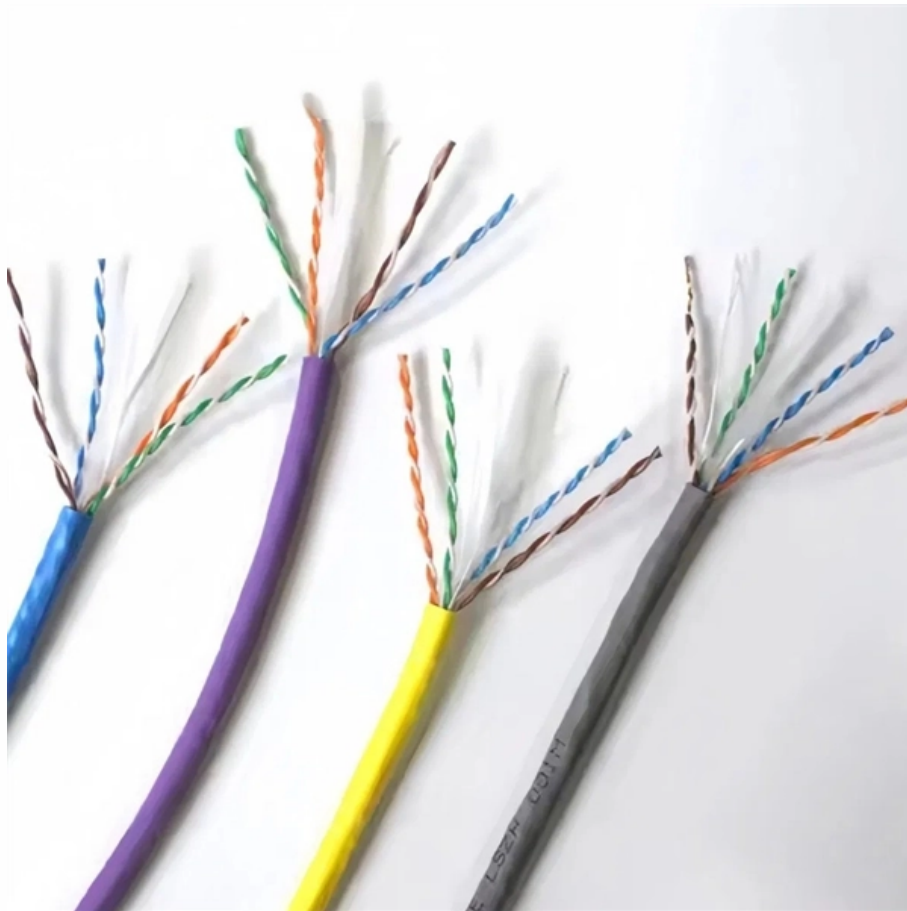


# Columbia Laser Diode





## Overview

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Offering diode lasers in a wide range of wavelengths, power, and package configurations. Is a Polarization Maintaining CWDM Coaxial DFB-LD for CWDM analog communication, CATV return-path, laboratory instrument, and R&D applications. Newsletters From daily news and career tips to monthly insights on AI, sustainability, software, and more—pick what matters and get it in your inbox. Developers describe it as "a significant miniaturization advance for quantum optics and laser displays for AR/VR". Illustration of the integrated laser platform created by the Lipson Nanophotonics Group, where a single chip generates narrow linewidth and tunable visible light covering all colors. Single longitudinal mode lasing is characterized with sub-kilohertz linewidth and a 9 nm coarse tuning range. We try to help our community of laser scientists & engineers find the best products for their projects by hosting a free Open-Index product database with lasers from all manufacturers.



## Columbia Laser Diode

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### **Compact Laser Diode Modules: 635nm-639nm Visible Wavelength,**

View product information for Compact Laser Diode Modules: 635nm-639nm Visible Wavelength, 11mm Diameter.

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### **Powerful and Precise Multi-color Lasers Now Fit on a**

Research Powerful and Precise Multi-color Lasers Now Fit on a Single Chip Researchers at Columbia Engineering have developed a compact light source

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## Diode Lasers

Advanced Photonic Sciences (APS) has introduced a new product line of Laser Diode Micro-Modules (LDMM's) that address the need for a simple, robust, reliable, and cost-effective platform on which to

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## Michal Lipson's Team Shrinks Powerful Multi-Color

Researchers at Columbia Engineering have developed a compact light source that generates dozens of high-power wavelengths, paving the way for a new

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## Diode Laser Finds Home Aboard Columbia

The video guidance sensor aboard the space shuttle Columbia featured eight fiber-coupled diode lasers as its essential components. The fiber-coupled lasers, manufactured by Opto Power Corp. of

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## Diode Lasers

Spot Creator is an innovative accessory developed for enhancing the performance of blue laser diode based engraving and cutting machines. Spot Creator solves a major problem with using asymmetric

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## Laser Diode Driver

Fibotec offers special laser diode drivers, especially versions that accommodate laser diodes via integrated terminal bases. Two standard products for different applications accommodate laser

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## Extended ultrahigh-Q-cavity diode laser

These SOAs, integrated with microresonators, can potentially form a modified extended cavity diode laser (ECDL) with ultra narrowband feedback, and unique and broadly tunable properties to match

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## Laser Diode Testing

Laser reliability testing consists of a series of tests that laser diodes can be put under in order to ensure their reliability for post-production use. There are different types of tests that can be carried out and

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## PULSED FIBER DIODE LASERS SPECIFICALLY DESIGNED FOR

Tom Phipps, CEO of Columbia Marking Tools, says, "The laser has merely added another method of marking technology to the list of processes available to manufacturers today. As marking experts, we



## **From The Fu Foundation School of Engineering and**

The team chose a type called a "multimode laser diode, which is used widely in applications like medical devices and laser cutting tools. These lasers

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## **Laser Diagnostics and Solid State Physics Laboratory**

The Laser Diagnostics and Solid State Physics Laboratory conducts studies in laser spectroscopy of semiconductor thin films and superlattices, and laser diagnostics of thin film processing, in

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## **Laser Diode Burn-in Reliability Test System**



The Chroma 58604 is a high density, multi-function, and temperature controlled module for laser diode burn-in and lifetime tests. Each module has up to 256 SMU channels which can source current and

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## Laser Diode Drivers

View product information for Laser Diode Drivers. Renesas offers a portfolio of laser diode driver (LDD) ICs for DVD/CD/Blue-ray optical drive and laser projection applications.

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## Laser Diode Modules: 635nm-660nm Visible Wavelength, Elliptical Beam

View product information for Laser Diode Modules: 635nm-660nm Visible Wavelength, Elliptical Beam.

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## Diode Lasers

Offering diode lasers in a wide range of wavelengths, power, and package configurations. Providing optimum solutions for applications in laser pumping, materials processing, medical, defense, and

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## Laser Diode Drivers For Automotive

Renesas' highly integrated laser diode driver enables automotive head-up displays (HUDs) with high resolution, high color-depth and high frame-rate projections.

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## Columbia develops 'fingertip-sized' lasers emitting from near-UV to



The researchers solved the coupling loss problem by choosing Fabry-Perot (FP) diodes as the light sources, which minimizes the impact of the losses on the performance of the chip-scale lasers.

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## **Infrared Laser Diode Modules: 830nm-852nm, Elliptical Beam**

View product information for Infrared Laser Diode Modules: 830nm-852nm, Elliptical Beam.

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## **New Tiny chip creates 'rainbow laser' for faster data speeds**

To move faster, engineers need light sources that can send multiple streams through the same fiber at once. That's what researchers at Columbia

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## Laser Diode Driver

View product information for Laser Diode Driver. The LDD100 employs a digitally programmable analogue end stage for flexible and accurate current control. Currents of up to 600A with pulse

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## Laser Diode Driver

View product information for Laser Diode Driver. LD Driver slot module of FOTS system is an efficient module that is user centered, which can drive various kinds of laser diode for the use of optical signal

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## Laser Diode

This cost-effective, high reliability DFB laser chip has a selectable wavelength with range



between 1270 nm to 1610 nm. The versatile DFB-CWDM also features a built-in InGaAsP monitor photodiode, built

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## **High-performance Visible-light Lasers that Fit on a Fingertip**

Researchers at Columbia Engineering 's Lipson Nanophotonics Group have created visible lasers of very pure colors from near-ultraviolet to near-infrared that fit on a fingertip.

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## **Pulsed Laser Diode Drivers**

The N7778C value line tunable laser source offers a peak output power of more than +12 dBm, at least 75 dB/nm above its spontaneous emission level. It features a typical wavelength repeatability of  $\pm 1.5$

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## Powerful and Precise Multi-color Lasers Now Fit on a

Researchers at Columbia Engineering have developed a compact light source that generates dozens of high-power wavelengths, paving the way for a new

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