



K15 Optical Module

Article Overview

The K15 Pro laser engraving machine uses a 40W optical power TTL laser module, with optional 1W IR laser module upgrades for metal and specialized materials.

Standard Laser Module

The K15 Pro is equipped with a 40W TTL (transistor-transistor logic) optical laser module, which provides precise control over laser output for cutting and engraving a wide range of materials, including wood, acrylic, leather, paper, and fabric . This module allows the machine to cut wood up to 10mm thick and perform detailed engravings with high resolution, up to 1000 DPI . The TTL control ensures stable and accurate laser power modulation, making it suitable for both DIY and professional woodworking projects .

Optional IR Laser Module

For users who want to engrave or mark metals and other hard surfaces, the K15 Pro supports an upgradeable 1W infrared (IR) laser module operating at 1064nm . This module can handle materials like stainless steel, aluminum, brass, and coated metals, expanding the machine's versatility beyond organic materials. Switching between the standard diode laser and the IR module is designed to be straightforward, allowing users to cover nearly all materials without replacing the entire machine .

Summary

- o Primary Module: 40W TTL optical laser for wood, acrylic, leather, and similar materials
 - o Optional Upgrade: 1W 1064nm IR laser for metals and specialized surfaces
 - o Control: TTL for precise power modulation
 - o Cutting Capability: Up to 10mm wood
 - o Resolution: Up to 1000 DPI
- This combination of modules makes the K15 Pro a versatile tool for engraving and cutting over 100 different materials, suitable for hobbyists, small businesses, and professional creators .

Optical Modules Market size was valued at USD 3.5 billion in 2025 & is estimated to reach USD 8.2 billion by 2034,

Explore DCI Modules Marvell offers a portfolio of DCI modules designed to efficiently transmit data over regional fiber networks.

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SZLGLXSM-K15 integrates SZL-Industrial-Sensor, GLX-Optical-Module, and SM-K15-Measurement-System for high-precision

Guangzhou FiiO Electronics Technology Co., Ltd. In here you could find the introduction, resources download, troubleshooting or

Model: K15 series 7 inch IPS touch screen, 1280*800 resolution 8MP CVI/ TVI/ AHD/SDI camera test, support TVI5.0 Audio test 8K

An optical module is a typically hot-pluggable optical transceiver used in high-bandwidth data communications applications. Optical

The system can be synchronized with another source, for example for optical pumping or as a test bed for THz antennas. Optionally,

8K H.265 Multifunction 7 inch CCTV Tester SFP optical module AHD CVI TVI SDI color bar generator in one tester monitor Model:

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K15 8K H.265 Multifunction 7 Inch IPS CCTV Tester SFP Optical Module AHD CVI TVI SDI Color Bar

Menlo Systems GmbH Request Info MARTINSRIED, Germany, April 29, 2015 -- Suited for scientific materials testing

It has a gigabit SFP optical fiber module port, supports inserting SFP optical fiber module for optical fiber network testing.

The FiiO K15 Desktop DAC/AMP sells for \$549 USD and it is our latest Recommended Buy

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