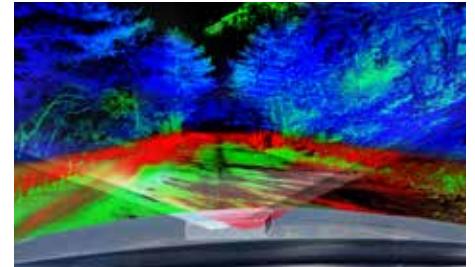


Lumentum Diode Lasers for 3D Sensing and Industrial Applications

Lumentum provides high performance, superior quality, and reliability at scale, while offering the customer a broad choice of products for the most demanding applications.



Whether in a computing device, automotive, industrial control, or consumer application, 3D sensing typically requires highly-efficient, low-power-consuming, safe, near-infrared illumination. To qualify for consumer applications, scalable manufacturing up to millions of pieces must be combined with consistent quality and reliability.

With more than 30-year expertise of continuous product improvement in output power, efficiency, brightness and reliability, Lumentum has a field-proven legacy of providing the highest power and highest reliability diode laser chips for terrestrial and submarine communications systems.

Lumentum diode lasers are used in a variety of applications with a wide range of operating conditions, field deployment times, and reliability requirements. Deep understanding of failure and aging mechanisms, extensive highly-accelerated multicell testing, detailed assessment and quantitative description enable precise failure rate projections.

While maintaining ultra-high product reliability, we are capable of high shipment volumes to meet the needs of large customers in the automotive, consumer electronics and other applications. Lumentum is already a high-volume supplier of diode lasers to various customers in the industrial and consumer markets. The Lumentum track record can give potential customers confidence that we can scale our high-reliability production process.

More than 150,000 Lumentum diode lasers are deployed in undersea optical repeaters with zero chip failures.



Key markets:

- Consumer electronics
- Industrial
- Telecom, terrestrial and undersea
- Automotive

Diode laser products:

- 3D sensing illuminators
 - Edge emitters and VCSELs
 - Wavelength options of 800-1000 nm and 1400-1550 nm
 - Optical power from 50 mW up to >10 W CW
- Optical communication pump lasers
 - Wavelengths of 980 nm, 1400-1520 nm
 - Optical power up to 1 W single-mode
- Industrial pump lasers
 - 9xx nm wavelength
 - Optical power up to 200 W CW multimode

Driving the evolution of 3D sensing in a variety of applications

- Home
- Mobile computer and mobile devices
- Virtual and augmented reality
- Automotive