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› Genmitsu Kiosk 5W Laser Engraver User Manual

SainSmart KKW5

Genmitsu Kiosk 5W Laser Engraver User Manual

MODEL: KKW5

Brand: SainSmart

1. Introduction

The Genmitsu Kiosk 5W Laser Engraver is a compact and portable machine designed for home DIY projects, offering precise engraving and light cutting capabilities on various materials. Its lightweight design and user-friendly features make it an ideal tool for creative endeavors.



Figure 1.1: The Genmitsu Kiosk 5W Laser Engraver, showcasing its compact design and versatility for engraving on different materials like wood, metal, and glass.

This manual provides essential information for setting up, operating, and maintaining your Genmitsu Kiosk laser engraver. Please read it thoroughly before use to ensure safe and efficient operation.

Video 1.1: An overview of the Genmitsu Kiosk laser engraver, highlighting its features and potential applications for various engraving projects.

2. Important Safety Precautions

The Genmitsu Kiosk is a Class 1 laser product. Always operate the machine with the safety cover closed. The machine is

equipped with a safety mechanism that stops operation if the safety cover is opened or if the machine is tilted more than $12^{\circ}\pm 5^{\circ}$ for more than one second. This ensures a safe and controlled work environment.

- Always wear appropriate laser safety glasses when operating the machine, even with the safety cover closed, as an additional precaution.
- Do not engrave or cut materials that produce toxic fumes or are highly flammable.
- Ensure adequate ventilation in your workspace to dissipate any smoke or odors produced during engraving.
- Keep children and pets away from the operating area.
- Never leave the machine unattended during operation.



Figure 2.1: Illustration of the Genmitsu Kiosk's safety features, including tilt induction and a lid opening sensor that automatically stops operation for user protection.

3. Package Contents

Before beginning setup, please verify that all components are present in your package:

- Genmitsu Kiosk Laser Engraver Unit (Pre-assembled)
- Laser Module
- Power Adapter
- USB Cable
- Sample Engraving Materials
- User Manual (this document)



Figure 3.1: The Genmitsu Kiosk laser engraver as it appears out of the box, showing the pre-assembled frame and the separate laser module ready for quick installation.

4. Setup

The Genmitsu Kiosk laser engraver comes largely pre-assembled for quick and easy setup. Follow these steps to get started:

1. Place the laser module into the designated slot within the pre-assembled frame.
2. Connect the power adapter to the machine and a power outlet.
3. Connect the USB cable from the machine to your computer or mobile device.
4. Download and install the latest Genmitsu APP (V2.0.0 or higher) on your mobile device or the recommended software on your computer.
5. Follow the in-app instructions for initial machine connection and Wi-Fi setup. The app offers simplified network setup and an intuitive control interface.

Video 4.1: This official video demonstrates the step-by-step process of connecting the Genmitsu Kiosk laser engraver to the Genmitsu mobile application, including Wi-Fi configuration and machine recognition.

5. Operating Instructions

5.1 Basic Operation

The Genmitsu Kiosk features a user-friendly one-button operation for controlling your engraving projects. With a single

press, you can preview, start, pause, or stop the engraving process. This ensures ease of use and precise control over your designs.



Figure 5.1: Image showing the top of the Genmitsu Kiosk laser engraver with a hand pressing the play button, illustrating the simple one-button operation for starting and controlling engraving tasks.

5.2 Focusing

Achieving optimal engraving quality requires proper focusing of the laser. The Genmitsu Kiosk is designed for effortless focusing, which helps in producing crisp and clean engravings without blurs or motion wear. Refer to the quick-start guide or app instructions for specific focusing procedures.



Figure 5.2: Close-up image of the laser module with text 'Effortless Focusing', highlighting the easy focus mechanism that ensures sharp and precise engravings.

5.3 Engraving Materials

The 5W diode laser is versatile, capable of engraving medium-depth marks and light cuts on a variety of materials. These include:

- **Wood:** Such as 5mm basswood and 3mm plywood.
- **Leather:** Ideal for engraving thick leather.
- **Plastics:** Various types of plastics can be engraved.
- **Fabrics:** Suitable for engraving designs onto textiles.
- **Coated Metal:** Engraves effectively on coated metal surfaces.
- **Transparent Acrylics:** Requires laser marking spray for optimal results.



Figure 5.3: Image demonstrating the 5W laser cutting capability on plywood and basswood, showcasing the clean and precise cuts achievable with the machine.

5.4 Offline Engraving & Software Compatibility

The Genmitsu Kiosk supports offline engraving, allowing you to import design files via a TF card without needing a

continuous connection to a computer or mobile device. The machine is compatible with a wide range of operating systems and software:

- **Operating Systems:** Windows, Mac, iOS, Linux, Android.
- **Software:** CutlabX, LightBurn, LaserGRBL.



Figure 5.4: Image illustrating the Genmitsu Kiosk's multi-platform support (Windows, Mac, iOS, Android) and its capability for offline engraving via TF card, along with compatible software logos.

5.5 Removable Base Plate

The machine features a removable base plate that protects your work surface during the cutting process. When removed, it allows you to engrave larger items such as tables or chairs, expanding your creative possibilities.

5W Laser Cutting in One Pass

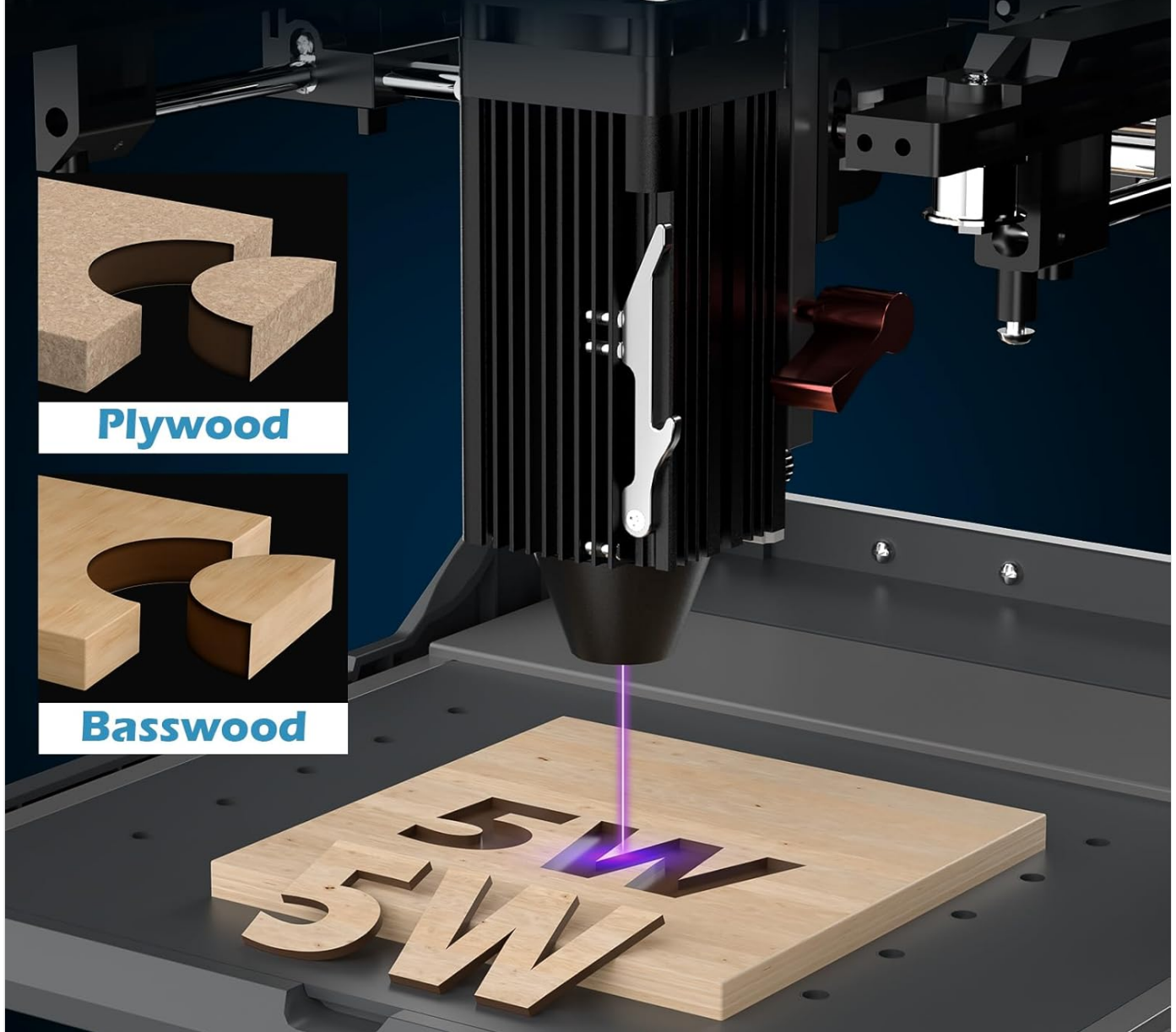


Figure 5.5: Image demonstrating the versatility of the Genmitsu Kiosk with its removable base plate, allowing for engraving on both small items on the plate and larger objects when the plate is removed.

6. Maintenance

Regular maintenance is essential to ensure the longevity and optimal performance of your Genmitsu Kiosk laser engraver. Follow these guidelines:

- **Clean the Laser Lens:** Periodically clean the laser lens with a soft, lint-free cloth and a small amount of isopropyl alcohol. A dirty lens can significantly reduce engraving quality.
- **Clean the Engraving Area:** After each use, especially when engraving materials like wood or leather that produce residue, clean the engraving bed and surrounding areas to prevent buildup.
- **Check the Exhaust Fan:** Ensure the internal exhaust fan is clear of dust and debris to maintain proper airflow and prevent overheating.
- **Inspect Cables and Connections:** Regularly check all cables and connections for any signs of wear or damage.
- **Software Updates:** Keep your Genmitsu APP and machine firmware updated to the latest versions for improved

performance and new features.

7. Troubleshooting

If you encounter issues with your Genmitsu Kiosk, refer to the following common problems and their solutions:

7.1 Connectivity Issues

- **Machine Not Found in App:** Ensure the machine is powered on and within range. Verify that your mobile device is connected to the correct Wi-Fi network (Genmitsu_Kiosk_XXXX). Try restarting both the machine and the Genmitsu APP.
- **Connection Drops:** Check for Wi-Fi interference or distance from your router. Ensure no other devices are heavily using the network bandwidth.

7.2 Engraving Quality Issues

- **Blurry or Faint Engravings:** Re-focus the laser module. Ensure the material is flat and securely placed on the engraving bed. Check if the laser lens is clean.
- **Inconsistent Engraving Depth:** Verify that the material thickness is uniform. Adjust laser power and speed settings according to the material type and desired effect.
- **Engraving Not Centered:** Ensure your design is properly aligned within the software's workspace and that the material is correctly positioned on the engraving bed.

7.3 Safety Sensor Activation

- **Machine Stops Unexpectedly:** Check if the safety cover is fully closed and latched. Ensure the machine is on a stable, level surface and has not been tilted during operation. Re-close the lid or reposition the machine to resume operation.

8. Specifications

Below are the technical specifications for the Genmitsu Kiosk 5W Laser Engraver:

| Feature | Specification |
|----------------------|---------------------------------|
| Model Number | KKW5 |
| Laser Power | 5W (5000mW) Diode Laser |
| Engraving Area | 3.9 x 3.9 inches (100 x 100 mm) |
| Product Dimensions | 12.8 x 10.63 x 10.83 inches |
| Item Weight | 8.8 pounds |
| Precision | 0.01 mm |
| Engraving Speed | Up to 12000 mm/min |
| Manufacturer | Genmitsu |
| Country of Origin | China |
| Date First Available | October 30, 2024 |

9. Warranty and Customer Support

SainSmart is committed to providing quality products and excellent customer service. For technical assistance, troubleshooting, or warranty inquiries regarding your Genmitsu Kiosk laser engraver, please utilize the following resources:

- **SainSmart Resource Centre:** Access detailed guides, FAQs, and community forums for self-help.
- **Official Support Channels:** Contact SainSmart customer support directly via their website or the Genmitsu APP for personalized assistance.

For more information or to explore other SainSmart products, visit the [SainSmart Store on Amazon](#).