

A man and a woman are shown in profile, facing each other. The man is on the left, and the woman is on the right. A vertical light beam is positioned between them, creating a sense of connection. The background is dark and moody.

**eagleyard**  
*photonics*

**GET IN TOUCH  
WITH THE POWER**

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



# LASER EXPERTISE

Engineering and beyond.

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

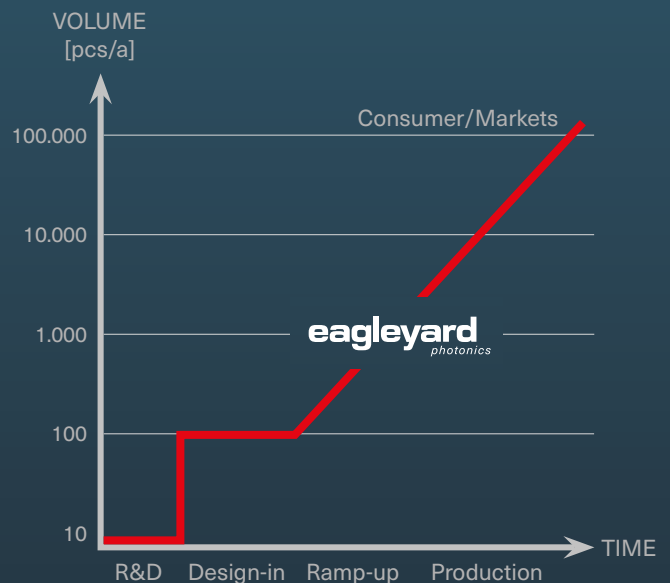
## GET IN TOUCH WITH THE POWER

High power laser diodes.

### WHY eagleyard

eagleyard is a global leading provider of High Power Laser Diodes with wavelengths ranging from 630 nm to 1120 nm. Our products combine maximum power, highest durability and excellent beam quality – a perfect match for high-end applications.

With our laser diode competence and know-how we bridge the gap between research and industry as we understand both worlds and link them together.



### OUR DISTINCTIVENESS

Our experienced management team has all the necessary skills to turn advanced technology into mature products to meet the requirements of our industrial customers. We offer a large variety of laser wavelengths and also have the flexibility to implement customized solutions.

A patented facet coating technology guarantees a long life time and the highest reliability for single emitter products.

### OUR TECHNOLOGY

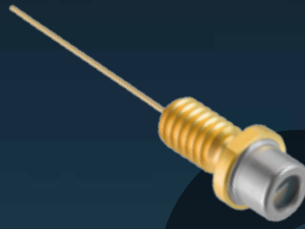
Based on GaAs technology our semiconductor laser diodes cover wavelengths ranging from 630 nm to 1120 nm. Being a partner of the world-renowned Ferdinand-Braun-Institute (FBH) eagleyard is at the leading edge of semiconductor laser technology. If you need high power and superior brightness – combined in a single emitter configuration – you will find it here.

# PRODUCTS

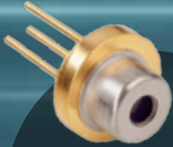
Engineered for extremes.



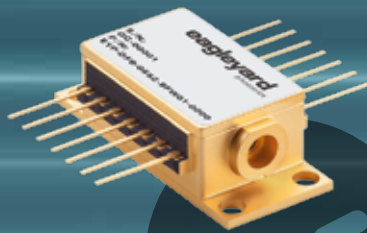
**TAPERED AMPLIFIERS**  
650 nm – 985 nm  
250 mW up to 3 W



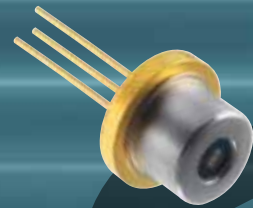
**MULTIMODE LASER DIODES**  
Broad Area Laser  
653 nm – 1120 nm  
1 W up to 18 W (cw mode)  
up to 100 W (pulsed mode)



**SINGLE MODE LASER DIODES**  
Fabry-Perot Laser, Tapered Laser  
780 nm – 1120 nm  
50 mW up to 800 mW

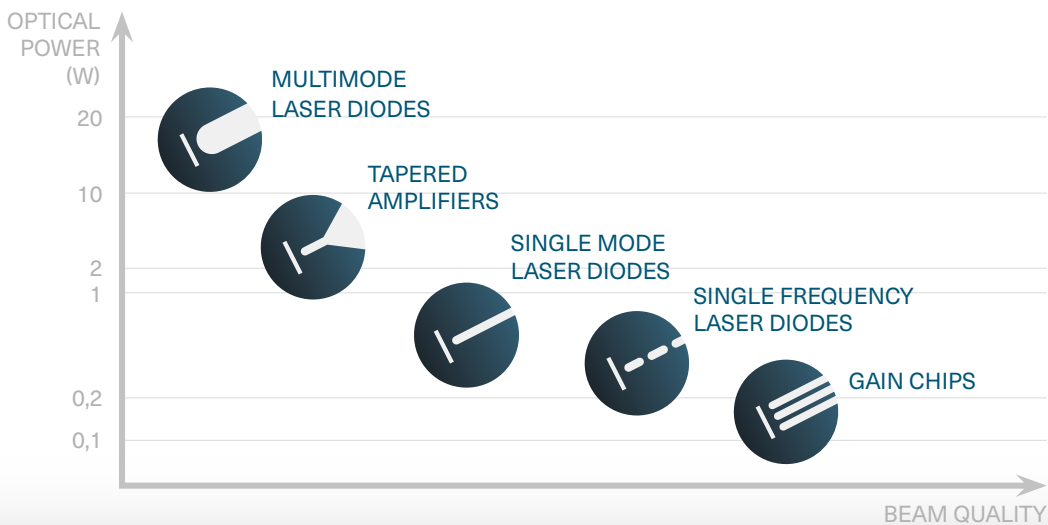


**SINGLE FREQUENCY LASER DIODES**  
DFB Laser, DBR Laser, RWS Laser  
630 nm – 1120 nm  
5 mW up to 150 mW (cw mode)  
up to 800 mW (pulsed mode)



**GAIN CHIPS**  
RWE Laser  
648 nm – 1070 nm  
up to 100 nm Tuning Range

## PRODUCT FAMILIES



The product portfolio comprises five basic types of laser diodes, each optimized to meet specific requirements. It ranges from single frequency laser diodes with 100 mW output power up to multimode high power laser diodes with 100 Watts in pulsed operational mode.

## NEED MORE INFORMATION?

For the latest news and a detailed description of our product portfolio including data sheets, app-notes, pictures and drawings please visit: [www.eagleyard.com](http://www.eagleyard.com)

# APPLICATION COMPETENCE

Supporting your success.

## MARKETS

Offering wavelengths ranging from 630 nm to 1120 nm eagleyard has become a leading provider of reliable laser diodes that serves the requirements for industrial, life science, space/defense and scientific applications.



- › Analytics
- › Atom cooling
- › Communication
- › Gesture recognition
- › LIDAR
- › Material processing
- › Metrology
- › Semiconductor manufacturing
- › Terahertz generation



- › Analytics / Sensing
- › Dental
- › Medical instruments
- › Microscopy



- › Aerospace
- › LIDAR
- › Satellite (LEO/GEO)
- › Launcher
- › Missile
- › Active protection



- › Atomic clocks / Atom cooling
- › Atom spectroscopy
- › Optical tweezer
- › Raman
- › Terahertz generation

## REFERENCE PROJECTS



### DFB HIGH-POWER SEED LASER DIODES FOR FIBER LASERS

These laser diodes are especially developed for providing short pulses allowing fiber laser manufacturers to optimize their system performance by reducing thermal stress.



### GOING TO SPACE WITH 1064 nm

Our DFB1064 laser diodes are used as a seed source component for an integrated light detection and ranging (LIDAR) remote sensing instrument designed by a one of our lead customers in the US for NASA's CLOUD AEROSOL TRANSPORT SYSTEMS (CATS).



### SINGLE FREQUENCY LASER DIODE FOR LASER SPECKLE CONTRAST ANALYSIS

The stable performance of our 785 nm single frequency laser diode illuminates the sample creating a high resolution speckle pattern for our customer's diagnosis instrument. The variations in the recorded speckle pattern are analyzed and presented as blood perfusion images in real-time.



### YOUR REFERENCE PROJECT

eagleyard's laser diodes might also be the core component for your project. We give full support during the whole product life cycle – from the product idea to high-volume production. Our high power laser diodes will provide your high-end system with the required reliability and performance. Just get in touch with us.

## WORLDWIDE SALES LOCATIONS

Your trusted partners.



For direct contact please mail to:  
[info@eagleyard.com](mailto:info@eagleyard.com)

