

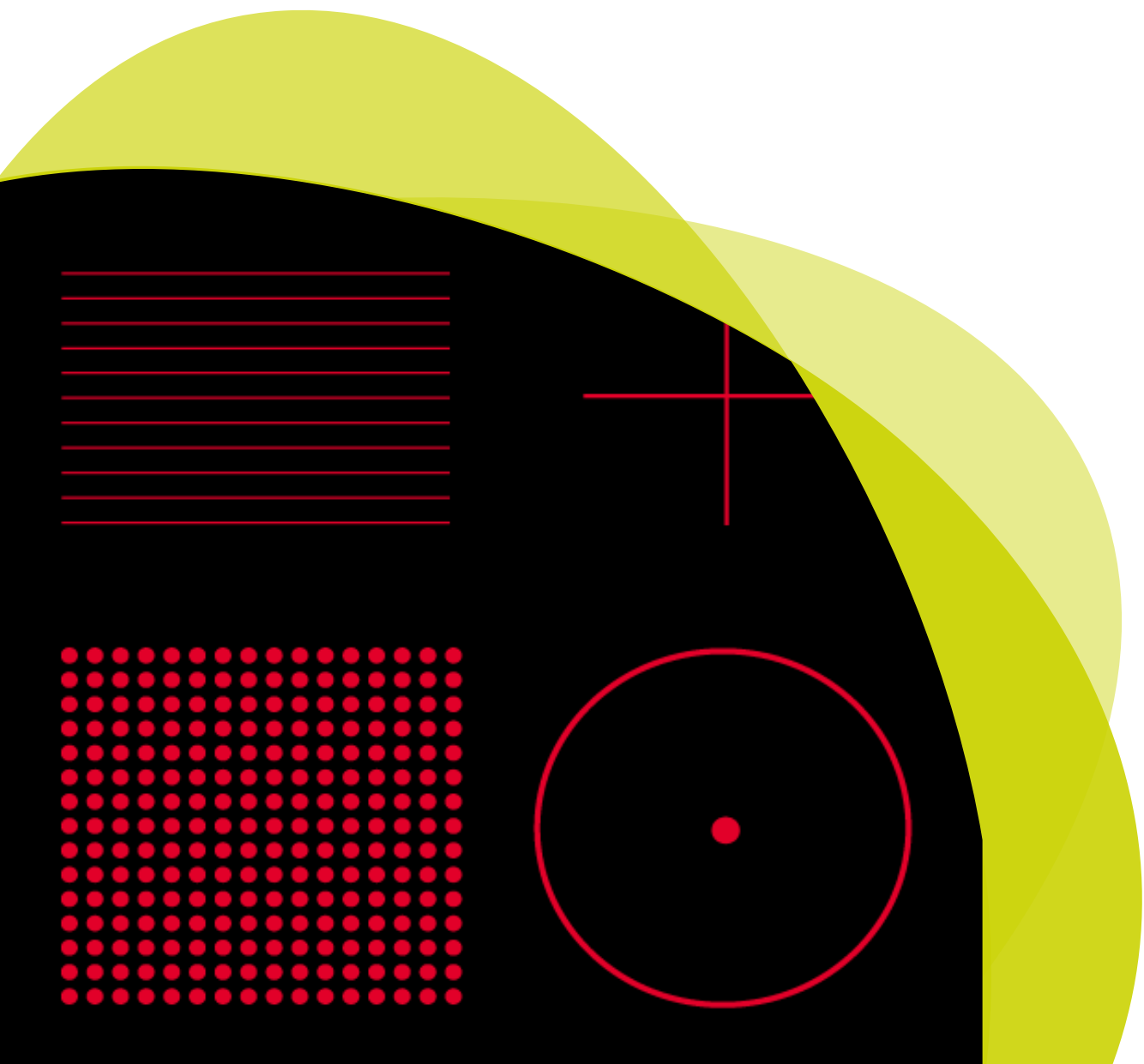


# Projection Lenses

premier & acculase modulatable/machine vision lyte-mv/dragonfly green/  
imatronic/laserlyte/laserlyte-flex/guideline/hawkeye detector/  
firefly green/firefly green mini/thread mountable cameo/15mm blue/  
survelase/survelase maxi/beta tx/bluelyte/varilite lc/dca/microblock/  
accessories/**projection lenses**/energy efficient/customised solutions.

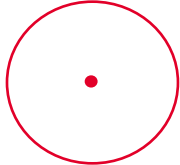
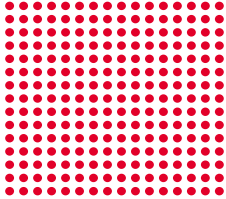
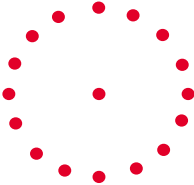
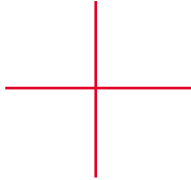
# Projection Options.

We offer a range of diffractive optical elements (DOE) to provide various patterns such as crosses, circles & dot arrays for such applications as 3D mapping, surface texture analysis, alignment & general machine vision applications. They are available as standard options for many of our laser diode modules.




# Technical Specification.

Below is a overview of the standard projection options that we carry in stock.

| Name                   | Description<br>(Full fan angle @ 635nm *)             | Typical interbeam<br>angle @ 635nm * | Image   |
|------------------------|---|--------------------------------------|---|
| <b>Circle with dot</b> | Fan Angle: 34° *                                      | N/A                                  |    |
| <b>Dot Array</b>       | Options include:                                      |                                      |   |
|                        | 11 by 11 (28.5°)                                      | 2.64°                                |   |
|                        | 13 by 13 (6°)   | 0.33°                                |   |
|                        | 16 by 16 (7°)   | 0.35°                                |   |
|                        | 17 by 17 (7° or 21°)                                  | 7° Fan = 0.32°<br>21° Fan = 0.92°    |   |
|                        | 21 by 21 (7°)   | 0.26°                                |   |
| <b>Dot Circle</b>      | Options Include:                                      |                                      |  |
|                        | 1 : 16 Dot circle (11°)                               | 2.08 °                               |   |
|                        | 1 : 72 Dot Circle (25°)                               | 1.09 °                               |   |
| <b>Cross</b>           | Fan Angles :<br>5°<br>10°<br>15°<br>25°<br>37°<br>45° | N/A                                  |  |
| <b>Circles</b>         | 5 Circles (28.6°)                                     | 2.64 °                               |   |
| <b>Grid</b>            | 4 by 4 (4.57°)  | 1.13°                                |   |
|                        | 51 by 51 Grid (21°)                                   | 0.34°                                |   |

# Technical Specification.

| Name                  | Description<br>(Full fan angle @ 635nm *) | Vertical fan angle @ 635nm * | interbeam angle @ 635nm * | Image   |
|-----------------------|---|------------------------------|---------------------------|---|
| <b>Multiple Lines</b> | 11 Thick Lines (30°)                      | 30°                          | 1.4°                      |  |
|                       | 11 Thin Lines (30°)                       | 30°                          | 2.98°                     |   |
|                       | 7 Lines (21.7°)                           | 21.7°                        | 3.55°                     |   |
|                       | 5 Lines (29°)                             | 5.95°                        | 1.43°                     |   |
|                       | 7 Lines (7.1°)                            | 4.92°                        | 0.74°                     |   |
|                       | 5 Lines (13.6°)                           | 13.6°                        | 4.12°                     |   |
|                       | 25 Lines (26°)                            | 26°                          | 1°                        |   |
|                       | 65 Lines (17.6°)                          | 17.6°                        | 0.23°                     |   |

- Fan and interbeam angle will change with wavelength.
- Lens Material is PMMA or PC
- Other patterns such as round and square viewfinders are available. Please call for availability.
- This range of lenses can also be fitted to other lasers from our standard range of products. Please call for availability.

## Quality & Warranty

Our products are supplied with a 12 month parts and labour warranty. And our manufacturing operations are certified to ISO9001.

**Please Note:** The images of the patterns generated by DOE's are schematic drawings. In a real setup, higher diffraction orders can be visible, and the undiffracted order can appear as a bright spot in the centre. Global Laser reserve the right to change descriptions and specifications without notice.

For further information about any of our products please contact your local distributor or you can contact Global Laser in the UK. Your Local Distributor Is:



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