

Imatronic User Guide



1. PRODUCT OVERVIEW

Thank you for purchasing an Imatronic laser. These lasers emit a red / infrared line / spot / dot, depending on the model you have purchased. You will have one of the following models:

- LDM115
- LDL175
- LCG115
- LLM115
- LDM150
- Sigma

If you have any problems or require help when using the Imatronic range of lasers please call us on +44 (0)1495 212213 or contact your local representative.

2. PRODUCT OPERATION

2A. ALL MODELS EXCEPT LDL175

To operate laser in CW mode the Red and Black flying leads should be connected to the following (see table below)

	LDM115	LCG115	LLM115	LDM150	Sigma
Red Lead (Vdc)	+3.5 to +5	+3.5 to +5	+3.5 to +5	+3.5 to +5	+3.5 to +5
Black Lead (Vdc)	0	0	0	0	0

2B. LDL175 MODEL

- Using with PS-1

If you have purchased this model with the mains power adaptor (PS-1) connect the DC power jack to the back of the laser and turn on the mains supply.

- Using with flying leads

To power the LDL175 via a low voltage supply please connect the as per the pin configuration below:

	LDL175
Inner Pin	+3.5 to +5Vdc
Outer Pin	0Vdc



3. FOCUS ADJUSTMENT (ALL MODELS)

The focus of the laser can be adjusted by using the supplied focus key (as shown in diagram F). Should you need to adjust the focus please follow the simple instructions below:

1. If supplied with the LCG115 or LLM115 remove the line or cross optics with the focus key
2. Insert focus key into laser barrel and align with focus control grooves
3. Turn until desired focus is achieved
4. Replace front line or cross lens (LCG115 & LLM115 models)



4. CLEANING THE OPTICS

If the laser pattern becomes fuzzy or unclear, please check the following:

1. Check the laser is in focus (see section 3)
2. Verify the optical lens is clean, if the area has been contaminated please remove dirt with dry air.

5. MOUNTING

It is recommended to ensure longer life and stability of the laser, the product is mounted in a suitable heatsink.

6. SAFETY AND CLASSIFICATION

These modules are intended for incorporation into customer equipment. They are classified in accordance with IEC60825-1 Amendment 2/2001, which should be consulted prior to designing or using any laser product. The following labels are supplied for attachment to the customer's equipment, but responsibility for compliance with the standard remains with the user.



OEM Laser Label



Class 2M Laser Label



Class 3R Laser Label

IEC 60825 Warning Labels (examples)

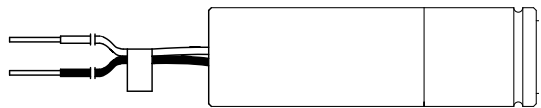
7. PRODUCT WARRANTY AND REPAIR

If your product develops a fault within 12 months from the date of purchase Global Laser will repair / replace the product. If you wish to return a faulty product contact your local representative or Global Laser to obtain a RMA (Return Material Authorisation code) and return to the address below:

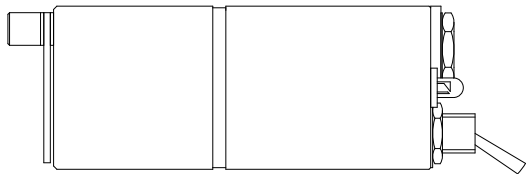


Technology Center, Cwmtillery Industrial Estate, Abertillery Gwent. NP13 1LZ
T: +44 (0)1495 212213 F: +44 (0)1495 214004
E: sales@globallasertech.com W: www.globallasertech.com

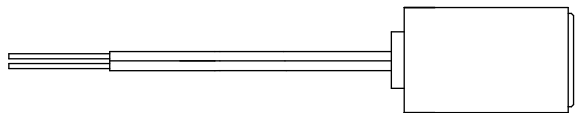
8. DIAGRAMS



LDM115 Laser (A)



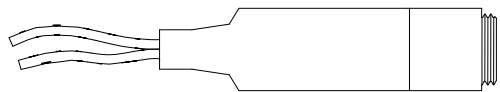
LDM175 Laser (B)



Sigma (C)



LLM115 & LCG115 (D)



LDM150 (E)



Focus Key (F)



NOTES