

LDI Machine Laser Diode



Overview

The LDI is a multiline, solid-state laser illuminator offering up to 1000mW of output power per laser line via a multimode fiber at the price of a low power LED light engine. For decades, the standard way to transfer a circuit pattern onto a PCB was through a subtractive process involving photolithography and a film negative. Unlike traditional exposure systems (contact/proximity printers), LDI eliminates the need for film tooling. Enter Laser Direct Imaging (LDI): a game-changing technology that uses high-power lasers to etch circuit patterns directly onto PCBs, eliminating the need for physical masks and unlocking unprecedented levels of quality. Printed Circuit Boards are the unobtrusive facilitators of contemporary technology, energizing anything. Han's TCS can supply 405nm semiconductor laser system to manufacturers of LDI devices. We have many LDI equipment customers and rich industry application.



Article Content

Laser direct imaging (LDI) in PCB manufacturing

What is Laser Direct Imaging (LDI)? Laser Direct Imaging (LDI) is a cutting-edge technology used in PCB manufacturing to directly transfer circuit patterns onto

89 North LDI Family Onesheet

With feedback controlled output stability and up to a 100:1 linear dynamic range, the LDI is the ideal light source for quantitative imaging, ratiometric imaging, and more repeatable optogenetics experiments.

Laser Direct Imaging (LDI) in PCB Production: How It Transforms

Enter Laser Direct Imaging (LDI): a game-changing technology that uses high-power lasers to etch circuit patterns directly onto PCBs, eliminating the need for physical masks and

Laser Direct Imaging (LDI)

As a leading semiconductor laser diode and system manufacturer in China, Han's TCS has reached the international leading level in semiconductor laser diode packaging and fiber coupling technology. We

The Advantages of Using Laser Direct Imaging (LDI) in High Layer

Conclusion Laser Direct Imaging (LDI) is revolutionizing high-layer-count PCB manufacturing by offering unmatched precision, flexibility, and efficiency. From achieving fine line

Factory Direct 755/810/940/1064nm Diode Laser Hair Removal Machines

The global laser hair removal market continues to expand as more consumers seek safe, effective, and long-lasting hair reduction treatments. Beauty salons, med spas, aesthetic clinics, and distributors

HIGH-PERFORMANCE LASER DIODE ILLUMINATOR

HIGH-PERFORMANCE LASER DIODE ILLUMINATOR OVERVIEW The LDI is a multiline, solid-state laser illuminator offering up to 1000mW of output power per laser line via a multimode fiber at the

Laser Direct Image (LDI): Boost PCB Manufacturing

Laser Direct Imaging (LDI) technology stands at the forefront of modern PCB manufacturing, offering unparalleled precision, flexibility, and efficiency. By

The Complete LDI PCB Process Explained

The laser LDI PCB process offers a solution. By using laser-based direct imaging (LDI), manufacturers can achieve unparalleled precision, improve yield, and support the increasingly

Laser Direct Imaging: LDI in PCB Manufacturing

LDI technology is used in various industries, including consumer electronics, automotive, aerospace and defense, medical devices, and industrial automation. What are the key components

Laser Direct Imaging: LDI in PCB Manufacturing – PCB COPY

Introduction to Laser Direct Imaging (LDI) Laser Direct Imaging (LDI) is a cutting-edge technology used in the manufacturing of printed circuit boards (PCBs). It has revolutionized the PCB

Laser Direct Imaging (LDI) in PCB Production: How It Transforms

Before diving into LDI's quality impact, it's essential to grasp how the technology works and why it differs from traditional methods. What Is Laser Direct Imaging (LDI)? Laser Direct Imaging

Laser Direct Imaging (LDI) in PCB Manufacturing

The PCB Manufacturing process has changed through the years, and Laser Direct Imaging (LDI) is one of the newer techniques that have been allowing PCB

Quality Laser Direct Imaging Machine & Laser Direct

The laser direct exposure machine includes a high-precision optical lens, a DMD imaging system, a 405-nanometer laser, a stable motion platform, a computer

Automating PCB Direct Imaging: Integrating LDI into Your Production

Laser Direct Imaging, or LDI, uses a modulated laser beam to expose photoresist on PCB panels directly from Gerber or ODB++ files, eliminating intermediate photoplots or films.

LDI expose machine

Definition & Overview Laser Direct Imaging (LDI) is an advanced PCB manufacturing technology that uses high-precision lasers to directly expose photoresist-coated boards without

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xTool is the industry-leading brand for digital fabrication. Find top-quality innovative tools, including (CO2, fiber, diode) laser cutters, engravers, welders, and DTF

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