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› [LONGER RAY5 10W Laser Engraver and Cutter with Enclosure User Manual](#)

Longer RAY5 10W

LONGER RAY5 10W Laser Engraver and Cutter with Enclosure User Manual

Model: RAY5 10W

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your LONGER RAY5 10W Laser Engraver and Cutter, along with its protective enclosure. Please read this manual thoroughly before assembly and use to ensure proper functionality and safety.



Image 1.1: The LONGER RAY5 10W Laser Engraver and Cutter shown alongside its protective enclosure, fan, and exhaust hose.

Various engraved and cut samples are displayed below the engraver, including a phone case, a leather bracelet, rings, a small wooden house, and a glass jar.

Package Contents

Verify that all components are present in your package:

- LONGER RAY5 10W Laser Engraver
- Protective Laser Engraver Enclosure
- Exhaust Fan and Hose

- Power Adapter and Cables
- USB Cable
- Safety Goggles
- Material Samples for Testing
- User Manual (this document)
- Assembly Tools

2. SAFETY GUIDELINES

WARNING: Laser radiation can cause eye damage and skin burns. Always wear appropriate safety goggles and operate the machine in a well-ventilated area.

- **Eye Protection:** Always wear the provided safety goggles when the laser is active. Never look directly at the laser beam.
- **Ventilation:** Operate the laser engraver in a well-ventilated area or use the provided enclosure with its exhaust system to remove smoke and fumes.
- **Fire Hazard:** Laser engraving and cutting can generate heat and sparks, potentially causing fires. Do not leave the machine unattended during operation. Keep a fire extinguisher nearby.
- **Material Compatibility:** Only engrave or cut materials specified as safe for laser processing. Avoid materials that produce toxic fumes or are highly flammable (e.g., PVC, certain plastics).
- **Children and Pets:** Keep children and pets away from the operating area.
- **Emergency Stop:** Familiarize yourself with the location of the emergency stop button or power switch to quickly shut down the machine if necessary.
- **Stable Surface:** Place the engraver on a stable, level, and non-flammable surface.

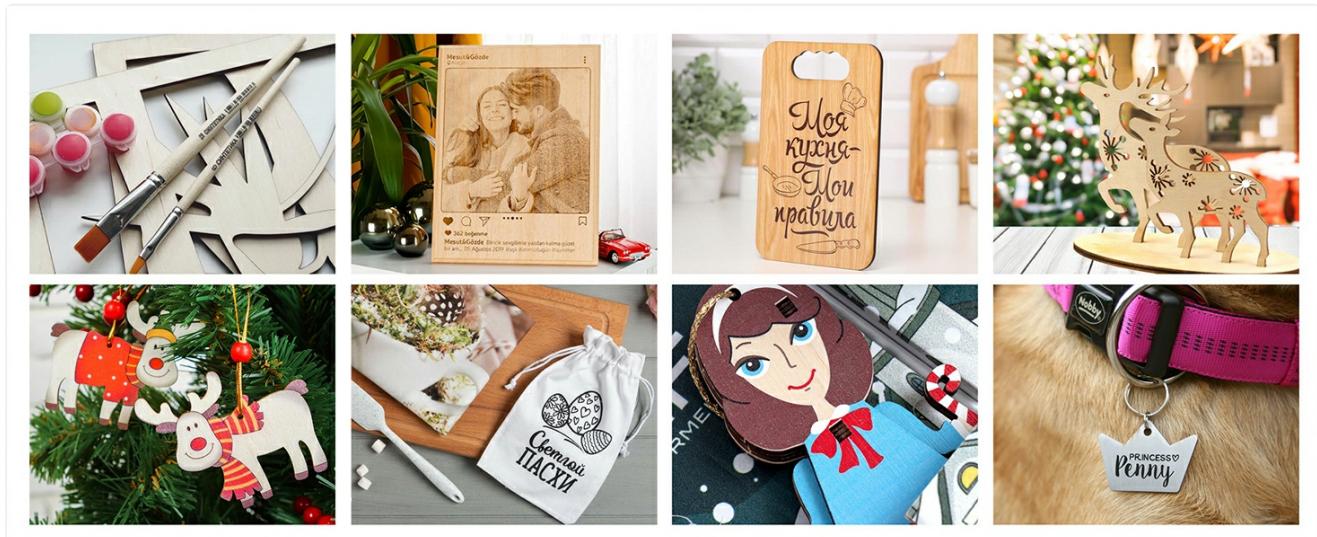


Image 2.1: This image illustrates two key safety features. On the left, a laser engraver is shown with safety goggles placed over the laser path, indicating 'Eyes Protection' and the recommendation to wear protective glasses to avoid eye irritation. On the right, the laser engraver is shown with a flame detection icon, indicating 'Thermal Protection' and the auto-shutdown feature if a flame is detected or the engraving area overheats.



Image 2.2: This image highlights two additional safety mechanisms. On the left, a close-up of the laser engraver's frame shows a 'Limit Switch' designed to prevent abrasion caused by collision between equipment and the edge of the working area. On the right, the engraver is shown with a hand icon, indicating 'Movement Protection' which automatically shuts down the machine if it detects movement during operation.

3. PRODUCT OVERVIEW

LONGER RAY5 10W Laser Engraver

The LONGER RAY5 10W is a high-power diode laser engraver and cutter featuring a compressed laser spot for fine detail and efficient cutting. It includes a 32-bit motherboard for enhanced performance and supports offline control via an app.



Image 3.1: The LONGER RAY5 10W Laser Engraver is displayed with its control screen and several examples of engraved items, including a wooden phone case, a leather bracelet, metal rings, a small wooden house, and a glass jar, demonstrating its versatility across various materials.

Laser Engraver Enclosure with Vent

The included enclosure is designed to enhance safety and improve the working environment by containing smoke, odors, and reducing noise. It features an integrated exhaust system for effective ventilation.

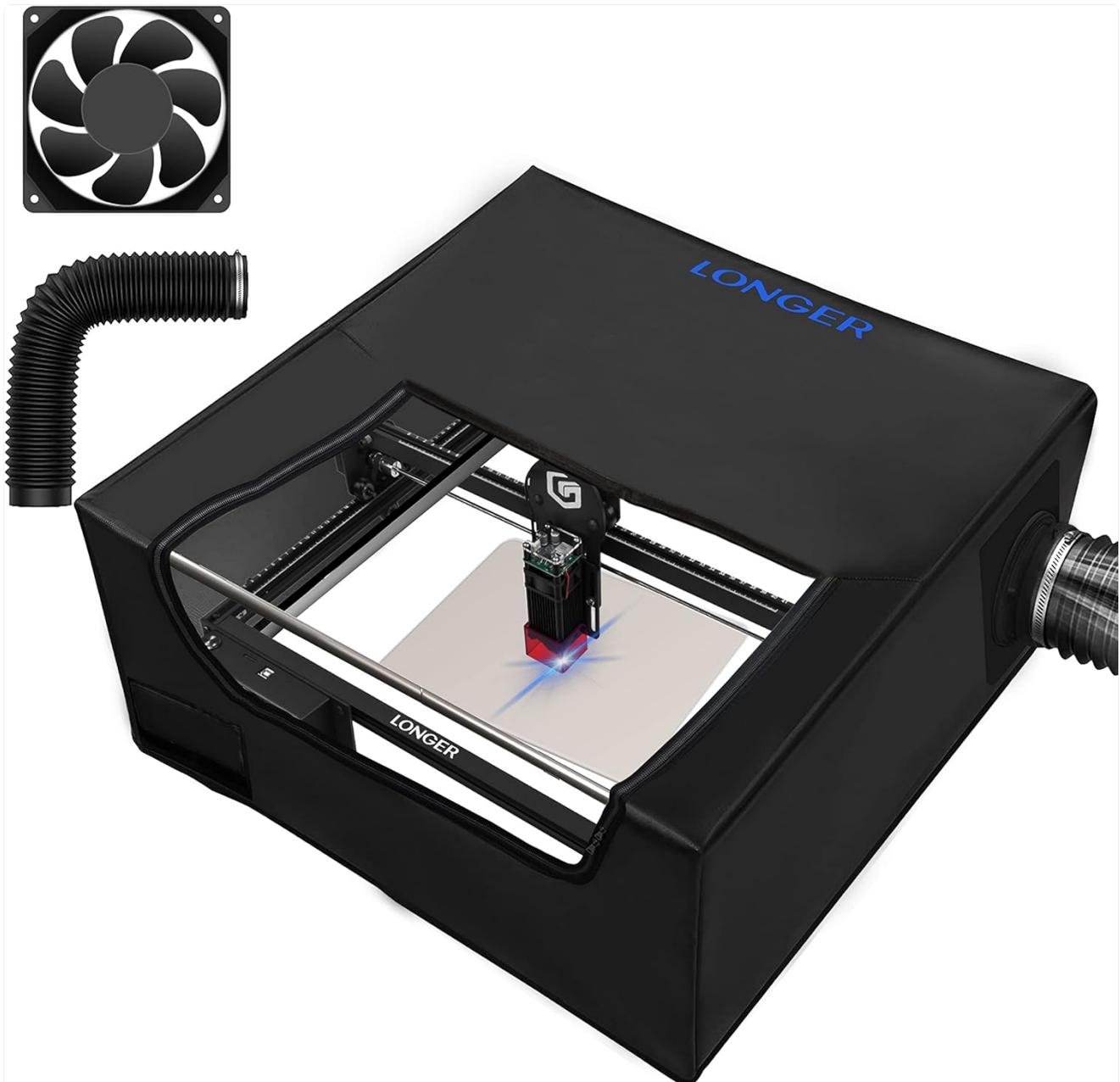


Image 3.2: The black protective enclosure for the laser engraver is shown with a visible exhaust fan and flexible hose. The enclosure features a transparent viewing window, allowing observation of the engraving process while providing protection.

4. SETUP

4.1. Assembly of the Laser Engraver

1. Unpack all components and verify against the package contents list.
2. Follow the detailed assembly instructions provided in the separate assembly guide to construct the laser engraver frame.
3. Install the laser module onto the gantry, ensuring it is securely fastened.
4. Connect all necessary cables (power, USB, motor cables) according to the diagrams.

4.2. Enclosure Setup

1. Place the assembled laser engraver inside the protective enclosure.
2. Attach the exhaust fan to the designated port on the enclosure.

3. Connect the flexible exhaust hose to the fan and route it to an outdoor vent or a suitable air filtration system. Ensure the hose is free of kinks.
4. Plug in the power adapter for the exhaust fan.



Image 4.1: This image displays the laser engraver enclosure with its 'Efficient Exhaust System'. The enclosure has dimensions of approximately 27.5 inches in width and depth, and 13 inches in height. A flexible exhaust hose, approximately 4 inches in diameter, is connected to the side of the enclosure, leading to an external fan, illustrating how smoke and odors are vented away from the workspace.

5. OPERATING INSTRUCTIONS

5.1. Software Installation and Connection

The LONGER RAY5 10W is compatible with popular laser control software such as LaserGRBL and LightBurn. It also supports offline control via the MKSLaser App.

- **PC Connection:** Download and install LaserGRBL or LightBurn from their official websites. Connect the engraver to your computer via USB.

- **Wi-Fi/App Control:** For app control, ensure the engraver and your mobile device are connected to the same Wi-Fi network. Download the MKSLaser App and follow the in-app instructions for connection.
- **TF Card:** You can also load G-code files directly onto a TF card and insert it into the engraver for offline operation.

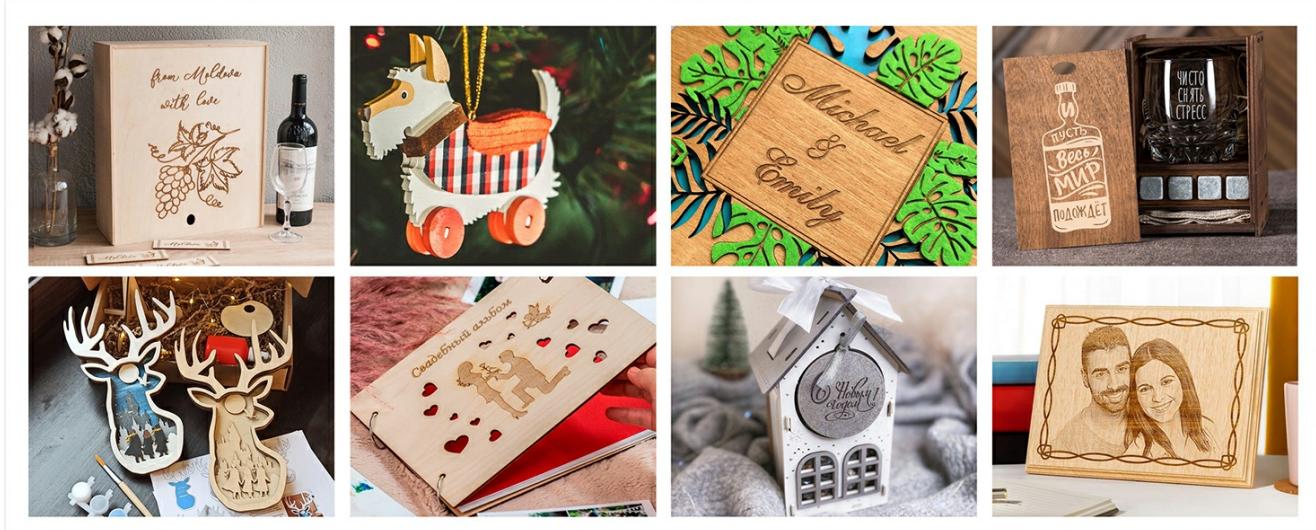


Image 5.1: This image illustrates the wide compatibility of the LONGER RAY5 10W laser engraver. It shows icons for Wi-Fi, USB Cable, APP, and TF Card, indicating various connection methods. Below these, logos for LaserGRBL and LightBurn are displayed, highlighting software compatibility. On the right, a laptop, tablet, and smartphone screens show the MKSLaser App interface and design software, demonstrating how the device can be controlled and operated.

5.2. Preparing for Engraving/Cutting

1. **Material Placement:** Place your material securely on the working surface. Ensure it is flat and does not move during operation.
2. **Focus Adjustment:** Adjust the laser focus according to the material thickness. Refer to your software or the engraver's touch screen for guidance.
3. **Design Loading:** Load your design file (JPG, PNG, BMP, G-code, SVG, GIF, NC, GC) into the software or via TF card.
4. **Parameter Settings:** Set appropriate laser power, speed, and passes based on the material type and desired effect. Start with lower settings and adjust as needed.

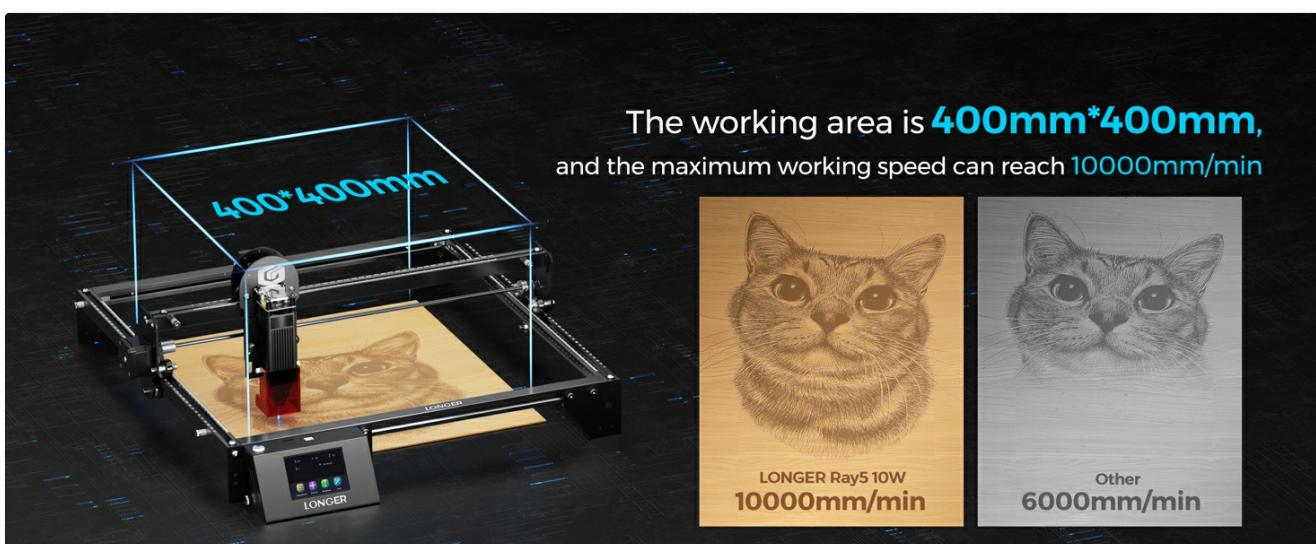


Image 5.2: This image highlights the 3.5-inch touch screen interface of the LONGER RAY5 10W laser engraver, designed for simple operation. Various screen displays are shown, including controls for laser power (1% to 100%), movement adjustments (X, Y, Z axes), and file selection, demonstrating the intuitive user interface.

5.3. Starting Operation

1. Ensure all safety precautions are observed, including wearing safety goggles and activating the exhaust system.
2. Initiate the engraving or cutting process through your chosen software or the engraver's control panel.
3. Monitor the process closely. If any issues arise, use the emergency stop or power switch immediately.

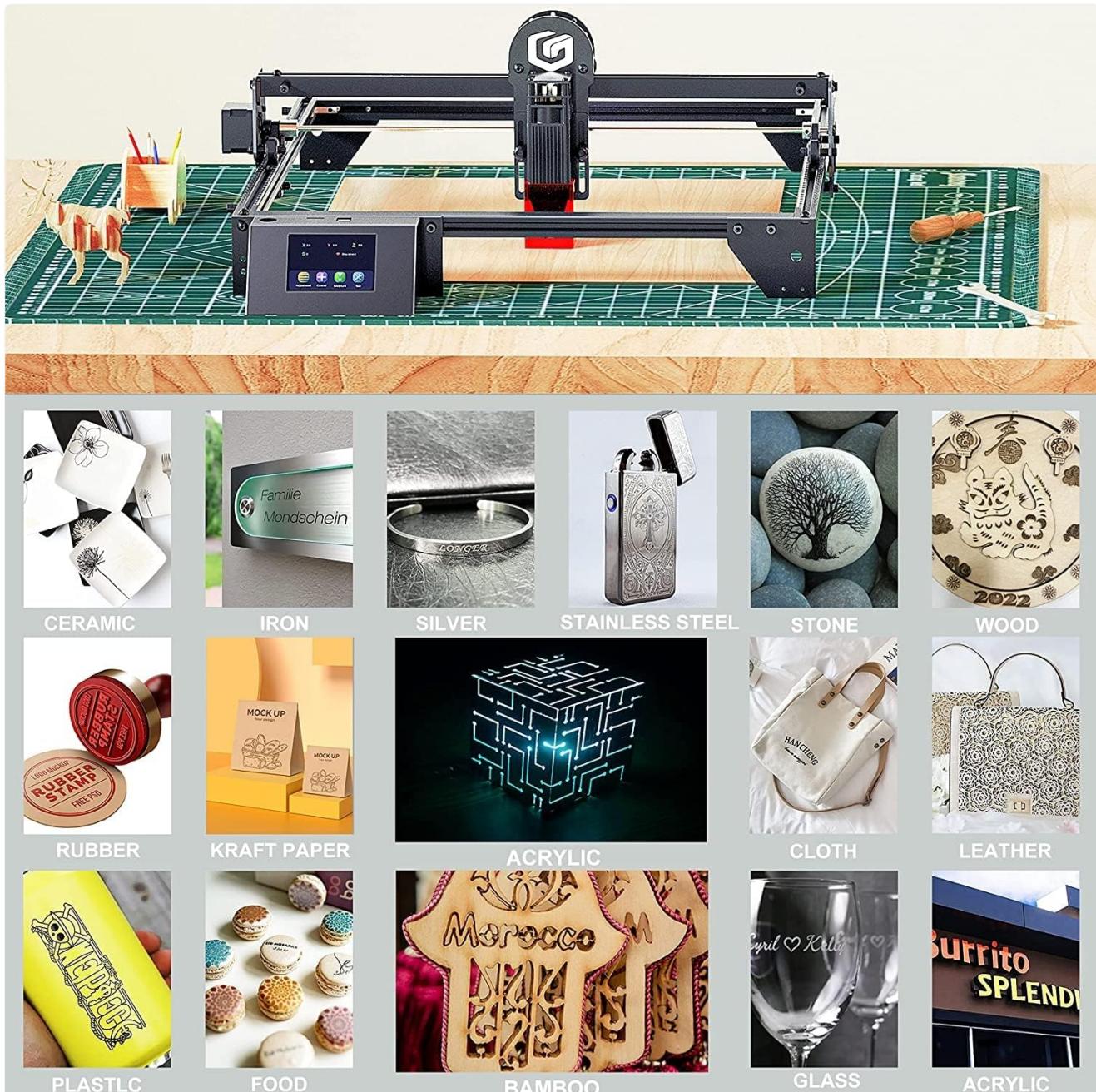


Image 5.3: This image displays a grid of various materials that can be processed by the LONGER RAY5 10W laser engraver. Examples include ceramic, iron, silver, stainless steel, stone, wood, rubber, kraft paper, acrylic, cloth, leather, plastic, food, bamboo, and glass, showcasing the wide range of applications for both engraving and cutting.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your laser engraver.

- **Lens Cleaning:** Periodically clean the laser lens with a soft, lint-free cloth and lens cleaning solution. A dirty lens can reduce laser power and accuracy.

- **Rail Cleaning:** Keep the guide rails and wheels free of dust and debris. Use a soft brush or cloth. Lubricate moving parts as recommended by the manufacturer.
- **Exhaust System:** Regularly check and clean the exhaust fan and hose to ensure efficient smoke and fume extraction.
- **Firmware Updates:** Check the manufacturer's website for any available firmware updates to improve performance or add new features.

7. TROUBLESHOOTING

This section addresses common issues you might encounter.

- **No Laser Output:**

- Check if the laser module is properly connected and powered.
- Ensure safety features (e.g., limit switches, movement sensor) are not triggered.
- Verify laser power settings in your software.

- **Poor Engraving/Cutting Quality:**

- Adjust laser focus.
- Clean the laser lens.
- Experiment with different power and speed settings for your material.
- Ensure the material is flat and securely placed.

- **Machine Not Connecting to Software:**

- Check USB cable connection.
- Install necessary drivers for the engraver.
- Ensure correct COM port is selected in the software.
- For Wi-Fi, confirm both devices are on the same network.

- **Excessive Smoke/Odor:**

- Verify the exhaust fan is operating correctly and the hose is properly vented.
- Ensure the enclosure is sealed.
- Check material compatibility; some materials produce more fumes.

For further assistance, refer to the official Longer support resources.

8. SPECIFICATIONS

Feature	Specification
Laser Output Power	10W
Engraving Area	400mm x 400mm (approx. 15.7" x 15.7")
Engraving Speed (Max)	10000mm/min
Engraving Accuracy	0.01mm
Laser Spot Size	0.06mm x 0.06mm (Compressed)

Feature	Specification
Motherboard	32-bit
Control Methods	USB, Wi-Fi (App), TF Card
Compatible Software	LaserGRBL, LightBurn, MKSLaser App
Supported File Formats	JPG, PNG, BMP, G-code, SVG, GIF, NC, GC
Enclosure Dimensions (Approx.)	27.5" L x 27.5" W x 13" H
Enclosure Exhaust Hose Diameter	4"

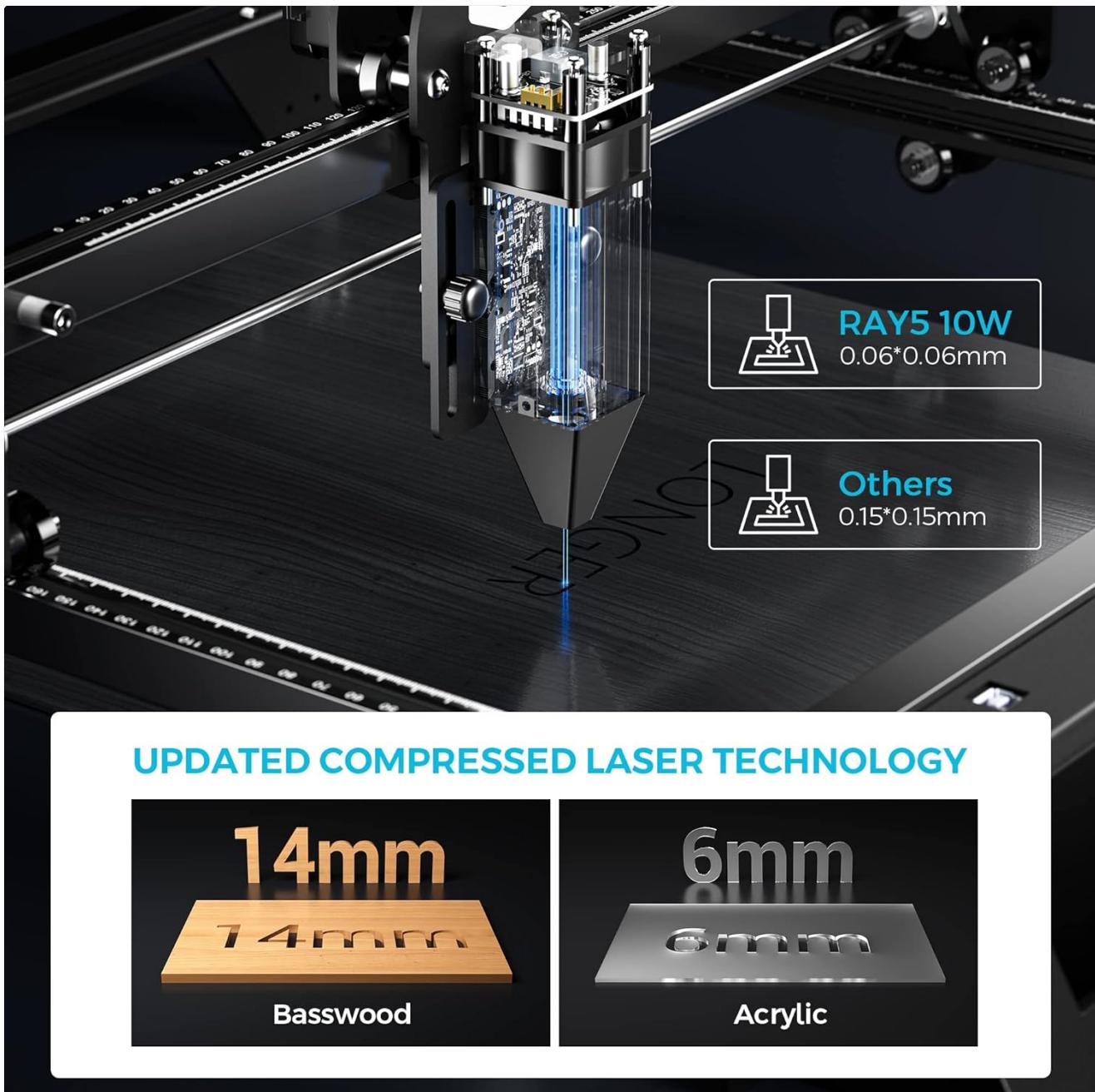


Image 8.1: This image illustrates the 'Updated Compressed Laser Technology' of the RAY5 10W, highlighting its small spot size of 0.06x0.06mm compared to others at 0.15x0.15mm. It also demonstrates cutting capabilities: 14mm Basswood and 6mm Acrylic, showcasing the precision and power of the laser.

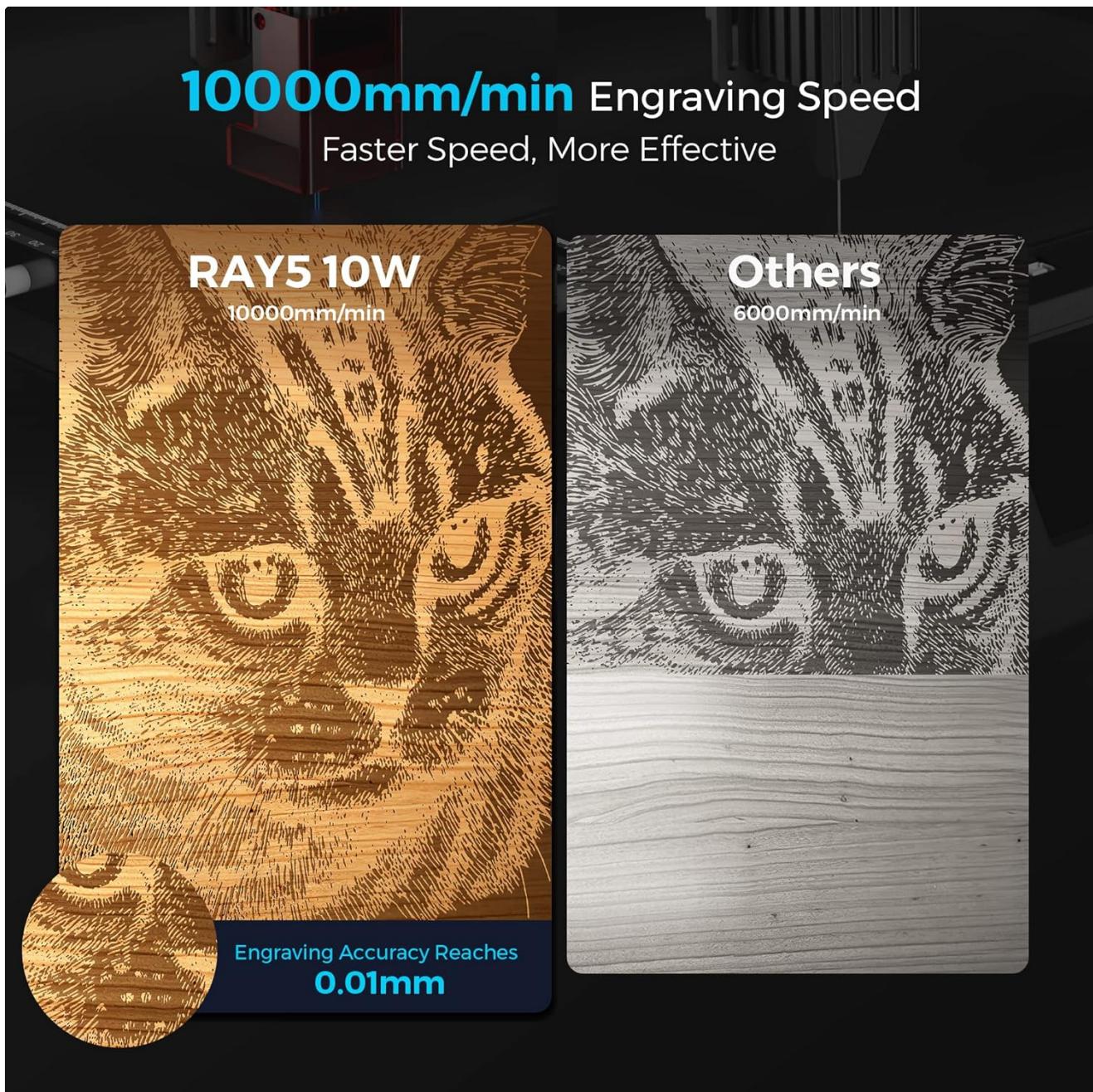


Image 8.2: This image compares the engraving speed and accuracy of the RAY5 10W (left) with other models (right). The RAY5 10W achieves 10000mm/min engraving speed with an accuracy of 0.01mm, producing a detailed cat portrait. The 'Others' section shows a less detailed engraving at 6000mm/min, emphasizing the superior performance of the RAY5 10W.

9. WARRANTY AND SUPPORT

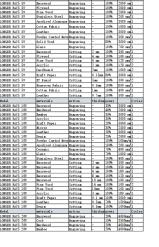
LONGER products are designed for reliability and performance. For warranty information, please refer to the warranty card included with your product or visit the official Longer website.

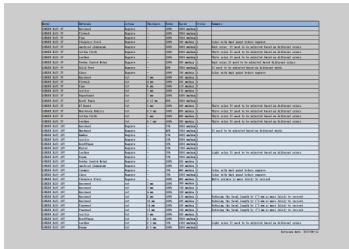
If you encounter any issues or require technical assistance, please contact Longer customer support through their official channels. When contacting support, please have your product model (RAY5 10W) and purchase information ready.

Online Resources:

- Official Longer Website: www.longer3d.com
- Support Email: Refer to your product documentation

Related Documents - RAY5 10W

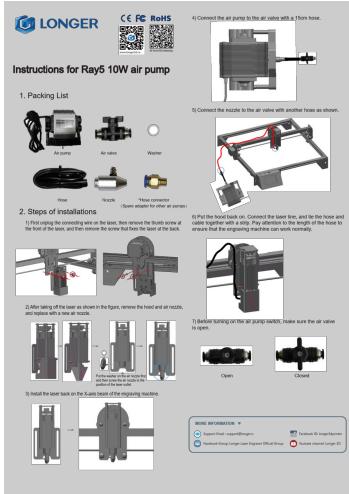
	<p><u>LONGER RAY5 Laser Engraver User Manual</u></p> <p>Comprehensive user manual for the LONGER RAY5 Laser Engraver, covering safety, operation, specifications, software setup (LaserGRBL, LightBurn), and troubleshooting for models RAY5 5W and RAY5 10W.</p>
	<p><u>LONGER RAY5 Laser Cutter & Engraver: Material Settings Guide</u></p> <p>Comprehensive material settings for LONGER RAY5 series laser cutters and engravers, including models 5W, 10W, and 20W. This guide provides recommended engraving and cutting parameters such as thickness, power, and cycles for a wide range of materials.</p>
	<p><u>LONGER RAY5 Laser Engraver Material Settings Guide</u></p> <p>A comprehensive guide to material settings for LONGER RAY5 5W and 10W laser engravers, detailing optimal power, speed, and cycle settings for engraving and cutting various materials.</p>
	<p><u>LONGER RAY5 Laser Engraver User Manual</u></p> <p>Comprehensive user manual for the LONGER RAY5 Laser Engraver, covering safety precautions, product specifications, operation, software usage (LaserGRBL, LightBurn), FAQ, and warranty information.</p>
	<p><u>LONGER RAY5 5W/10W Quick Install Limit Switch Instructions</u></p> <p>A concise guide for installing limit switches on the LONGER RAY5 5W/10W laser engraver, including a packing list, step-by-step installation, and firmware upgrade instructions.</p>
	<p><u>LONGER RAY5 Laser Engraver Quick Start Guide</u></p> <p>This guide provides essential information for setting up and safely operating the LONGER RAY5 laser engraver. It includes detailed installation steps, important safety warnings regarding laser radiation and fire hazards, a list of included components, and an introduction to the machine's parts.</p>



[LONGER RAY5 Laser Engraver Material Settings Guide](#)

A comprehensive guide to material settings for LONGER RAY5 5W and 10W laser engravers, detailing optimal power, speed, and cycle settings for engraving and cutting various materials.

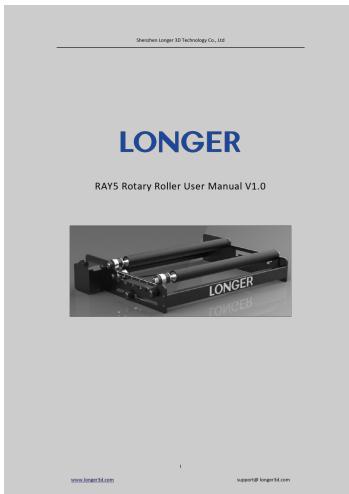
lang:en score:42 filesize: 39.74 K page_count: 1 document date: 2022-06-11



[LONGER Ray5 10W Air Pump Installation Instructions](#)

Step-by-step guide for installing the LONGER Ray5 10W air pump accessory for laser engravers. Includes packing list and assembly instructions.

lang:en score:35 filesize: 1.23 M page_count: 1 document date: 2024-01-05



[LONGER RAY5 Rotary Roller User Manual V1.0](#)

This user manual provides comprehensive instructions for the LONGER RAY5 Rotary Roller, an accessory for laser engravers. It covers essential safety statements, disclaimers, software installation for GRBL and LightBurn, detailed steps for connecting and configuring the roller, adjusting its spacing for different object diameters, and important precautions for safe and effective operation. Includes guidance on motor cable connections and troubleshooting.

lang:en score:27 filesize: 1.15 M page_count: 14 document date: 2022-08-19



[LONGER RAY5 Laser Engraver User Manual](#)

Comprehensive user manual for the LONGER RAY5 Laser Engraver, detailing safety precautions, product specifications, machine operation (including touch screen, Wi-Fi control, LaserGRBL, and LightBurn software), assembly, and firmware upgrades.

lang:en score:24 filesize: 2.41 M page_count: 31 document date: 2023-03-17

Model	Material	Action	Thickness	Power	Cycles
LONGER RAY5 5W	Brass	Engraving	—	100%	2000 ms
LONGER RAY5 5W	Plated	Engraving	—	100%	2000 ms
LONGER RAY5 5W	Aluminum	Engraving	—	100%	2000 ms
LONGER RAY5 5W	Stainless Steel	Engraving	—	100%	2000 ms
LONGER RAY5 5W	Brass	Cutting	0.5 mm	100%	1000 ms
LONGER RAY5 5W	Aluminum	Cutting	0.5 mm	100%	1000 ms
LONGER RAY5 5W	Stainless Steel	Cutting	0.5 mm	100%	1000 ms
LONGER RAY5 5W	Brass	Cutting	1 mm	100%	1000 ms
LONGER RAY5 5W	Aluminum	Cutting	1 mm	100%	1000 ms
LONGER RAY5 5W	Stainless Steel	Cutting	1 mm	100%	1000 ms
LONGER RAY5 5W	Brass	Engraving	—	100%	100 ms
LONGER RAY5 5W	Aluminum	Engraving	—	100%	100 ms
LONGER RAY5 5W	Stainless Steel	Engraving	—	100%	100 ms
LONGER RAY5 5W	Brass	Cutting	4 mm	100%	100 ms
LONGER RAY5 5W	Aluminum	Cutting	4 mm	100%	100 ms
LONGER RAY5 5W	Stainless Steel	Cutting	4 mm	100%	100 ms
LONGER RAY5 5W	Brass	Cutting	8 mm	100%	100 ms
LONGER RAY5 5W	Aluminum	Cutting	8 mm	100%	100 ms
LONGER RAY5 5W	Stainless Steel	Cutting	8 mm	100%	100 ms
LONGER RAY5 5W	Brass	Engraving	—	100%	100 ms
LONGER RAY5 5W	Aluminum	Engraving	—	100%	100 ms
LONGER RAY5 5W	Stainless Steel	Engraving	—	100%	100 ms
LONGER RAY5 10W	Brass	Engraving	—	40%	2000 ms
LONGER RAY5 10W	Aluminum	Engraving	—	40%	2000 ms
LONGER RAY5 10W	Stainless Steel	Engraving	—	40%	2000 ms
LONGER RAY5 10W	Brass	Cutting	4 mm	100%	100 ms
LONGER RAY5 10W	Aluminum	Cutting	4 mm	100%	100 ms
LONGER RAY5 10W	Stainless Steel	Cutting	4 mm	100%	100 ms
LONGER RAY5 10W	Brass	Cutting	8 mm	100%	100 ms
LONGER RAY5 10W	Aluminum	Cutting	8 mm	100%	100 ms
LONGER RAY5 10W	Stainless Steel	Cutting	8 mm	100%	100 ms
LONGER RAY5 10W	Brass	Engraving	—	100%	100 ms
LONGER RAY5 10W	Aluminum	Engraving	—	100%	100 ms
LONGER RAY5 10W	Stainless Steel	Engraving	—	100%	100 ms
LONGER RAY5 20W	Brass	Engraving	—	100%	100 ms
LONGER RAY5 20W	Aluminum	Engraving	—	100%	100 ms
LONGER RAY5 20W	Stainless Steel	Engraving	—	100%	100 ms
LONGER RAY5 20W	Brass	Cutting	2 mm	100%	100 ms
LONGER RAY5 20W	Aluminum	Cutting	2 mm	100%	100 ms
LONGER RAY5 20W	Stainless Steel	Cutting	2 mm	100%	100 ms
LONGER RAY5 20W	Brass	Cutting	4 mm	100%	100 ms
LONGER RAY5 20W	Aluminum	Cutting	4 mm	100%	100 ms
LONGER RAY5 20W	Stainless Steel	Cutting	4 mm	100%	100 ms
LONGER RAY5 20W	Brass	Engraving	—	100%	100 ms
LONGER RAY5 20W	Aluminum	Engraving	—	100%	100 ms
LONGER RAY5 20W	Stainless Steel	Engraving	—	100%	100 ms

[LONGER RAY5 Laser Cutter & Engraver: Material Settings Guide](#)

Comprehensive material settings for LONGER RAY5 series laser cutters and engravers, including models 5W, 10W, and 20W. This guide provides recommended engraving and cutting parameters such as thickness, power, and cycles for a wide range of materials.

lang:en score:23 filesize: 47.54 K page_count: 2 document date: 2025-02-20

amazon.com

Final Details for Order #113-1357828-2169012

Order Placed: April 10, 2023

Amazon.com order number: 113-1357828-2169012

Order Total: \$465.16

Shipped on April 10, 2023

Items Ordered

1 item: **LGT Longer RAY5 10W Laser Engraver, 60W High Accuracy Cutting and Engraving, 0.06 * 0.06mm Laser Spot, 3.5 Tou...**

Price: \$50.99

Shipping Address: Amy Bruger 1040 BRAHWICODS OWNERSHIP, KY 42320-7550 United States

Shipping Speed: FREE: Prime Delivery

Total for This Shipment: \$74.19

Shipped on April 11, 2023

Items Ordered

1 item: **LGT Longer RAY5 10W Laser Engraver, 60W High Accuracy Cutting and Engraving, 0.06 * 0.06mm Laser Spot, 3.5 Tou...**

Price: \$50.99

Shipping Address: Amy Bruger 1040 BRAHWICODS OWNERSHIP, KY 42320-7550 United States

Shipping Speed: FREE: Prime Delivery

Total for This Shipment: \$74.19

Payment Information

Payment Method: Credit Card (Excluded)

Shipping & Handling: \$0.00

Year-Over-Year Savings: \$0.00

Total before tax: \$69.99

Sales Tax: \$1.00

Total for This Shipment: \$70.99

Billing Address: Amy Bruger 1040 BRAHWICODS OWNERSHIP, KY 42320-7550 United States

Billing Speed: FREE: Prime Delivery

Total for This Shipment: \$70.99

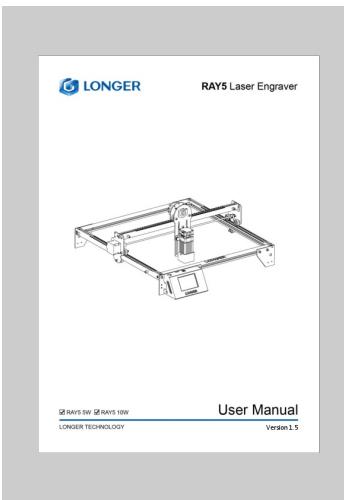
[\[pdf\] Accessories](#)

order document longer ray quick cep s3 amazonaws integration channel com quickcem core attachment b6cc99bcdf1e4905b314db9606ec7d23 |||

Final Details for Order #113-1357828-2169012 Order Placed: April 10, 2023

Amazon.com order number: 1 ... --- Total for This Shipment: 74.19 ----- Shipped on April 11, 2023 Items Ordered 1 of: **LGT Longer RAY5 10W Laser Engraver, 60W High Accuracy Cutting and Engraving, 0.06 * 0.06mm Laser Spot, 3.5 Tou...**

lang:en score:20 filesize: 30.72 K page_count: 2 document date: 2023-04-11



[LONGER RAY5 Laser Engraver User Manual](#)

Comprehensive user manual for the LONGER RAY5 Laser Engraver, covering safety, operation, specifications, software setup (LaserGRBL, LightBurn), and troubleshooting for models RAY5 5W and RAY5 10W.

lang:en score:19 filesize: 4.34 M page_count: 51 document date: 2024-01-05

Product Similarity Declaration

Product name: Longer
Model name: RAY5, RAY5 Pro, RAY5 5W, RAY5 10W, RAY5 20W, RAY5 30W, RAY5 Pro, RAY5 Pro 10W, RAY5 Pro 20W, RAY5 Pro 30W, RAY5 Pro 40W, Laser B1, Laser B1 10W, Laser B1 20W, Laser B1 30W, Laser B1 40W, Laser S1, Laser S1 10W, Laser S1 20W, Laser S1 30W, Laser S1 40W, Laser S1 40W, RAY5 S, Laser S1 24W, Laser S1 36W, Laser S1 48W, RAY5 mini, RAY5 miniS, RAY5 miniS, RAY5 miniBox, RayBox, RAY6, RAY2, RAY3, RAY4

FCID: 280R1-RAY

We (Shenzhen Longer Technology Co., Ltd.) hereby state that all the models have the same electrical technical (including the same software parameter and hardware design (i.e., circuit design, PCB layout, RF module/circuit, antenna type(s) and antenna location, components on PCB, etc.)), same mechanical structure and design (including product enclosure, materials, etc.), the only difference is the model name. Laser power, size.

Signature:
Jiajun Han
Name: Jiajun Han
Title: Engineer
Date: Apr. 17, 2025

Product Similarity Declaration - Shenzhen Longer Technology Engraver Models

Declaration by Shenzhen Longer Technology Co., Ltd. confirming product similarity across various Engraver models (RAY5 series, Laser B1, Laser S1, etc.) based on identical hardware and software design.

lang:en score:19 filesize: 80.85 K page_count: 1 document date: 2025-04-17



LONGER RAY5 Laser Engraver User Manual: Setup, Operation, and Safety Guide

This user manual provides comprehensive instructions for the LONGER RAY5 Laser Engraver, covering setup, operation, software installation (LightBurn, LaserGRBL), safety precautions, troubleshooting, and warranty information.

lang:en score:18 filesize: 3.37 M page_count: 47 document date: 2021-10-26

Amazon.com Order ID: 07698047235462

Final Details for Order #112-0769804-7235462
Print this page for your records.

Order Placed: March 4, 2023
Shipping Method: Standard
Order Total: \$582.84

Shipped on March 5, 2023

Items Ordered

1 of Longer Cutting Engraving Machine Air Assist Kit with Air Pump, Remove Smoke and Dust, for RAY5 20W/30W Laser Engraver	\$99.99
1 of Longer RAY5 30W Laser Engraver	\$389.99
1 of Longer RAY5 30W Laser Engraver	\$389.99
1 of ALUM, 50 Pack Metal Business Card Blanks & Aluminum Cards Name Card for Customer Engraving DIY Gift Cards VR Card (50x, 80x, 100x)	\$11.59
1 of PORTWORLD Recyclable Laser Bed - 11.8 x 7.87 x 0.37 inch Honeycomb Working Table with Aluminum Plate for Most Laser Engraving Machine, Fast Heat Dissipation & Stable	\$26.99
1 of Longer RAY5 30W Laser Engraver	\$389.99

Condition: New

Shipping Address:
162 CLINTON ST
NEW YORK, NY 10010
United States

Shipping Speed:
Delivery in fewer trips to your address

Shipped on March 5, 2023

Items Ordered

1 of Longer RAY5 Laser Engraver 60W, Laser Engraver 35W Output Power, 32-Bit Host Board, Compressed Spindle, App Offline Control, ODF Engraver Tool for Engraving, Carving, Cutting, Plotting, Drawing, and More	\$399.99
--	----------

Condition: New

Shipping Address:
162 CLINTON ST
NEW YORK, NY 10010
United States

https://www.amazon.com/gp/reviews/-/07698047235462

[pdf]

Amazon Order 112 0769804 7235462 quick cep s3 amazonaws integration channel com quickcem core attachment e37f0447db034427896f0461496e905f |||

9/24/23, 12:16 PM Amazon.com - Order 112-0769804-7235462 Final Details for Order #112-0769804-7235462 Print this page for your records. Order Placed: March 4, 2023 Amazon.com order number: 112-0769804-7235462 Order Total: 582.84 Shipped on March 5, 2023 Items Ordered Price 1 of: Longer Cutting...

lang:en score:15 filesize: 128.46 K page_count: 2 document date: 2023-09-24

Machine Operation**(1) Calibrating Laser**

- a) Place the machine on a flat table and make sure that the machine is stable and will not shake.
- b) Place the wood board to be engraved or cut under the laser
- c) Loosen the two thumb screws on the front of laser head by hand. Then place the focusing column vertically on the bottom of the laser head form the rear side, and manually lift the laser head so that the bottom of the rear side of the laser is close to the upper surface of the calibration column.
- d) Tighten the two laser thumbscrews, then remove the focusing column.

[pdf] Documentation

Product Documentation Longer RAY5 10W Laser Engraver 60W Higher Accuracy Engraving Machine

Compreseed Spot 0.06x0.06mm Cutter for Wood and Metal Dark Acrylic Glass Leather Cutting Area 15.7 x 15.7 B1K3 OyYCL m media amazon images |||

Machine Operation 1 Calibrating Laser a Place the machine on a flat table and make sure that the machine is stable and will not shake. b Place the wood board to be engraved or cut under the laser c Loosen the two thumb screws on the front of laser head by hand. Then place the focusing column ve...

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Product Information**(1) Specifications**

Machine	
Machine Model	RAY5
Working Area	400 x 400 mm (15.75 x 15.75 in)
Max Engraving Speed	10000 mm/min
Power Adapter Input Voltage (AC)	110-240 V, 50-60 Hz
Power Adapter Output Voltage (DC)	12 V
Power Max Consumption	60 W
Packaging Size	62 x 30 x 31 cm (24.4 x 11.8 x 12 in)
Packaging Weight	4.70 kg
Machine Size Assembled	61 x 67 x 20 cm (24.0 x 26.4 x 7.9 in)
Operating Temperature	-20~50°C
Laser Module(DiY)	
Laser Module Model	LC20F30
Laser Technology	Single Diode Laser with FAC
Wavelength	450-460 nm
Max Power Input	12 V 2 A
Optical Power Output	5~5.5 W
Focus Type	Fixed Focus – 30 mm focal length
Dot Size at Optimal Focus	0.08 x 0.08 mm
Laser Class	FDA Class IV, or Class 4 IEC standard
Applicable Material	
Laser Module (19W)	
Laser Module Model	LC40F50
Laser Technology	Double Diode Laser with FAC
Wavelength	450~460 nm
Max Power Input	12 V 3.2 A

[pdf] Specifications

Specification Sheet Longer RAY5 10W Laser Engraver 60W Higher Accuracy Engraving Machine

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lang:en score:12 filesize: 180.97 K page_count: 2 document date: 2024-01-05