SainSmart Kiosk 10W Laser Engraver+Camera

Genmitsu Kiosk 10W Laser Engraver with Camera

User Manual

1. Introduction

The Genmitsu Kiosk 10W Laser Engraver with Camera is a compact and powerful tool designed for precision engraving and cutting on a variety of materials. Featuring a 10W diode laser and an integrated high-precision camera, this machine offers enhanced accuracy and an efficient workflow for both hobbyists and professionals. Its portable design and robust safety features ensure a reliable and user-friendly experience.



Image: The Genmitsu Kiosk 10W Laser Engraver, showcasing its compact design, integrated camera module, and examples of engraved items such as a mug, wallet, and decorative wood piece.

2. Safety Information

Operating laser equipment requires adherence to strict safety guidelines to prevent injury and damage. The Genmitsu Kiosk is designed with several safety features, but user vigilance is paramount.

- **Laser Safety Class 1:** This product is classified as a Class 1 laser product, meaning it is safe under all conditions of normal use. However, direct exposure to the laser beam should always be avoided.
- **Safety Mechanism:** The machine is equipped with a safety mechanism that automatically stops operation if the safety cover is opened during use or if the machine is tilted more than 12° ± 5° for more than one second. This ensures a controlled and safe working environment.
- **Ventilation:** Ensure adequate ventilation when operating the engraver, especially when working with materials that produce fumes.
- **Eye Protection:** Although Class 1, it is recommended to use appropriate laser safety glasses when observing the engraving process, especially if the safety cover is removed for specific operations (e.g., engraving larger items).
- **Material Compatibility:** Only engrave or cut materials recommended by the manufacturer. Certain materials can produce toxic fumes or catch fire.

3. Product Features

The Genmitsu Kiosk 10W Laser Engraver offers a range of features designed to enhance your engraving and cutting experience:

- **Powerful 10W Diode Laser:** Capable of deep engraving and cutting materials such as 8mm plywood, 5mm solid wood, cardboard, and deep color fabrics. It also excels at engraving leather, plastic, stainless steel, titanium alloy, and transparent acrylic/glass (requires laser marking spray).
- **High-Precision Kiosk Camera:** Specifically designed for Kiosk laser engraving machines, compatible with LightBurn software. This camera allows for easy calibration and precise zone-focused engraving, ensuring accurate results.
- **Effortless Laser Cutting:** Features a removable base plate that protects your work surface and allows for engraving larger items like tables or chairs when removed. Built-in air assist enhances cutting precision.
- **Efficient Workflow:** The integrated camera accurately detects all laser zones, enabling sequential engraving of multiple items without manual intervention, boosting productivity.
- **Multi-Platform Support:** Compatible with Windows, macOS, iOS, Linux, and Android operating systems.
- **Offline Engraving:** Supports importing files via a TF card for convenient offline operation.
- **High Accuracy:** Achieves an engraving accuracy of 0.01mm.
- **High Speed:** Operates at speeds up to 12000mm/min.



Image: A detailed view of the 10W laser module demonstrating its capability to cut through solid wood and plywood in a single pass.

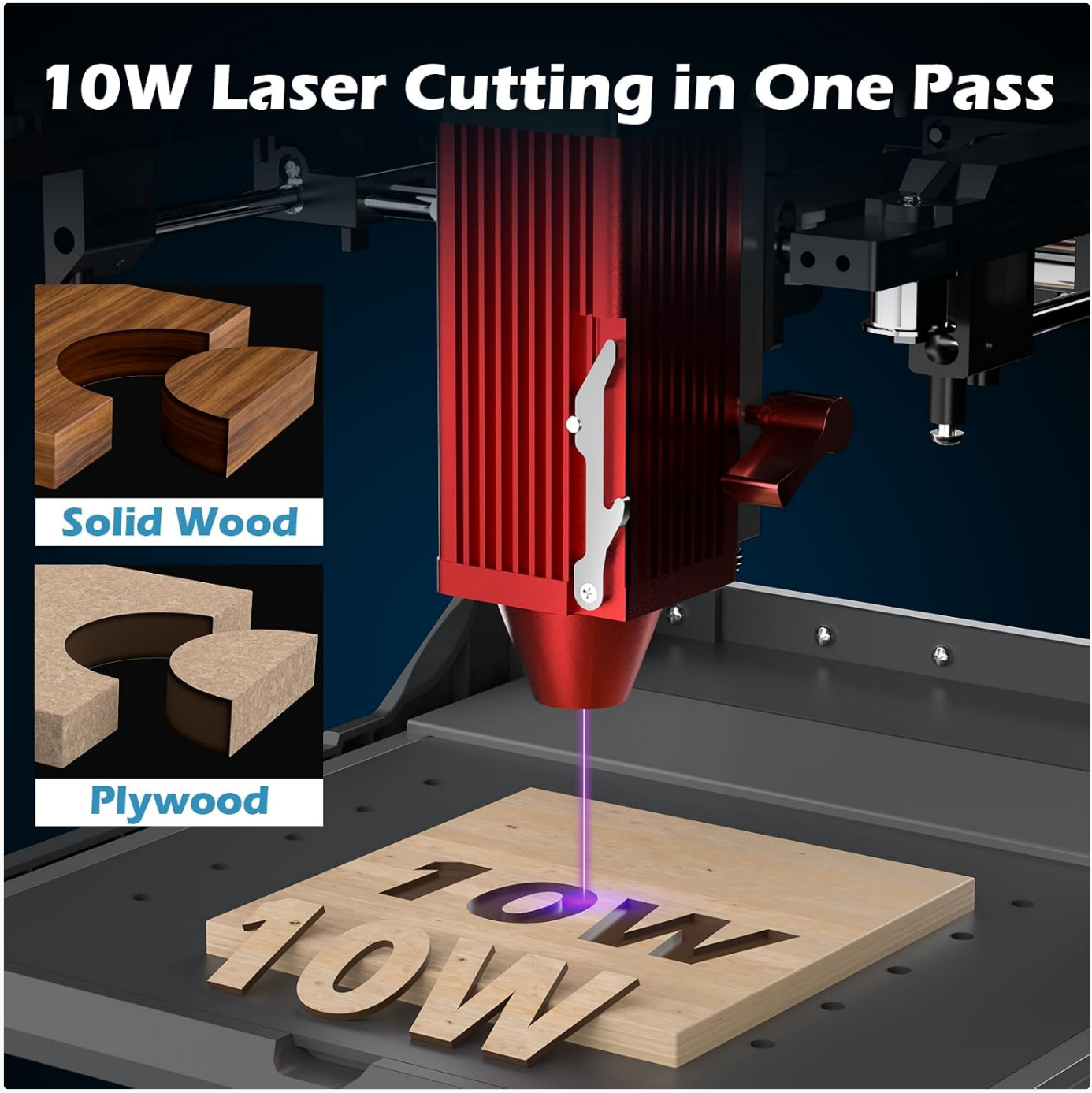


Image: The Genmitsu Kiosk laser engraver illustrating its compatibility with multiple platforms (Windows, Mac, iOS, Linux, Android) and its offline engraving capability via a TF card.

4. Components and Package Contents

Upon unboxing, verify that all components are present and undamaged:

- Genmitsu Kiosk Laser Engraver (Pre-assembled Frame with Laser Module)
- Kiosk Camera Module
- USB Cable
- Calibration Card
- Sample Materials (e.g., cardboard)



Image: The contents of the camera module package, including the camera, USB cable, calibration card, and sample materials. A reminder to remove the protective lid from the camera before use is also shown.

5. Setup Guide

The Genmitsu Kiosk laser engraver comes largely pre-assembled for quick setup.

1. **Unpack the Unit:** Carefully remove the engraver and all accessories from the packaging. The main unit, including the laser module, is pre-assembled within the frame.
2. **Install the Camera Module:** The Kiosk camera module is designed for easy installation. Align the camera with its designated slot on the engraver and secure it. Ensure the protective lid on the camera lens is removed before use.
3. **Connect to Power:** Plug the power adapter into the engraver and then into a suitable power outlet.
4. **Connect to Computer/Device:** Use the provided USB cable to connect the engraver to your computer or compatible device.
5. **Software Installation:** Install the necessary engraving software (e.g., LightBurn, CutlabX, LaserGRBL) on your computer or mobile device. Follow the software's instructions for installation and initial setup.



Image: The Genmitsu Kiosk laser engraver as it appears in its packaging, highlighting the pre-assembled frame and laser module, signifying its 'ready to use' state.



Image: A close-up view of the Genmitsu Kiosk camera module being installed, demonstrating the ease of its assembly process.

6. Operating Instructions

Follow these steps for typical engraving and cutting operations:

1. **Prepare Your Material:** Place the material to be engraved or cut on the working platform. Ensure it is flat and securely positioned.
2. **Software Setup:** Open your chosen engraving software (e.g., LightBurn). Import or create your design.
3. **Camera Calibration and Positioning:** Utilize the Kiosk camera for precise positioning. The camera will help locate the item and define the engraving area. Perform calibration as per software instructions for optimal accuracy.
4. **Adjust Parameters:** Set the laser power, speed, and number of passes according to your material and desired effect. Refer to material settings guides provided by the software or manufacturer.
5. **Work Preview:** Use the software's preview function to visualize the engraving path and ensure it aligns with your material.
6. **Start Engraving:** Once satisfied with the preview, initiate the engraving process from the software or using the one-touch control button on the machine.
7. **One-Touch Control:** The machine features intuitive one-touch control buttons to effortlessly cycle through engraving preview, start, pause, and stop operations.
8. **Offline Engraving (Optional):** For offline operation, save your design to a TF card and insert it into the machine. The engraver can then operate independently of a connected computer.



Image: The Genmitsu Kiosk laser engraver connected to a laptop, displaying a work preview of an engraving project on the screen, illustrating the design process.

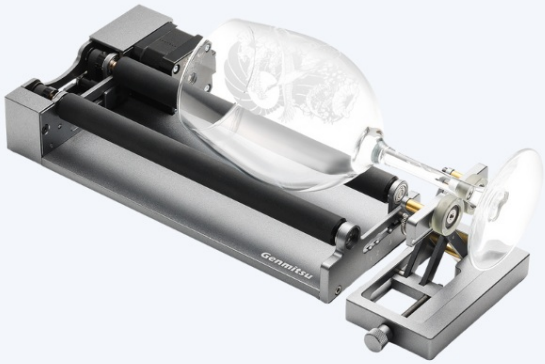


Image: A hand pressing the control buttons on the Genmitsu Kiosk, illustrating the one-touch functionality for previewing, starting, pausing, and stopping engraving operations.

7. Maintenance

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

- **Clean the Lens:** Periodically clean the laser lens with a soft, lint-free cloth and lens cleaning solution to ensure clear laser transmission and prevent power loss.
- **Clean the Working Area:** Remove debris and dust from the engraving platform and surrounding areas after each use.
- **Check for Loose Connections:** Regularly inspect all cables and connections to ensure they are secure.
- **Software Updates:** Keep your engraving software updated to the latest version for improved performance and new features.
- **Storage:** When not in use, store the engraver in a clean, dry environment away from direct sunlight and extreme temperatures.

8. Troubleshooting

This section addresses common issues you might encounter. For more complex problems, refer to the manufacturer's online resources or contact support.

Problem	Possible Cause	Solution
Machine not powering on	Power cable loose; power outlet issue; machine fault.	Check power cable connection; try a different outlet; contact support if issue persists.
Laser not firing	Safety cover open; machine tilted; software settings incorrect; laser module issue.	Ensure safety cover is closed and machine is level; verify laser power/speed settings in software; clean laser lens; contact support.
Engraving is blurry/inaccurate	Material not flat; focus incorrect; camera not calibrated; machine vibrations.	Ensure material is flat and secure; adjust laser focus; recalibrate camera; place machine on a stable surface.
Software not connecting to machine	USB cable issue; driver not installed; incorrect port selected in software.	Try a different USB port/cable; ensure drivers are installed; select correct COM port in software.

9. Specifications

Specification	Value
Model	Kiosk 10W Laser Engraver+Camera
Laser Power	10W (10000mW) Diode Laser
Engraving Area	3.9 x 3.9 inches (approx. 100 x 100 mm)
Engraving Accuracy	0.01mm
Engraving Speed	Up to 12000mm/min

Specification	Value
Laser Safety Class	Class 1
Connectivity	USB, TF Card (Offline Engraving)
Compatible Software	LightBurn, CutlabX, LaserGRBL
Supported OS	Windows, macOS, iOS, Linux, Android
ASIN	B0DMZ368L3
Date First Available	November 26, 2024



Image: A visual summary of key features including built-in air assist, LED indicator, one-click repeat function, 0.01mm accuracy, 12000mm/min speed, 1000+ hours laser lifespan, and the machine's portability.

10. Warranty and Support

For warranty information and technical support, please refer to the official SainSmart website or contact the seller directly. Keep your purchase receipt as proof of purchase for any warranty claims.

SainSmart Official: Visit the SainSmart Store on Amazon

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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