

How much does a blue laser diode cost



Article Overview

Blue laser diodes typically range from under \$10 for low-power consumer models to several thousand dollars for high-power or specialized devices.

Price Range Overview

The cost of a blue laser diode depends heavily on wavelength, output power, spectral properties, and application. Low-cost diodes, often used in consumer electronics or laser pointers, can be purchased for less than \$10. In contrast, high-power, narrow-linewidth, or single-mode diodes used in scientific, medical, or industrial applications can cost hundreds to thousands of dollars per unit .

- Consumer-grade diodes (405–450 nm, low power): \$5–\$50
- High-power diodes (445–488 nm, several hundred mW to watts): \$100–\$1,000+
- Specialty diodes (narrow linewidth, single-mode, biomedical imaging): \$1,000–\$10,000+ depending on specifications

Factors Affecting Price

- Wavelength: Common wavelengths like 405 nm, 445 nm, and 450 nm are produced in higher volumes, reducing cost. Less common or highly precise wavelengths command higher prices .
- Output Power: Higher power diodes require more advanced cooling and packaging, increasing cost .
- Spectral Quality: Narrow-linewidth or single-mode diodes for research or medical use are significantly more expensive than broad-spectrum consumer diodes .

Article Content

price list

Laser Diodes | BLUE | 420 - 488 nm. Laser Diodes | GREEN | 510 - 520 nm. Laser Diodes | RED | 635 - 655 nm. Laser Diodes |

Blue 450 nm Laser Diodes – Mouser

Blue 450 nm Laser Diodes are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for Blue 450 nm Laser

Blue Lasers – Power Technology, Inc.

Since 1969, Power Technology, Inc has been manufacturing, designing, and distributing blue laser diode modules for companies in

450nm Blue Module Diode (Industrial Blue Dot)445nm | Adjust

Focusable 445nm 5mw violet laser module If laser spot is not dot when you get,pls adjust the front cap to get dot as you need at

Blue Lasers – violet, cyan, upconversion, laser diodes, frequency

Blue lasers are lasers emitting blue light. There are many different kinds of blue lasers, including laser diodes and frequency-doubled

Blue Laser Diodes

High quality Blue Laser Diodes. 405nm, 488nm and 500nm. Data sheets available for download. Click here

Amazon : Diode Lasers

Online shopping for Diode Lasers - Optoelectronic Products from a great selection at Industrial & Scientific Store.

Laser Diodes, Modules | Optoelectronics | DigiKey

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High-Powered Diode Lasers—New, Bright and Blue

Blue diode laser designs with kW powers are advancing in industrial processing applications, including cutting, welding

Blue High Power Diode Laser up to 6 kW | LASERLINE

The blue diode laser revolutionizes the processing of copper, gold, and other highly reflective metals in several ways respects. The

Amazon : Blue Laser Diode

1-48 of 443 results for "blue laser diode" Results Check each product page for other buying options.

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Electronic Components Distributor

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

ams OSRAM 455 nm High-Efficiency Blue Laser Diode | ams OSRAM

Introducing the New High-Efficiency Blue Laser Diode with 455 nm Wavelength Premstaetten (Austria) and Munich (Germany),

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Blue laser diode price: Best deals & trends 2025

What is the current price range for blue laser diodes? Why do prices for blue laser diodes vary so much? Are blue

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Blue Laser for Marking & Cutting Applications

blue Laser - a flexible, eco-friendly solution in entry-level marking and cutting applications The latest blue

Blue laser diode 5w

Blue laser diode 5W, close to \$165, minimum order of 1 unit, easy-to-use engraver supports BMP, JPG, DXF formats. Available for

Blue laser

Blue, direct diode semiconductor lasers can be built using inorganic gallium nitride (GaN) or InGaN gain

Blue Laser Diodes – Mouser

Mouser offers inventory, pricing, & datasheets for Blue Laser Diodes.

Compact Blue Laser Diode Modules

Blue Laser Diode Modules available in 450nm and 488nm, and a range of form factors, output powers, and beam shapes to suit your

Blue Lasers – Buyer's Guide & Supplier List | RP Photonics

This buyer's guide for blue lasers provides technical background, comparison of major types, selection criteria, and an overview of

Laser Diode

Laser diodes, which are capable of converting electrical current into light, are available from Lasertree with center wavelengths in the

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://e-motional.eu>

Email: info@e-motional.eu

Phone: +49-30-657-8924

Address: Friedrichstraße 101, 10117 Berlin, Germany

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