# Picking the Right Diode Laser Manufacturer for 3D Sensing

## THE THREE ESSENTIALS

Diode lasers are everywhere: networking systems, telecommunications, even under the ocean. Field failures can immobilize everything-no calls, no files transferred, no gesture-controlled games, no images downloaded. Finding the right diode laser manufacturer is crucial in maintaining uninterrupted systems.



### PROVEN RELIABILITY

Lumentum has mastered the art of manufacturing extremely reliable diode lasers.

Through our expert design efforts, vertical integration, and in-depth product data, we have recorded zero, that's right zero failures for undersea cabling and also zero field failures for consumer applications.

TOTAL

**VOLUME** 

**FIELD** 

LIFE

**REQUIRED** 

**DIODE LASERS FOR UNDERSEA COMMUNICATIONS** 

150,000

**ZERO** 

**25**yr

**DIODE LASERS FOR CONSUMER ELECTRONICS** 

600 MILLION

**ZERO FAILURES** 5<sub>yr</sub>

## **QUALITY AT SCALE**

High-volume manufacturing is easy; high-volume manufacturing with high-quality isn't.

Leveraging our manufacturing sites and our partners (who must meet our stringent requirements), we achieve consistently high and predictable yields for our customers—year after year.

**INDUSTRIAL APPLICATIONS** 

50,000/year

**TELECOM** 

500,000/year

**CONSUMER ELECTRONICS**  100 million/year



### **EXPERT GUIDANCE** Our broad product portfolio enables us to provide

unmatched support to system designers. It's perplexing: single-mode or multimode? Which wavelength-800 nm,

850 nm, 940 nm, 1400-1550 nm? Is one power level better than another? What about eye safety compliance? We work with you impartially and collaboratively to make the best choice.



- scalable to 10s of watts Output beam: circular
- Wavelength locking with
- temperature



scalable to 10s of watts Output beam: elliptical

Power range: 200 mW -

- temperature
- FABRY-PEROT EDGE EMITTERS

#### • Power range: 200 mW scalable to 10s of watts Output beam: elliptical

Wide bandwidth: >1 nm

- Wavelength locking with The most efficient solution







Sensing Applications: Meeting the Challenges of Reliability and Scale.