focus the laser at any required distance. A focus key is supplied to enable this.



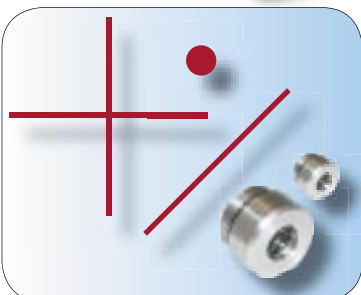
PLUG AND PLAY SYSTEM

The Laserlyte-Flex system has been designed so that the user can operate the system efficiently and effectively via simple DC connector jack plugs.



UNIVERSAL POWER SUPPLY

The Laserlyte-Flex system has been designed to work with its own universal power supply which runs on 110 - 240 Vac. The power supply is available as either a 1 outlet unit to power one laser (PS-1) or as a 4 outlet version which can power up to four lasers (PS-4). A 12/24 Vdc power adaptor is also available that allows the Laserlyte-Flex to be run directly from a machine power source.



INTERCHANGEABLE PROJECTIONS



















The Laserlyte-Flex laser has a range of interchangeable lenses that can produce a dot, line or cross projection. The projections are simply interchangeable by screwing on and off the appropriate projection holder on the front of the laser.




MOUNTING

The Laserlyte-Flex system is available with an optional ball joint mount or a heavy duty mount which allows the lasers to be securely fixed at any required direction or angle. The heavy duty mount also has an optional magnetic base.

MODEL MATRIX AND PROJECTION OPTIONS

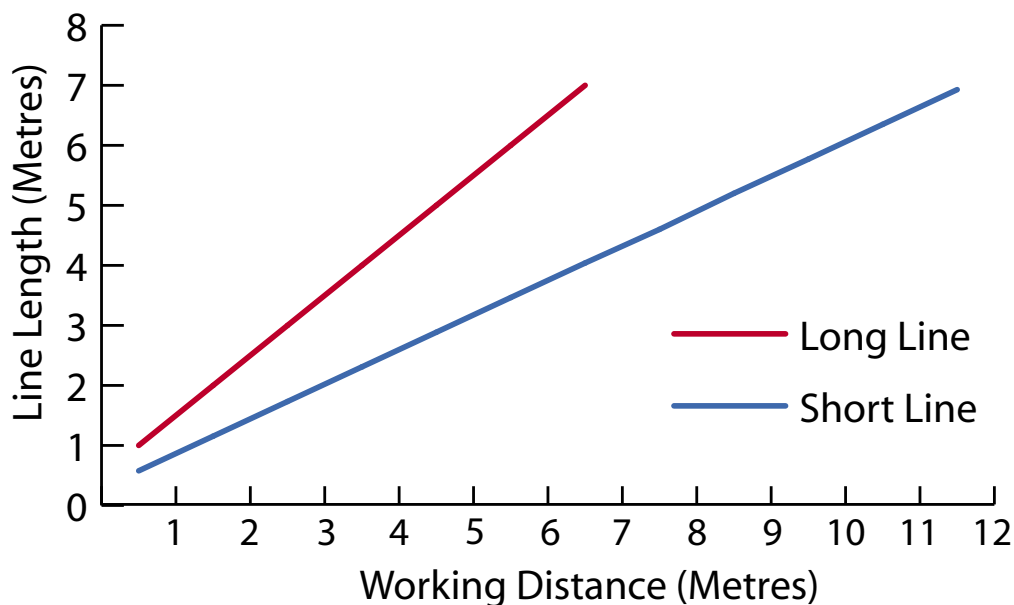
						
	Dot	Short Line Fan Angle: 60°	Long Line Fan Angle: 90°	Small Cross Fan Angle: 8°	Large Cross Lines Fan Angle: 60°	Long Line + Dot Fan Angle: 100°
Standard Power Red <i>650nm 5mW</i>						
Bright Power Red <i>635nm 5mW</i>						

KEY:

 These units project a red output

LINE LENGTH TABLE

The graph below shows the typical line length achieved at a range of working distances for both the small and long line laser.



LASERLYTE-FLEX APPLICATIONS

The Laserlyte-Flex alignment system has many applications some of which are below. If you would like to know further information about any other applications please either contact your local distributor or contact Global Laser.



EDGE ALIGNMENT

For edging alignment and positioning of material on floatation tables



MATERIAL POSITIONING

For positioning of materials during sewing, pressing or heat sealing of motifs or embroidery.



MACHINE ALIGNMENT

On snap, or rivet machines



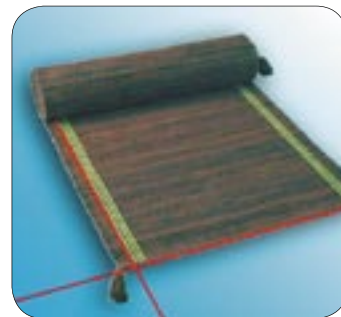
CUTTING GUIDANCE

Saw blade or guillotine guidance



SCREEN PRINTING

On RF heat sealing & screen printing equipment



PATTERN ALIGNMENT

For pattern matching, material inspection and fabric spreading




LASERLYTE-FLEX ACCESSORIES

When ordering the Laserlyte-Flex system the following accessories are included:



1 off Laser and 1 off focus key. Please note you will need to purchase either a PS-1 (1 way), PS-4 (4 way) or (1 way) 12 / 24Vdc power supply unit separately.

In addition to the above, the following Laserlyte-Flex accessories can be purchased to complement the range.

Mounting Accessories

Heavy duty mounting clamp with optional Magnetic mount	<p>Heavy duty mounting clamp allows the Laserlyte-Flex alignment system to be securely fixed at any required direction or angle. The base plate has a series of threaded holes which allows the clamp to be fixed directly onto a machine or workbench.</p> <p>The magnetic mount allows the heavy duty mounting clamp to be magnetically attached to a ferrous surface.</p>	
MK1 Ball joint mount	<p>This mount holds the laser module in a clamp which rotates on a ball headed rod of 2.3/8ins.(60mm) length. A second clamp allows the rod to slide to different positions and to be fixed to any surface using the screws provided</p>	
Brackets	<p>Brackets are available with holes at regular Intervals. B12 - 30cm/12" B6 - 15cm/6" B4 - 10cm/4" B2 - right angled 10cm/4" BS - one of each</p>	

Electrical Options

Power Supplies	<p>PS-1 for 1 laser (110/240 Vac) PS-4 for up to 4 lasers (110/240 Vac) 12/24 Vdc for 1 laser (12/24 Vdc)</p> <p>The PS-1 & PS-4 power supplies comply with the legal requirements of LED on/off indicator. Both are fully Radio and High Frequency protected as is the rest of the system.</p>	
Extension Power Leads	<p>Extension Power leads are available in the following lengths: 1.5m, 3m, 5m, 10m</p>	

TECHNICAL INFORMATION

MECHANICAL SPECIFICATIONS

Dimensions	11 mm dia x 37 mm (without line optic) 11 mm dia x 42 mm (with line / cross optics)
Housing	Black anodized aluminium
Isolated body	Yes

OPTICAL SPECIFICATIONS

Diode power	5 mW
Wavelength	635 - 650 nm *
Intensity distribution	Gaussian
Focus range	6 mm to infinity
Delivery Set Focus	300 mm (user adjustable)

ENVIRONMENTAL SPECIFICATIONS

Operating case temperature	5°C to +45°C
Storage temp	-10°C to +85°C
Operating humidity (%RH)	90
MTTF at 25°C	> 25,000 hours

ELECTRICAL SPECIFICATIONS

Cable Length	1.5 metres
Connector type	DC jack
Reverse - polarity protection	Yes

* = *Varies with model*

Specifications are typical at 25°C unless otherwise stated

LASER SAFETY

Our lasers are compliant to IEC 60825-1 standards. The lasers fall within one of the following classifications depending on power, wavelength and fan angle. The labels supplied with the units are shown below.



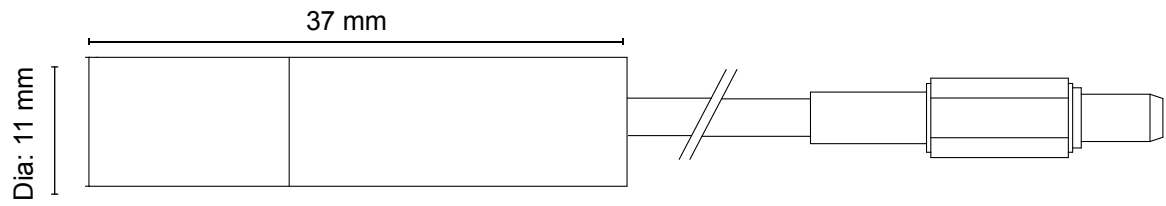
Class 3R Laser Label

QUALITY & WARRANTY

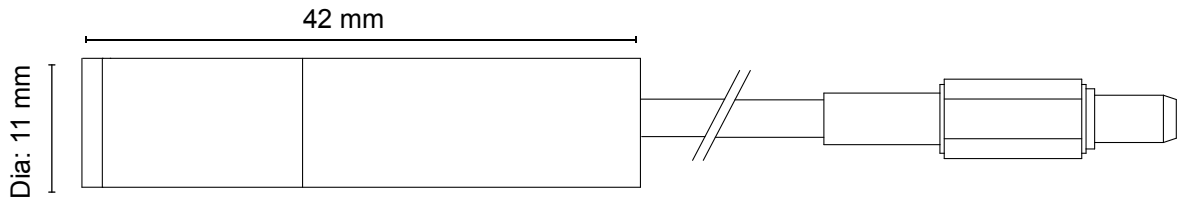
The Laserlyte-Flex is supplied with a 12 month parts and labour warranty. Our manufacturing operations are certified to ISO9001.



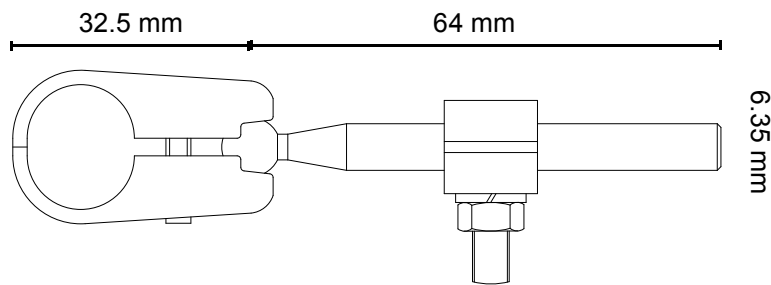
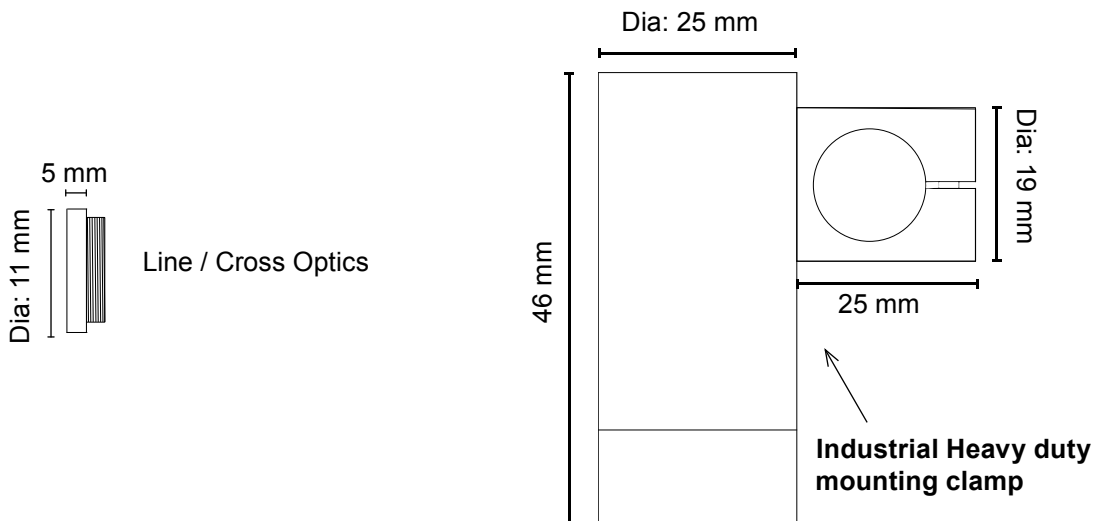
DIMENSIONS



Without line / cross optics



With line / cross optics



MK1 - Mounting kit

Please note: Global Laser reserve the right to change descriptions and specifications without notice

SUMMARY OF FEATURES & BENEFITS.

- Wide range of interchangeable optics to convert laser from dot to line or cross
- Cost effective reliable laser system
- Transformers - 110 / 240 Vac mains power transformer or 12 / 24 Vdc machine power transformer.
- Small size - Very compact 11 mm diameter laser which takes up minimal space and is easily clamped with a range of mounting accessories.
- User adjustable focus - You can focus the laser to any desired distance while using it in your application.
- Plug and play system - The Laserlyte-Flex system has been designed so that the user can operate the system efficiently and effectively via simple DC connector jack plugs.



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For further information about the Laserlyte-Flex you can contact your local distributor or you can contact Global Laser in the UK.

Your Local Distributor Is: