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› AlgoLaser DIY KIT MK2 Laser Engraver Instruction Manual

AlgoLaser MK2 10W

AlgoLaser DIY KIT MK2 Laser Engraver Instruction Manual

Model: MK2 10W | Brand: AlgoLaser

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your AlgoLaser DIY KIT MK2 10W Laser Engraver. Please read all instructions carefully before use to ensure proper setup, operation, and maintenance.

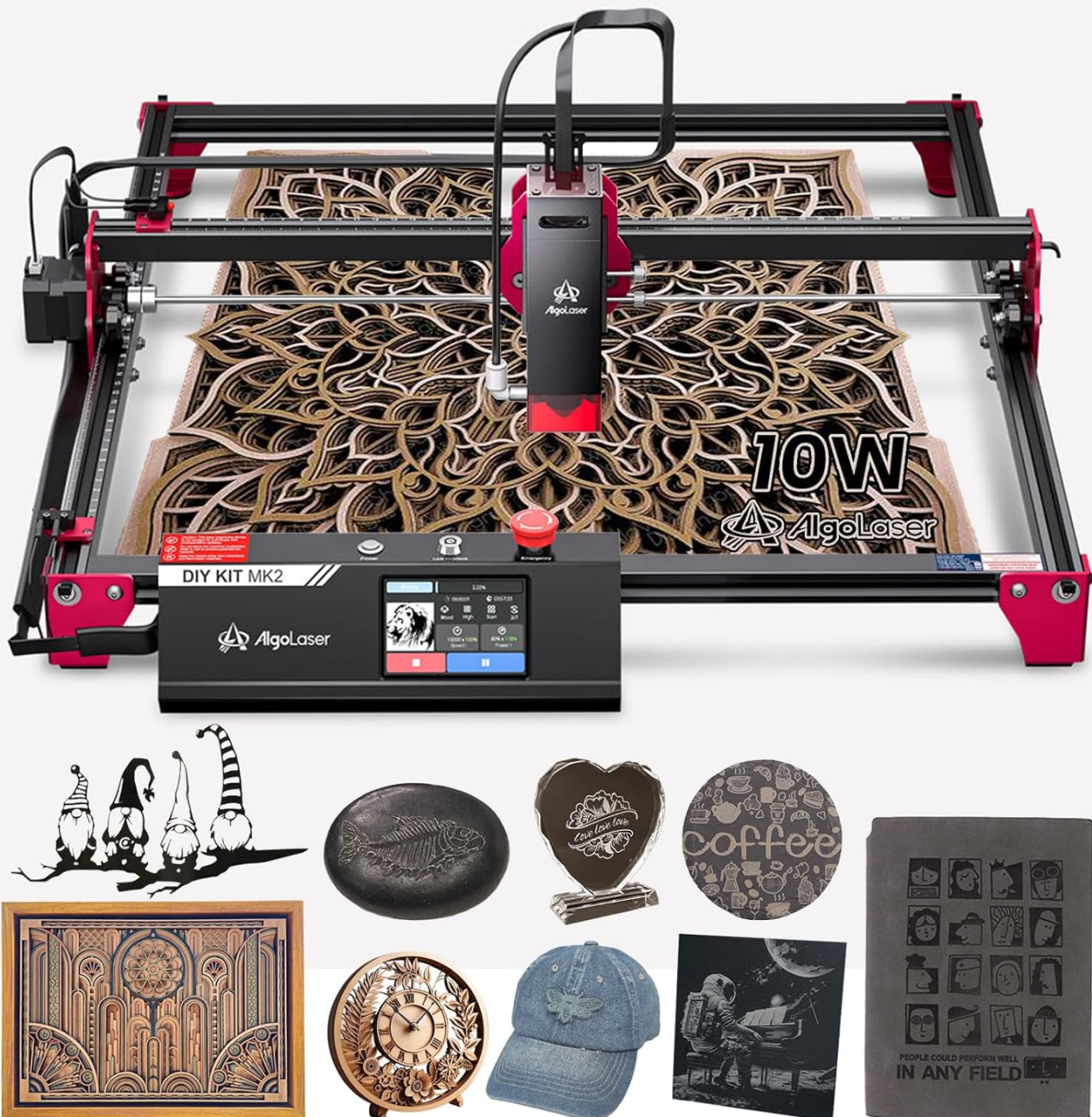


Figure 1.1: AlgoLaser DIY KIT MK2 Laser Engraver and sample engravings.

2. SAFETY INFORMATION

The AlgoLaser DIY KIT MK2 is equipped with multiple safety features to ensure user protection. Always adhere to the following guidelines:

- **Laser Emission Protection:** The device incorporates mechanisms to control laser emission.
- **Emergency Stop Button:** A prominent emergency stop button is available for immediate shutdown.
- **USB Disconnection Detection:** The system detects unexpected USB disconnections.
- **Child Lock:** A child lock feature prevents unauthorized operation.
- **Machine Offset Detection:** The device can detect unintended machine movement.
- **Machine Tilt Detection:** Tilting of the machine is detected for safety.
- **Current and Voltage Detection:** Monitors electrical parameters for safe operation.

Unlock All Materials, For Daily & Business Needs

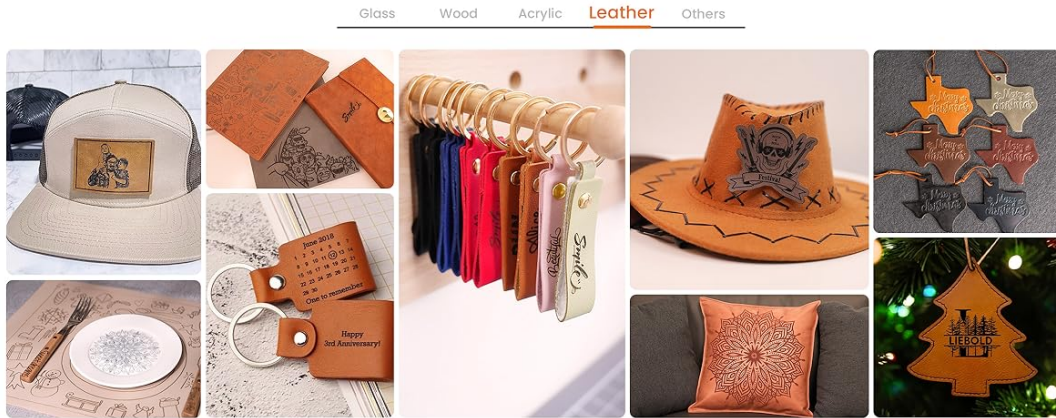


Figure 2.1: Overview of the 7 major safety features.

3. PACKAGE CONTENTS

Verify that all components listed below are present in your package:

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Figure 3.1: All components included in the DIY KIT MK2 package.

- X-Axis Assembly
- Rear Panel Assembly
- Left Y-Axis Assembly
- Front Assembly
- Right Y-Axis Assembly
- Control Box
- ALM-10BD Laser Module (10W)
- Laser Goggle
- Power Cable
- Power Adapter
- USB Cable

- Air Pipe
- WiFi Aerial
- Support Feet (2)
- Timing Belt
- Focus Assist
- Limit Switch Mounting Plate
- Limit Switch
- Lens
- Machine Key Set
- Wrench, Screwdriver, Allen Keys, Thumb Screws, various M5 screws and washers

4. SETUP

4.1 Unboxing

Carefully unbox your AlgoLaser DIY KIT MK2. Ensure all components are present and undamaged before proceeding with assembly.

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Video 4.1: AlgoLaser DIY KIT MK2 unboxing process.

4.2 Assembly

Follow the step-by-step instructions to assemble your laser engraver. Refer to the Quick Start Guide included in the package for detailed diagrams.

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Video 4.2: Step-by-step assembly guide for the AlgoLaser DIY KIT MK2.

5. OPERATING INSTRUCTIONS

5.1 Basic Operation with AlgoOS

The AlgoLaser DIY KIT MK2 features a built-in 3.5-inch IPS touchscreen with AlgoOS for intuitive touch-to-engrave functionality. No computer is required for basic operations.

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Video 5.1: Demonstration of basic carving operations using AlgoOS.

5.2 Cutting and Engraving Materials

The laser engraver can work with various materials such as wood, metal, acrylic, glass, and leather. AlgoOS provides preset engraving parameters for different materials to simplify the process.

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Unlock All Materials, Engraving Anything You Want

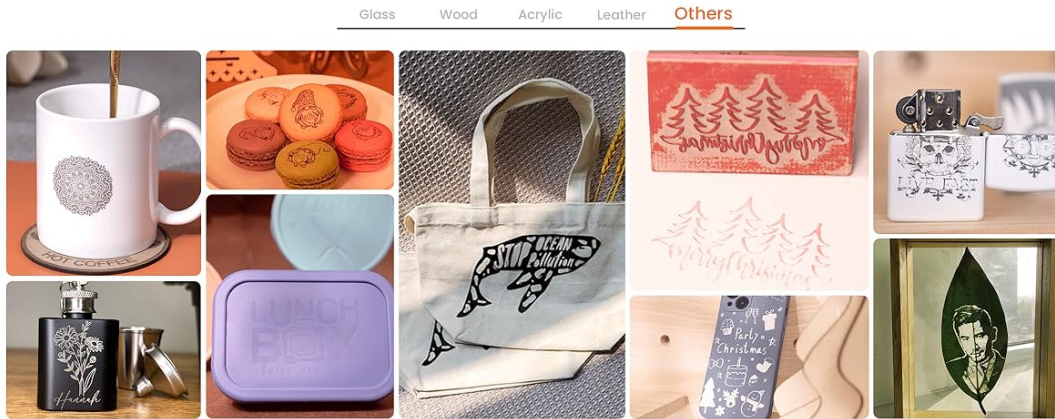


Figure 5.1: Examples of various materials that can be engraved or cut.

5.3 Firmware Update

Keep your AlgoLaser DIY KIT MK2 updated with the latest firmware for optimal performance and new features. Updates can be performed via Wi-Fi.

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Video 5.3: Guide on how to upgrade the DIY KIT MK2 firmware to AlgoOS 2.3.

5.4 Advanced Features

The AlgoLaser DIY KIT MK2 supports various advanced features and accessories, including a rotary chuck for cylindrical objects and an extension kit for a larger working area.

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Video 5.4: Overview of advanced DIY projects possible with AlgoLaser DIY KIT MK2, including rotary engraving.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your laser engraver. Keep the laser lens clean and free from debris. Periodically check and tighten any loose screws on the frame and moving parts. Ensure the honeycomb platform is clean to maintain proper airflow during operation.

7. TROUBLESHOOTING

If you encounter issues, the AlgoOS system provides fault reporting to help identify problems. Common issues may include:

- **Laser Not Firing:** Check power connection, laser module connection, and ensure safety features are disengaged.
- **Poor Engraving Quality:** Verify material settings, focus, and cleanliness of the laser lens.
- **Machine Movement Issues:** Check belt tension and ensure all frame components are securely fastened.

For persistent issues, consult the AlgoLaser support website or contact customer service.

8. SPECIFICATIONS

Feature	Detail
Product Dimensions	26.23 x 23.67 x 7.01 inches
Item Model Number	MK2 10W
Item Weight	11.38 pounds
Manufacturer	Algolaser
Country of Origin	China
Date First Available	November 20, 2024

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please visit the official AlgoLaser website or contact their customer service department. Keep your purchase receipt for warranty claims.