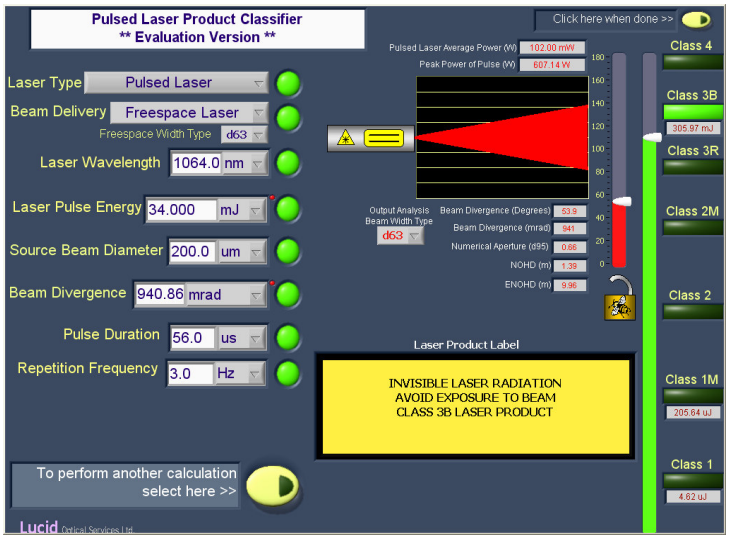
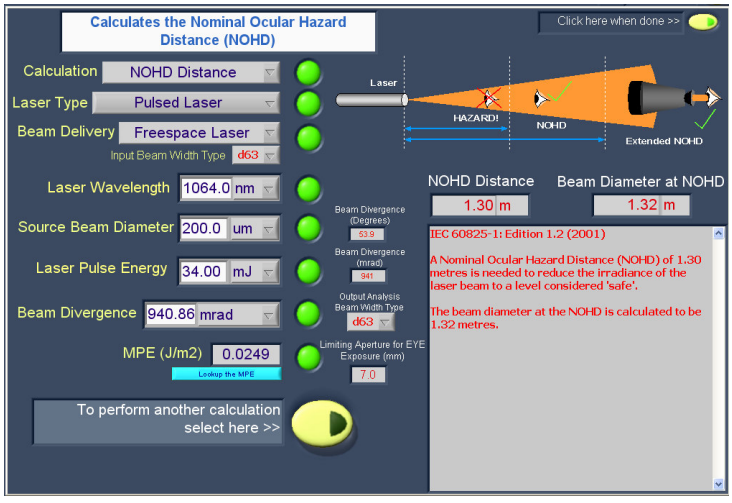
‘Laser Bee’ Laser Safety Software

Your laser safety requirements…

Introducing 'Laser Bee', a new laser safety software package developed by Lucid Optical Services in association with Laser Physics. The software has been specifically designed to provide assistance when carrying out the complex calculations found in IEC 60825-1 'Safety of Laser Products', EN207 'Filters and eye protectors against laser radiation' and EN208 'Eye-protectors for adjustment work on lasers and laser systems'. The simple 'go, no-go' approach and user friendly interface guides the user through the data input stage to ensure that when an analysis result is reached it is clear which route has been taken.







Features

- Record & Save Laser Details
- Laser Safety Eyewear & Filter Analysis (EN 207)
- Laser Alignment Eyewear Analysis (EN 208)
- Beam Divergence Analysis
- Laser Classification Information
- Laser Product Qualifier
- Nominal Ocular Hazard Distance (NOHD) Analysis
- Extended Nominal Ocular Hazard Distance (ENOHD) Analysis
- Maximum Permissible Exposure (Retinal MPE) IEC 60825-1 Lookup
- Accessible Emission Limit (AEL) IEC 60825-1 Lookup
- Source Subtense Analysis

Key Feature	Description	Laser Bee
Laser Safety Eyewear & Filter Analysis (EN 207)	Determine the Filter Scale number (L) and symbol marking of protective eyewear to use with your laser.	✓
Laser Alignment Eyewear (EN 208)	For alignment of visible laser beams – determine which Scale Number (R) is needed for safety eyewear.	✓
Beam Divergence Analysis	Determine how quickly your laser beam spreads with distance.	✓
Laser Classification Information	Quickly check the differences between the various laser classes and their labelling requirements.	✓
Record & Save Laser Details	Step-by-step data entry and guidance to help build a data record for all of your lasers. Update and modify your records as often as you like. Great for keeping records of your lasers and assessing the impact of subtle changes in your laser design.	✓
Nominal Ocular Hazard Distance (NOHD) Analysis	Determine the safe viewing distance (NOHD) for your laser. Alternatively if your NOHD requirement is fixed, work out the necessary beam power and divergence needed to make your laser beam safe.	✓
Extended NOHD Analysis	Viewing of beams using magnication optics.	✓
Maximum Permissible Exposure (Retinal MPE) IEC 60825-1 Lookup	Access the tabulated Retinal MPE information in IEC 60825-1. There is no need to lookup the various coefficients and limits – Laser-Bee Software does this quickly and automatically.	✓
Accessible Emission Limit (AEL) IEC 60825-1 Lookup	Access the tabulated Retinal AEL information in IEC 60825-1 in a matter of seconds.	✓
MPE/AEL correction factor table	Easy to understand table showing lookup table, formula and correction factors.	✓
Source Subtense analysis	Calculate angular subtense alpha required for analysis of extended sources or diffuse relected beams.	✓
Laser Product Classification	Determine the laser classification as defined by IEC 60825-1	✓
Laser Classification test set-up information table	Simple understand table showing laser classifixation tests required for different wavelength ranges.	✓
Define apparent source location module	Used when carrying out laser product classification to EN 60825-1.	✓

Computer requirements: Laser-Bee software is supplied on CD-ROM as a stand-alone program for personal computers running MS Windows 98, ME, 2000, XP