

What is the price of a 450nm laser diode



AI Overview

The price of a 450nm laser diode ranges from under \$10 for low-power modules to several thousand dollars for high-power or specialized fiber-coupled units. Price Ranges by Power and Type Low-power diodes (5–60mW): Small alignment or hobbyist 450nm laser diodes can cost \$5–\$50, depending on packaging and whether they include integrated optics or electronics. Medium-power diodes (50mW–7W): Fiber-coupled or single-mode 450nm diodes with options like PM fiber or integrated drivers typically range from \$100 to \$1,000, depending on power, stability, and spectral properties. High-power diodes (7–40W): Industrial-grade modules for cutting, engraving, or scientific applications can cost \$1,000 to \$5,000 or more, especially for multi-diode or turn-key modules with precise temperature control and high stability. Factors Affecting Price Output Power: Higher wattage diodes are significantly more expensive. Spectral Properties: Narrow linewidth, single-mode, or DFB/DBR diodes command higher prices. Packaging and Integration: Fiber-coupled diodes, integrated drivers, or turn-key modules increase cost. Volume and Market: High-volume consumer applications (like low-power blue diodes) are cheaper, while specialized scientific or industrial diodes are more expensive. Where to Buy Mouser Electronics: Offers a range of 450nm diodes with datasheets and pricing for hobbyist and professional use. AeroDIODE: Provides fiber-coupled single-mode and multi-mode 450nm diodes with integrated drivers, suitable for research or industrial applications. ATO.com: Sells high-power 450nm modules (up to 40W) for cutting and engraving, with prices reflecting industrial-grade performance. Edmund Optics: Offers low-power alignment laser modules for educational or optical system applications. In summary, a 450nm laser diode can cost anywhere from a few dollars for basic low-power modules to several thousand dollars for high-power, fiber-coupled, or specialized industrial units, depending on power, spectral quality, and integration features.

Article Content

450nm Laser Diode (20W High Power)

\$2,500 - \$5,000. These high power 450nm laser diodes offer output power up to 20W (CW). They are offered in a 2-pin high reliability fiber-coupled package.

LaserPecker LP4 Dual Laser Engraving Machine with Safety Cover

LaserPecker LP4 Dual Laser Engraving Machine with Safety Cover Complies with Laser Level 1 Standards, 450nm Diode Laser + 1064nm Infrared Laser, 8K 4000mm/s for Almost All Materials Visit

2026 Best Laser Diode Components for Global Buyers?

Right now, the global demand for these laser diode components is seriously climbing. Industries like telecommunications, medical tech, and manufacturing are all pretty dependent on them.

Laser Engraving on Metal: Materials, Lasers & Settings

Master laser engraving on metal: fiber vs CO2 vs MOPA, settings for aluminum, stainless steel, brass — parameter tables + OSHA safety + 2026 cost

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

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 designed to maintain usable energy

EEL M12 650nm Laser Diode AL52010001

The EEL M12 650nm Laser Diode is engineered for high precision and stable optical power output, featuring excellent heat dissipation and an integrated APC

How Much Does a Laser Marking Machine Cost in 2026?

If you are looking to integrate permanent laser marking into your workflow, the first question is inevitably: how much does a laser marking

[5 Best] Laser Engraver for Leather in 2026

It compares them based on weight, laser type, power, workspace size, engravable materials, accuracy, and price. 1. LaserPecker 4 - The World's First Dual-Laser Engraver for Almost

1000m Laser Pointer Guide: How to Choose Wisely

A practical, safety-aware guide to selecting a 1000m laser pointer—covering real-world range claims, power specs, legal limits, and what actually matters for presenters, educators, and

450nm Laser Diode, 80mW, 3.8mm Diameter

High-quality 450nm, 80mW laser diode with 5.8-7V voltage. IP20 certified, RoHS compliant, ideal for precise applications.

LASER TREE 450nm 25mW Blue PM Fiber Coupled

\$300.00 USD Output Power: 25W 25W Wavelength: 450nm 450nm Fiber Connector: FC FC SMA905 FC/APC

Thorlabs · L450G2 450 nm, 100 mW, Ø5.6 mm, G Pin Code, Laser

Our customer service teams will reach out if these items are revised. We welcome your thoughts!

450nm 1.8W-2W Blue Laser Diode 5.6mm GH04C01B2G 2000mW

1pc 450nm 1.8-2W Blue Laser Diode 5.6mm GH04C01B2G. Model No.: GH04C01B2G. CW Output Power: 2W. Threshold Current: 0.11A-0.21A.

In Stock 450nm Laser Diode Small & Portable Design

Shop high-quality 450nm laser diode modules for various applications. Find reliable, powerful, and efficient solutions for your laser equipment needs.

Best Laser Cutters and Engravers 2026: Diode, CO2

Laser cutters, also sometimes called laser engravers, come in all shapes and sizes, allowing you to safely work with a variety of materials, from oak to iron-on transfers.

Category: 450nm Laser Diodes

Mode Structure Single Mode 450nm Laser Diode, 50mW / 60mW (CW / Pulsed) Output Power, Single Mode Fiber-Coupled Fabry-Perot Laser 450LD-1-SM-NI LASER DIODE

100mW, 450nm Blue Alignment Laser Diode Module

Violet and Blue Alignment Laser Diodes are ideal for alignment and sensing applications. Available with output power options ranging from 1 to 100mW, these lasers are commonly integrated into visual

450 nm Laser Diodes – Mouser

Mouser offers inventory, pricing, & datasheets for 450 nm Laser Diodes.

GaN Laser Diode Market in Argentina | Report

The Argentina GaN laser diode market sits within a broader electronics and optical component landscape that is heavily shaped by the country's dependence on imported

450nm laser diode from 50mW up to 20W – fiber

These fiber-coupled 450nm laser diodes are offered as stock items or associated with a CW or Pulsed Laser Diode Driver. They are compatible with our high

Best Dental Diode Laser for General Dentistry Clinics: A ...

The best dental diode laser for a general dentistry clinic is not simply the highest-powered unit. It is the laser that reliably covers daily soft-tissue procedures, offers suitable wavelengths ...

450nm Laser Diode Price | Best Deals on Blue Laser Diodes

Discover 450nm laser diode prices with competitive rates, high power options from 80mW to 3.5W, and reliable suppliers. Shop new blue laser diodes for projection, medical, and industrial uses.

Contact Us

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