

# LightScribe



## Laser marking & engraving made simple and affordable

Thinklaser bring to the world's industrial marketplace a comprehensive range of "Plug & Process" laser marking and engraving products, systems and solutions. From setup, through usage to after sales support you will find that we do things a little bit differently at thinklaser.

One of the most compact, yet versatile, laser marking products available today the LightScribe comprises a fully integrated marking head, Class 1 worksite safety enclosure for a true Table Top solution.

The system can be configured with a selection of laser sources in order to optimise the material application and production needs. Offering a true "Plug & Process" marking solution.

The unit operates from a single-phase electrical supply & has no water cooling requirements.

A comprehensive graphical interface is included that allows you to create "job files" suitable to your marking requirements. The operational graphical interface makes editing menus intuitive and easy to use. Familiar pull-down menus allow you to edit a wide variety of functions, select text with true type or single stroke fonts, enter or select logos, graphics, barcodes and 2D matrix codes.



# LightScribe

## Technical Information

If any of this information is unclear please contact technical support at Thinklaser who will be happy to answer any questions you may have.

Also included

- 12 months warranty
- Free delivery to UK mainland Site
- Lens Cleaning Kit

## Machine configuration & key feature information.



MODEL NUMBER	LIGHTSCRIBE			
NOMINAL AVERAGE LASER POWER	20 Watts <sup>1</sup> , 30 Watts <sup>2</sup> , 50 Watts <sup>3</sup> , 60 Watts <sup>4</sup>			
LASER TYPE	Pulsed Fibre <sup>1,2,3</sup>	Mopa M1±S <sup>1,2,4</sup>	Mopa M6±S <sup>1,2,4</sup>	Mopa M6 ±L <sup>1,2,4</sup>
WAVELENGTH	1064 ± 4 nm			
POLARISATION	Random			
M2 BEAM QUALITY	<1.8	<1.3	<1.3	<1.8
SINGLE PULSE ENERGY (mJ)	1@20kHz <sup>1</sup> 1@30KHz <sup>2</sup>	0.5 <sup>1,2</sup>	0.5	0.97
POWER SUPPLY	220V/60Hz/8A (110V/60Hz/15A optional)			
MARKING AREA	110x110mm			
OPTICAL ISOLATOR	YES			
SPEED MARKING	<2000 mm/s			
DEPTH OF ENGRAVING	≤ 0.1 mm / pass			
POWER ADJUSTMENT RANGE	10~100%	1~100%	1~100%	1~100%
PULSE REPITATION RATE (kHz)	20~60 <sup>1</sup> /30~60 <sup>2</sup>	1~1000	1~2000	1~2000
PULSE DURATION (ns)	<120	6~250	2~250	2~250
COOLING	Forced Air Cooled			
OPERATING TEMPERATURE	0~40C°			
WORKING HUMIDITY	≤ 80%			
MIN. LINE WIDTH	0.05mm			
REPEAT ACCURACY	0.003mm			
Z-AXIS TRAVEL	130mm (195~325mm from reference surface)			
MACHINE DIMENSIONS (LXWXH)	800x430x755mm			
CRATE DIMENSIONS (LXWXH)	970x530x910mm / 92KG			
LASER CLASSIFICATION	Class 2 (Red Dot Diode for Focus)			
OPTICAL SYSTEM	Scan head			
POSITIONING SYSTEM	Red Focus Beam			
OPERATING SYSTEM	Microsoft Windows system Win7, Win8, Win10.			
SOFTWARE SUPPLIED	EZCAD2			
COMPATIBLE SOFTWARE	CorelDraw, Photoshop, AutoCAD			
SUPPORTED FILE FORMATS	Vector: PLT, DXF, SVG, DST, Ai, JPC, NC, BOT, GBR, G Image: BMP, JPG, GIF, TGA, JPEG, PNG, TIF, TIFF			
OPTIONAL ITEMS	Fume Extraction: Purex Fume Cube Max F-Theta lens with working area 50*50, 150*150, 175*175, 200*200 (mm) Rotary Device (Limits working area to 150*150mm)			

