

Laser Diode Price



Overview

Learn how various factors such as wavelength, power, spectral properties, package type and cavity type affect the cost of a laser diode.

Key Takeaways

Laser diode prices vary widely, from under \$1 for basic low-power units to tens of thousands of dollars for high-power or specialty devices.

Price Range

The cost of a laser diode depends heavily on wavelength, output power, spectral properties, package type, and quantity. Basic consumer-grade diodes, such as red lasers for pointers or optical mice (630-670 nm), can cost less than \$1 to a few dollars per unit. High-power or specialty diodes, including narrow linewidth, single-mode, or fiber-coupled modules, can range from hundreds to tens of thousands of dollars depending on specifications.

Factors Affecting Price

Wavelength: Common wavelengths for consumer electronics or telecommunications are cheaper due to high-volume production, while specialized wavelengths for biomedical or industrial applications are more expensive. **Output Power:** Higher power diodes generally cost more, and price differences between manufacturers can exceed 50% for similar specifications. **Package Type:** Standard diodes are cheaper, while advanced modules with integrated cooling, pilot lasers, or fiber coupling are more expensive.

Quantity: Bulk orders reduce the per-unit cost, while single-unit purchases are typically higher.

Where to Buy

Authorized distributors like Mouser and DigiKey offer a wide selection of laser diodes with transparent pricing and same-day shipping options. Specialty suppliers like Roithner Laser provide detailed price lists for UV, violet, blue, green, and red diodes, often used in research or industrial applications. Online marketplaces like eBay can offer competitive prices for both new and surplus diodes, though quality and specifications should be verified.

Summary

Laser diode prices are highly variable. For basic low-power diodes, expect \$1-\$10, while high-power, narrow-linewidth, or fiber-coupled modules can cost hundreds to tens of thousands of dollars. When purchasing, consider the wavelength, power, package type, and intended application, and compare prices across distributors and suppliers to find the best option for your needs.

Article Content

Pricing Guide for Buying Laser Diodes

Learn how various factors such as wavelength, power, spectral properties, package type and cavity type affect the cost of a laser diode. See a graph of laser diode price ranges

price list

Laser Diodes | UV | 375 - 400 nm. Laser Diodes | VIOLET | 405 - 415 nm. Laser Diodes | BLUE | 420 - 488 nm. Laser Diodes | GREEN | 510 - 520 nm. Laser Diodes | RED | 635 - 655 nm. Laser Diodes |

High Power Lasers Diodes (10W ~ 1kW)

Learn about high power laser diodes (>10 Watts) for various applications such as solid state laser pumping, fiber laser pumping, medical and security sensing.

Laser Diodes, Laser Modules

Shop DigiKey's large in-stock selection of Laser Diodes, Laser Modules - Laser Delivery, Laser Fibers. View inventory, pricing and order now for same day shipping!

Laser Diodes by Wavelength

Laser diodes, which are capable of converting electrical current into light, are available from Thorlabs with center wavelengths in the 375 - 2000 nm range and output powers from 0.2 mW up to 2 W.

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Is a 20W diode laser really worth the extra cost?

10W vs 20W diode laser How do 10W and 20W diode lasers really differ in cutting performance? A 10W diode laser is ideal for light cutting and engraving, but a 20W module is

5 Best Laser Cutters & Engravers in July 2026

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

