

How much does a 450nm laser diode cost in East Africa



AI Overview

A 450nm laser diode typically costs between \$50 and \$500 USD, depending on power, module type, and shipping options.

Price Range and Factors

- Low-power single-mode diodes (up to ~60mW):** These can cost around \$50–\$150 USD for basic modules, often including a CW laser diode driver.
- High-power multimode diodes (7W–20W):** Turnkey integrated modules with fiber coupling, cooling, and driver electronics can range from \$300–\$500 USD or more.
- Module options:** Prices vary depending on features such as PM fiber, FC/APC connectors, integrated touch-screen control, or advanced temperature regulation.
- Shipping and Import Considerations:** Most suppliers, including AeroDIODE and Mouser, ship internationally from Europe or the USA. Importing to East Africa may incur customs duties, VAT, and shipping fees, which can add 10–30% or more to the base price depending on the country. Local distributors in Kenya, Tanzania, or Uganda may offer limited stock, but prices are generally higher due to import markups.
- Recommendations:** For budget-conscious projects, consider low-power single-mode diodes with basic drivers. For industrial or research applications, high-power turnkey modules provide stability and integrated control but at a higher cost. Always check warranty, datasheets, and shipping policies before ordering internationally to East Africa.

In summary, a 450nm laser diode in East Africa will likely cost \$50–\$500 USD, with the final price influenced by power, module type, and import fees.

Article Content

450 nm Laser Diodes – Mouser

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

450nm Laser diode & Turn-key solutions

Choose your own fiber-coupled laser diode + turn-key Driver solution Standard singlemode or multimode laser diodes are offered as stock items or associated with a CW or pulsed open-frame or turn-key

5mW, 450nm Blue Alignment Laser Diode Module

Violet and Blue Alignment Laser Diodes used in monochromatic and visual-based vision systems and alignment and sensing applications are available at Edmund

Pricing Guide for Buying Laser Diodes

IntroductionHow Does The Wavelength Affect The Price of A Laser diode?How Do The Spectral Properties Affect The Price?Fabry-Perot Laser DiodesDFB, DBR and ECL Single Frequency Laser DiodesNarrow Spectral Linewidth Laser DiodesHow Does The Package Type Affect Price?Bare Laser Diode Chips and Coc Devices (\$10~\$500)Open Heat Sink Laser Diodes (Range Is Approximately \$50 ~ \$1,000)Butterfly Packaged Laser Diodes (Range Is Approximately \$600 ~ \$4,500)Semiconductor laser diodes range widely in price based on a few key parameters. The wavelength, power, spectral qualities, package type, cavity type and quantity will all have an effect on the price. You can buy a laser diode for less than a dollar. But the price can also be in the tens of thousands of dollars just by changing several paramaters. T...See more on laserdiodesource Digi-Key Electronics

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Pricing Guide for Buying Laser Diodes

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450nm laser diode-AliExpress

This article provides a comprehensive overview of the 450nm laser diode, including its specifications, use cases, and how it compares to other laser diodes in the blue spectrum.

Blue 450nm 5W To5 High Power Laser Diode Wholesale Price Laser

The Blue 450nm 5W To5 High Power Laser Diode is a compact, high-performance component designed for precision lighting applications. With a 450nm wavelength and 5W maximum power output, it

Laser Diodes, Modules | Optoelectronics | DigiKey

Laser Diodes, Modules Laser Diodes and Modules are semiconductor devices that can emit a beam of high intensity focused radiation, typically in the infrared, visible or ultraviolet wavelength ranges of the

Laser Diodes - Mouser

Laser diodes are available at Mouser Electronics from industry leading manufacturers. Mouser is an authorized distributor for many laser diode manufacturers including ams Osram, KYOCERA AVX,

450nm, 100mW Blue Laser Diode

The CS450100S3X from Laser Components is a 445nm laser diode. It emits visible light at a wavelength of 450 nm and has an output power of 100 mW. The laser

Laser Module

This is the latest Gen 2 - 40W laser module, which has an output power of 15W as opposed to the 5.5 and 7.5mw laser modules. Some of its features are: Designed for Laser Engraver, 3D printer, CNC

Laser Diode, Surface Mount & Through Hole | RS

Laser diodes are semiconductor devices which closely resemble an LED (light emitting diode). How do they work? Laser diodes work in a very similar way to LEDs, however they create a laser beam at its

Principle, development history, and application of

In 2001, Nichia prepared a 150mW laser. Early bluet lasers were low-power and did not gain much attention. Until recent years, with the marketization

450nm SM Blue Laser Diode

High power 450nm single mode blue laser diode provides high brightness laser light radiation in various industrial fields efficiently.

450 nm 80mW Osram Blue Diode

APS new Integrated Laser System (ILS) product line features a family of fully integrated systems, available in various powers and wavelengths. Enclosed in a price list

LD Fiber receptacle package. LD PIGTAILED HHL | UV | 395 - 400 nm. LD PIGTAILED HHL | VISIBLE | 445 - 690 nm. LD PIGTAILED HHL | INFRARED | 780 - 940 nm. LD PIGTAILED HHL | INFRARED |

450 nm Laser Diode

With its CS450050M3X, LASER COMPONENTS offers a blue laser diode at a wavelength of 450 nm and an optical output power of 50 mW. The single mode laser diode has a

450nm blue laser diode-AliExpress

The 450nm blue laser diode is available in various power levels, from 1W to 100W, and even higher in industrial models. For most DIY and hobbyist projects, a 1W to 5W laser is sufficient.

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.

Laser Diodes, Laser Modules

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450 nm Collimated Diode Laser System

Description 450 nm Blue Collimated Diode Laser System The LRD-0450 Series of Collimated Diode (Semiconductor) Lasers are ideal for applications requiring a short wavelength of 450 nm and output

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

These single-mode and multi-mode fiber-coupled 450nm laser diodes are offered as stock items or associated with a CW or pulsed Turn-Key Laser Diode Driver.

450nm laser diode-AliExpress

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450 nm Laser Diodes - Mouser

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450 nm Laser (MM Diode; MM Fiber)

DESCRIPTION This is a multimode fiber-coupled high-power blue diode with more than 600 mW output power. 450 nm laser diode module is an excellent choice for flow cytometry, fluorescence, and

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