HeatSign
The Science of Marking

Empower Precision
Inspire Creation

10W Handheld Blue Diode Laser

HS-FL10B

www.heatsign.com

Overview of the HeatSign Handheld Blue Diode Laser Engraver

The HS-FL10B is a compact, battery-powered 10 W blue diode laser engraver with an integrated touchscreen, no external PC required. Weighing only 2.7 kg, it ’ s easy to carry and marks plastics, ceramics, coated metals, leather, and wood with precision across a 50 × 50 mm field — perfect for on-site marking anywhere.

Dual-Light Hybrid:
10W Blue + 2W Infrared Power.

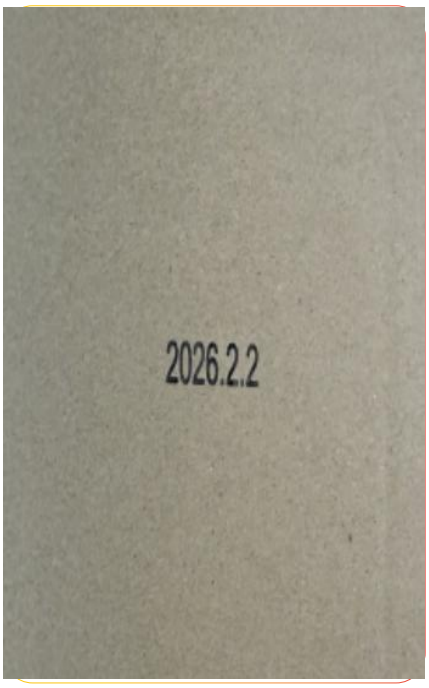
Lightweight (2.7kg)
Handheld and easy to carry

Cordless Use
Built-in battery for on-site work

Touchscreen Control
No PC needed, ready to use

Air-Cooled
Maintenance-free, no water required

Multi-Format Marking
Text, logos, QR codes, barcodes



At HeatSign, we’re not just offering a product, but a commitment to precision and innovation in marking solutions.

Features & Benefits

All-in-One Design

Built-in touchscreen control, no external PC needed.

Ultra-Portable

Weighs only 2.7 kg for true one-hand operation anywhere.

Battery-Powered Freedom

Mark parts on-site without power cables.

Versatile Marking

Works on plastics, ceramics, coated metals, leather, and wood.

High-Contrast Results

10 W blue laser delivers sharp, clear, permanent marks.

Fast & Maintenance-Free

No consumables, instant start-up, easy to use.

Industrial Reliability

Built with durable components for continuous professional use.

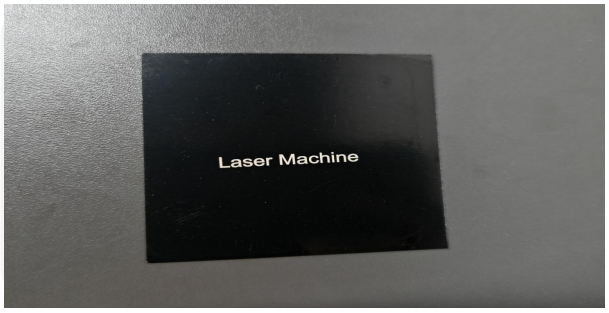
These features offer a reliable, efficient, and cost-effective solution for your marking and engraving needs.

Machine Specification

Laser Type	Hybrid: 455nm Blue Diode (10W) + 1064nm Infrared (2W)
Power Consumption	<90W
Control Software	HeatSign Touch Screen Control software
Brand Name	HeatSign
Light Source Type	455nm
Laser Working Mode	Pulse
Scanning Range	50*50mm
Warranty of core components	1 year
Weight	2.7kg
Operating Humidity	<80%
Frequency(kHz)	1064-30khz1455-CW
Power Adjustment Range (%)	25-100(gradually adjustable)
Cooling Method	Air-cooled
Pulse Width (ns)	455-CW
Operating Temperature	0-40

Machine Applications

The HS-FL10B is a portable, all-in-one blue diode laser engraver designed for fast, high-contrast marking on plastics, ceramics, coated metals, wood, and leather — perfect for on-site and flexible industrial applications.



- **Plastic Housings:** Mark logos, serial numbers, and QR codes.
- **Wooden Crates & Pallets:** Add shipping info or traceability marks.
- **Ceramic Parts:** Engrave product IDs and decorative patterns.
- **Coated Metal Tags:** Create durable nameplates and labels.
- **Leather Goods:** Personalize tools, belts, or industrial covers.
- **Electronic Components:** Mark connectors, cases, and switches.
- **Maintenance Equipment:** Label installed assets and spare parts.
- **Composite Panels:** Add brand or compliance markings on-site.

Accessories and Consumables

Acrylic base is adapted for small Part Marking

Power Adapter

Alcohol Swabs

Protective Glasses

USB Flash Drive

Hexagonal Wrench

This machine is a versatile tool that caters to diverse marking and engraving needs across industries.

HeatSign

The Science of Marking

Tel: +86-85170177
Cell No: +86-15061477073
Email: info@heatsign.com
Address: Room No. 903, Building D1, No.999
GaoLang East
Road, Binhu District, Wuxi City, Jiangsu, China
www.heatsign.com