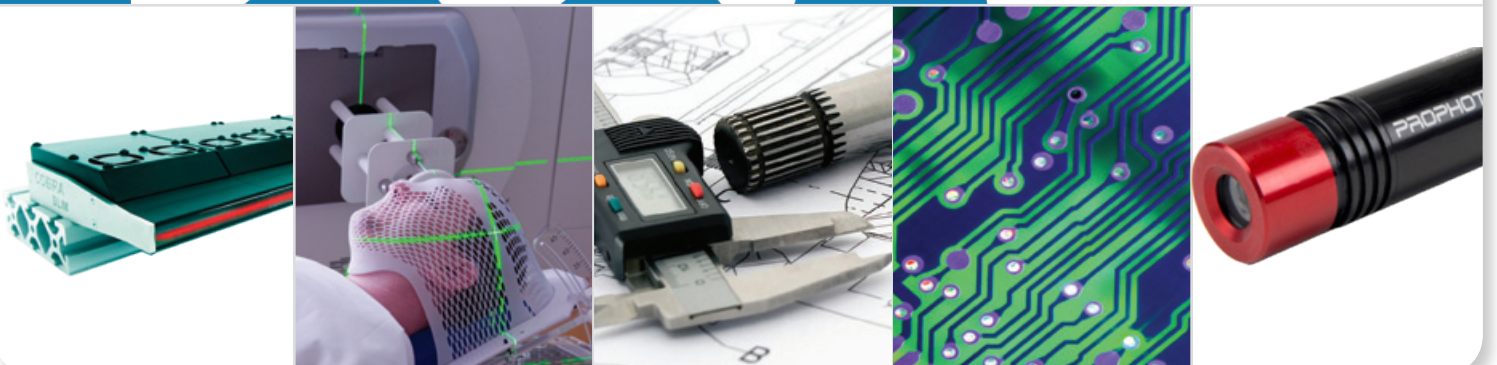


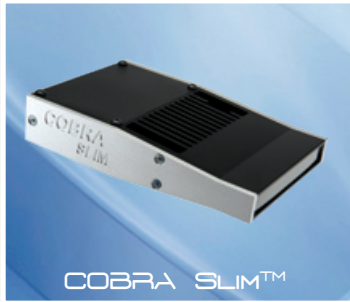


## Product Overview

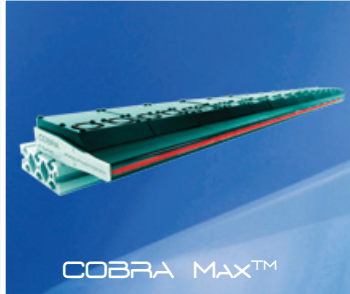


# LED SOLUTIONS

## LED Line Lights



COBRA SLIM™



COBRA MAX™



COBRA FLEX™

### COBRA SLIM LINE LIGHTS

- Intensity: Now up to 2900 kLux
- Design: Slim and compact
- Field adjustable: focusing distance and diffusers
- Chip-On-Board: Extreme brightness and high uniformity
- Modular: available in any length
- Current monitoring & error detection
- Wavelengths: from UV to Visible and IR

### LOTUS LINE LIGHTS

- Robust, compact mechanical design with integrated intensity control
- Intensity: Now up to 570 kLux
- 5 year lifetime with maintenance - free operation
- Water-Cooled option available offering up to 570 kLUX in the same compact form factor
- Fan-Cooled option now available offering up to 470 kLux in a compact design
- Available in any length up to 5 meters
- Available in a range of wavelengths



LOTUS™



LOTUS FAN-COOLED™



LOTUS WATER-COOLED™

## Vision Illumination



SPECBRIGHTS LED LINELIGHTS



SPECBRIGHTS LED SPOTLIGHTS

### SPECBRIGHTS

- Extremely bright & compact
- Superior uniformity
- Chip-on-board technology
- Seamless integration and mounting
- UV, visible, and near-IR
- Continuous wave or pulsed mode



SPECBRIGHTS LED RINGLIGHTS



SPECBRIGHTS LED AREALIGHTS

### Chip-on-Board

ProPhotonix employs "chip-on-board" technology in its design and manufacturing process of creating LED solutions. What this means is that the chips are placed in direct contact with a custom-designed, thermally efficient substrate.

#### Advantages of chip-on-board technology:

- Compactness
- High intensity due to tight packing density
- High uniformity, even at close working distances
- Efficient heat dissipation

New



3D Pro Laser

### 3D Pro Laser

- Compact, cylindrical form factor for easy mounting
- Excellent uniformity
- Line width of 30µm at 120mm
- Available options include: wavelengths, power levels, fan angles, intensity control & modulation



3D Pro Variable Focus Laser

### 3D Pro Variable Focus Laser

- Compact, cylindrical form factor for easy mounting
- Excellent uniformity
- Line width of 30µm at 120mm
- User adjustable focus for increased flexibility
- Available options include: wavelengths, power levels, fan angles, intensity control & modulation



3D Pro Laser Mini

### 3D Pro Laser Mini

- Compact, 10mm diameter cylindrical housing
- Lightweight
- Wavelengths from 405nm to 830nm
- Excellent uniformity
- Line width of 30µm at 120mm
- Available options include: power levels, fan angles, diffractive options, CW & TTL Modulation

New

### Why Choose Green?

The human eye is most sensitive to green light. In applications, this means that it is possible to use lower power devices, achieving the same visibility whilst reducing power consumption.



Green Photon

### Green Photon Module

- 520nm direct laser emission
- Compact and self-contained design
- Optical output power up to 20mW
- Elliptical beam and gaussian lines available



3D Pro Laser Green

### 3D Pro Laser Green

- 520nm direct laser emission
- Compact cylindrical form factor
- 19mm diameter
- Excellent uniformity
- Line width of 30µm at 120mm



3D Pro Laser Mini Green

### 3D Pro Laser Mini

- 520nm direct laser emission
- Compact cylindrical form factor
- 10mm diameter
- Excellent uniformity
- Line width of 30µm at 120mm



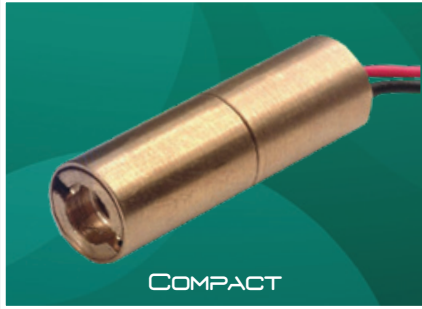
# LASER SOLUTIONS



INDUSTRIAL

## INDUSTRIAL

- Elliptical beam, line & cross generating optics available
- Robust, reliable and compact design
- Excellent bore-sighting <math><0.25^\circ</math>
- Available in wavelengths from 635nm to 830nm
- Optical output powers from 0.9mW to 30mW



COMPACT

## COMPACT

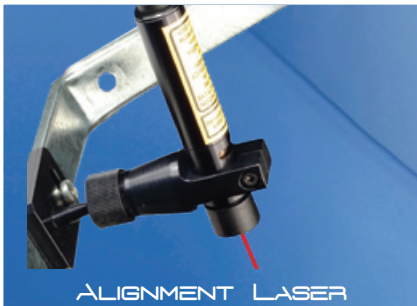
- Elliptical beam, line & cross generating optics available
- Compact design
- High reliability
- Wavelengths: 635nm and 650nm
- Output powers from 0.9mW to 4mW
- Hard anodised aluminium housing for electrical isolation available



PHOTON

## PHOTON

- Elliptical and circular beam, line generating optics available
- Compact & self-contained design
- High reliability
- Optical output powers from 0.9mW to 85mW
- CW or TTL modulation options
- Available wavelengths include 405nm, 520nm, 635nm and 830nm



ALIGNMENT LASER

## ALIGNMENT LASER

- Interchangeable optic heads
- Pre-aligned optics - no user adjustment required
- User adjustable laser intensity
- 14mm diameter housing
- 2.1mm jack connector for easy installation and replacement



GREEN DPSS

## GREEN DPSS

- Circular beam profile
- TE Controlled
- Low RMS noise
- Visible Light = 532nm
- 5mW & 10mW optical output powers available



TEC MODULES

## TEC MODULES

- Circular and Elliptical beam
- Exceptional wavelength & power stability
- Active temperature control
- Increased laser diode lifetime
- User adjustable optics



LASER DIODE COLLIMATORS

## LASER DIODE COLLIMATORS

- 635nm, 670nm or 780nm wavelengths
- Elliptical output beam
- Collimated output power – 0.9mW or 3mW
- Pre-fitted Laser Diode
- Factory set, collimated/focused output
- High Reliability



THREADMOUNT

## THREADMOUNT

- Complete laser diode system
- High reliability
- Available in wavelengths from 635nm to 670nm
- Circular output beam



FIBRE PIGTAIL

## FIBRE PIGTAIL

- Flange and coaxial housing
- Available from 635nm - 830 nm
- SM and MM fibre options
- Receptacle options available

# CUSTOM LED and LASER SOLUTIONS



## Custom Solutions

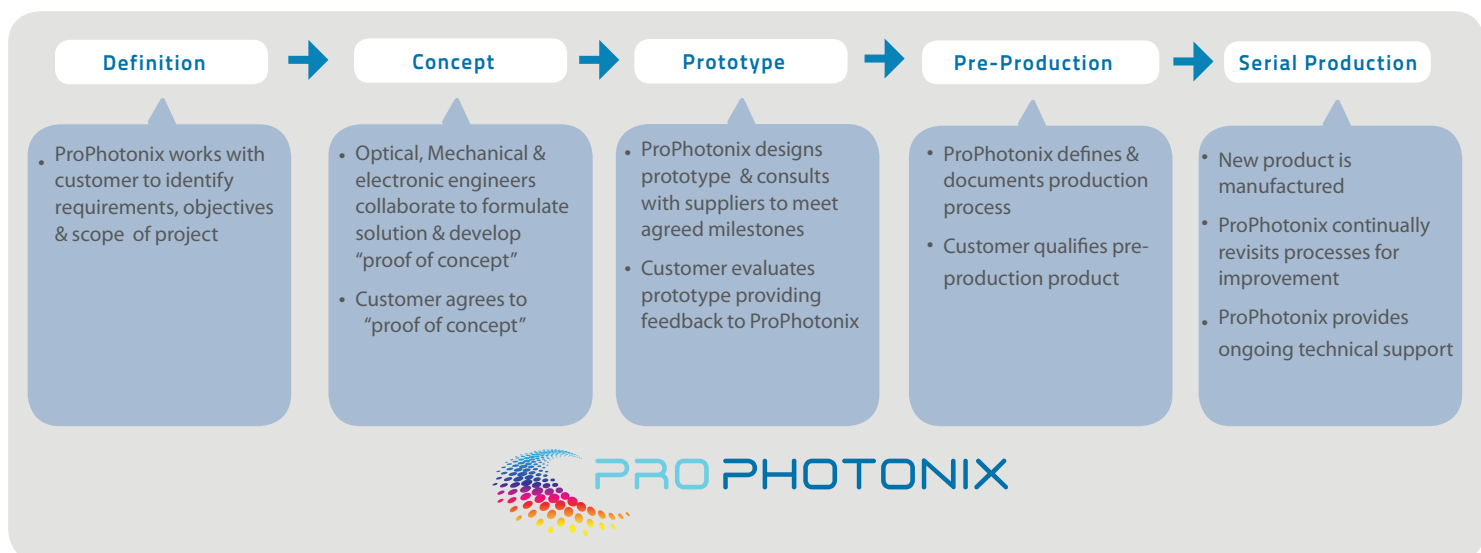
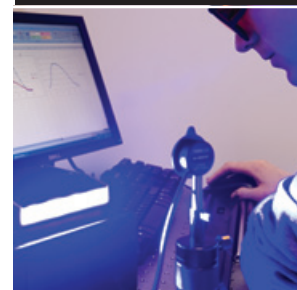
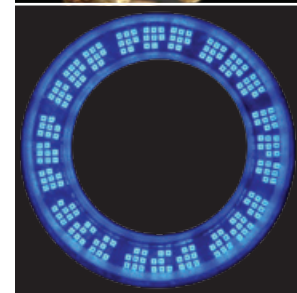
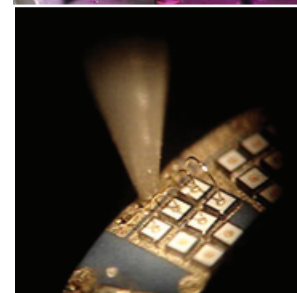
Today's challenging applications often demand very detailed and exacting requirements that may not be available from off-the-shelf solutions. For over 15 years ProPhotonix has worked closely with customers to design LED and Laser solutions for their specific application needs. Our goal is to deliver the most precise, efficient and cost effective product for your application.

'Making Light Work for You' is ProPhotonix mission. Delivering innovative solutions is only part of this mission. We also put all our resources and experience at your disposal to help you meet your targets.

At ProPhotonix our design process starts with the customer requirements. We recognise the importance of understanding every aspect of a customer's specification and our engineers collaborate directly with our customer to ensure that we do.

Once we agree on a full specification, ProPhotonix leverages the expertise of our in-house optical, electronic and mechanical engineers to develop a concept for your approval. By working closely with our supply chain partners, we ensure that we promptly deliver quality prototypes.

One of our key strengths at ProPhotonix is our ability to both design and manufacture turn key solutions. Our ISO certified production facilities offer the flexibility to produce highly complex products in both low and high volume for our global customers. Our processes and procedures ensure that we consistently deliver on time, every time.



# LASER DIODES

ProPhotonix distributes laser diodes from five leading manufacturers:



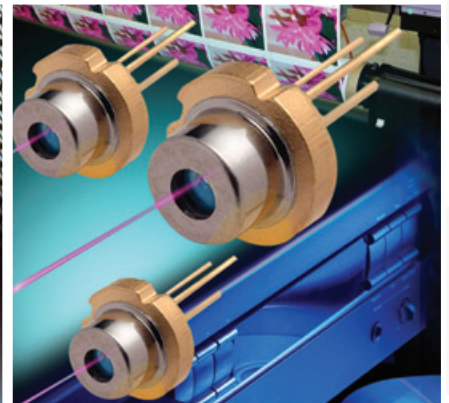
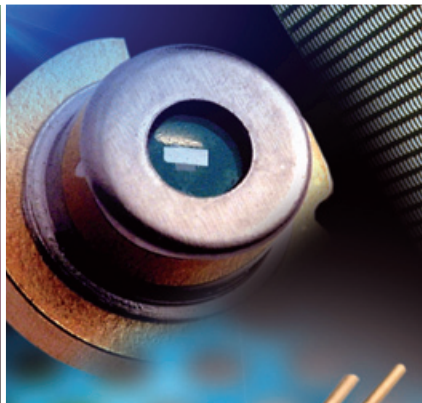
With over 15 years experience in laser diodes ProPhotonix offers:

- Technical support to help you to select the right laser diode and get the most from your application
- A wide range of diodes in stock to meet your requirements
- Excellent value due to the strength of our relationships with manufacturers
- Support on other parts of your system including optics, drive electronics and complete laser modules

We can offer a range of laser diodes to suit a number of applications with properties:

- Wavelengths: 405 to 910nm
- Power: 5mW to 6W
- Operating Temperatures to 70°C

Whatever your laser diode requirements, ProPhotonix can help find the solution.



## PROPHOTONIX



Edificio Antalia  
Albasanz, 16  
28037 MADRID  
Tel: 91 567 97 00  
Fax: 91 570 26 61

[www.alavaingenieros.com](http://www.alavaingenieros.com)

### CORPORATE HEADQUARTERS & NORTH AMERICAN SALES

32 Hampshire Road  
Salem, NH 03079  
USA  
Tel: 1-603-893-8778

### LED SOLUTIONS & RESEARCH AND DEVELOPMENT CENTRE

3020 Euro Business Park  
Little Island  
Cork, Ireland  
Tel: +353-2150-01300

### LASER SOLUTIONS & EMEA AND ASIAN SALES

Pierce Williams, Sparrow Lane  
Hatfield Broad Oak, Hertfordshire  
CM22 7BA, UK  
Tel: +44 (0) 1279 717170