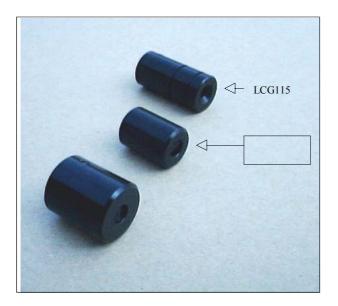
# **j**MATRONIC

## Laser Line and Cross Generators LG0115, LG0145 and LCG115



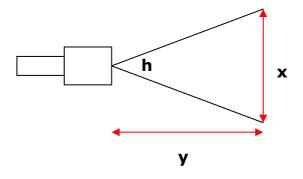
The LGO115 and LGO145 series of Line Generator Optics are specifically designed for use with the Miniature (LDM115) and Compact (LDM145) range of Imatronic Laser Diode Modules respectively.

The Line Generators simply slip over the end of the appropriate Laser Diode Module and are secured in place by tightening a small locking screw. The focus position of the line is adjusted by rotating the lens on the Laser Diode Module prior to the installation of the Line Generator Optic to give a highly defined thin line of laser light.

The LCG115 is also a plug-on accessory which, when fitted to the front of a pre-focussed Miniature (LDM115) Laser Diode Module emits a highly defined cross of laser light. The LCG is installed and secured in the same way as the LGOs.

#### **Applications**

- Alignment and Positioning
- Edge Detection
- Pattern Recognition
- Medical Alignment Systems
- Light Barriers
- Robotic Control
- Process Control
- Seam Tracking



Line Length x = 2ytan(h/2)

h = fan angle y = distance from lens

Laser Line Generator Specifications	LG0115	LG0145
Fan Angle (degrees)	15, 28, 40, 60 and 120	15, 28, 40, 60 and 120
Operational Wavelength (nm)	630 to 830	630 to 830
Typical Line Width at 1 metre	0.75	0.75
Length (mm)	24	26
Diameter (mm)	17	22
Mass (mm)	10	16.5
Length with Relevant LDM	51	60
Diameter with Relevant LDM	17	22
Mass with Relevant LDM (mm)	19.5	38.5

LCG115	
50 x 1	
160 x 1.5	
380 x 2	
630 to 830	
35	
17	
15	
60	
17	
46	

Typical values quoted unless otherwise stated. Imatronic reserves the right to modify specifications without notice.

	LGO115 or LCG115 can be used with	LGO145 can be used with	
	Miniature	Compact	Modulatable Compact
MaxiBrite	LDM115P or G/633/x	LDM145P or G/633/x	LDM146P or G/633/x
HiBrite	LDM115P or G/650/x	LDM145P or G/650/x	LDM146P or G/650/x
MediBrite	LDM115P or G/670/x	LDM145P or G/670/x	LDM146P or G/670/x
VisiLite	LDM115P or G/780/x	LDM145P or G/780/x	LDM146P or G/780/x
DarkLite	LDM115P or G/830/x	LDM145P or G/830/x	LDM146P or G/830/x

Standard output powers x = 1, 3 or 5mW. Higher powers available upon request.

For pricing or further information please contact your local distributor.

**Otherwise contact Imatronic directly on:** Telephone +44 (0)1495 212213 Fax: +44 (0)1495 214004 Email: websales@imatronic.com

#### **Other Products & Services**

- Laser Diode Modules
- Distance Measurement
- Velocity Measurement
- Applications Consultancy Product and Technical
- DevelopmentLenses and Mirrors
- Bespoke Scanning Systems

<u>Distributor</u>

### CONTACT IMATRONIC DIRECTLY

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