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› **NEJE N30630 Engraving Module, 2.5W Output Power, Suitable for NEJE Master 2S, Plus & Max Engraving Machine, CNC Machine/Router/Arduino/3D Printer etc.**

NEJE N30630

NEJE N30630 Engraving Module Instruction Manual

Model: N30630 | Brand: NEJE

1. INTRODUCTION AND OVERVIEW

The NEJE N30630 Engraving Module is a versatile 2.5W output power laser module designed for precision engraving and cutting. It is compatible with NEJE Master 2S, Plus, and Max Engraving Machines, as well as various CNC machines, routers, Arduinos, and 3D printers. This manual provides essential information for safe and effective operation, from initial setup to advanced software usage.

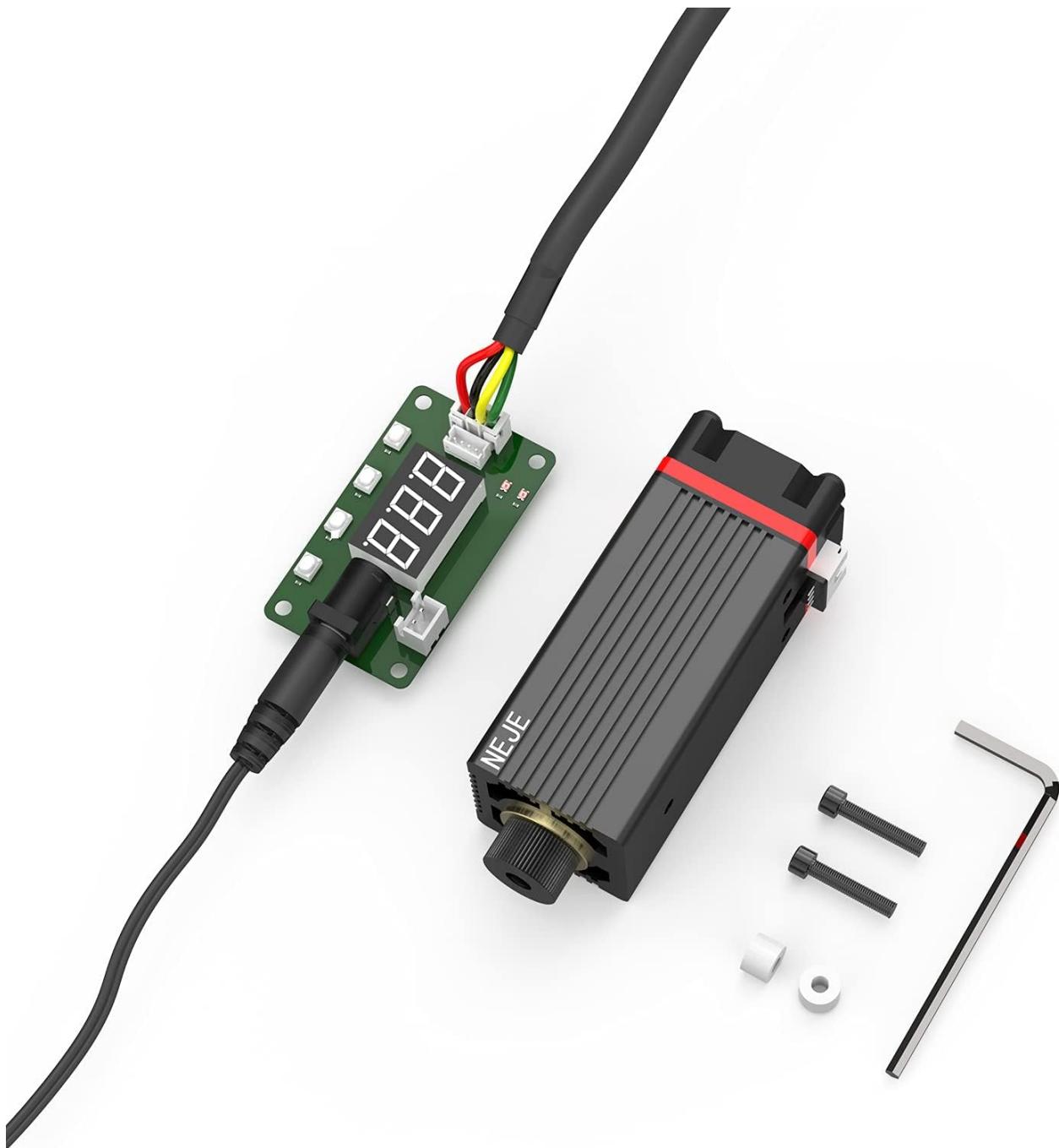


Figure 1: NEJE N30630 Engraving Module and included components.

2. SAFETY INFORMATION

Operating laser engraving equipment requires strict adherence to safety protocols to prevent injury. Always prioritize safety during setup and operation.

- **Mind The Fire:** Laser engraving can generate heat and sparks. Ensure a fire extinguisher is nearby and never leave the machine unattended during operation.
- **Wear Goggles:** Always wear appropriate laser safety goggles to protect your eyes from direct or reflected laser light.
- **No Touching:** Do not touch the laser outlet or the engraving area during operation. The laser beam can cause severe burns.
- **Mirror Object:** Avoid using reflective materials as they can redirect the laser beam, causing unpredictable hazards.
- Children under 14 years of age are prohibited from using this product.
- Children over 14 years of age need adult supervision when using this product.

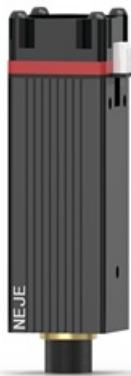


Figure 2: Essential safety warnings for laser operation.

3. PACKAGE CONTENTS

Upon unboxing your NEJE N30630 Engraving Module, verify that all components are present and undamaged. The standard package typically includes:

- 1 x NEJE Master 2S 20W Engraving Machine (main frame)
- 1 x 20W Engraving Module (N30630)
- 1 x 12V3A Power Adapter (for US)
- 1 x Red Glasses (safety goggles)
- 1 x Data Cable (USB)
- 1 x Manual (including other test materials like wood blocks, acrylic, etc.)
- Small tools (wrenches, screws, brush, marker)

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Video 1: Packing list for 20W engraving machine. This video demonstrates the typical contents included in the product package.

4. SETUP AND INSTALLATION

Follow these steps to assemble your NEJE Master 2S engraving machine and install the N30630 module:

1. Carefully remove all components from the packaging.
2. Assemble the main frame of the engraving machine according to the included manual. This typically involves attaching the horizontal and vertical axes.
3. Attach the N30630 laser module to the designated carriage on the machine's gantry. Secure it using the provided screws and tools.
4. Connect the module's cable to the control board on the machine.
5. Connect the power adapter to the machine and plug it into a power outlet.
6. Connect the machine to your computer via the provided USB data cable.

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Video 2: Master 2 Engraving Machine assembly and initial setup. This video provides a visual guide for putting together the engraving machine.

5. SOFTWARE INSTALLATION AND USAGE

The NEJE N30630 module can be controlled using various software options, including NEJE's proprietary software, Benbox, LaserGRBL, and LightBurn, as well as a mobile app. Ensure you download the correct drivers and software versions from the official NEJE website.

5.1 NEJE Software

The NEJE software offers efficient scanning mode and unique minimal Gcode mode. It's recommended for beginners due to its user-friendly interface.

- Download the latest NEJE Controller for Windows from the official NEJE Wiki.
- Install the software and connect your device. The software may prompt for firmware updates.
- Use the Photo Gallery or import images/text for engraving.
- Adjust laser power and burning time as needed.
- Utilize the preview function to ensure correct positioning before starting the engraving process.

5.2 Benbox Software

Benbox is an open-source software that can be used with the NEJE module. It requires specific drivers for installation.

- Download Benbox software and its drivers from the NEJE Wiki.
- Install Benbox and the necessary device drivers.
- Import images or create designs within the Benbox interface.
- Adjust settings like intensity, speed, and time for engraving.

5.3 LaserGRBL Software

LaserGRBL is a professional software for GRBL-based laser engravers. It offers advanced control features.

- Download LaserGRBL from the official website or NEJE Wiki.
- Connect your device and ensure proper GRBL firmware is loaded (NEJE provides an uploader tool).
- Import raster images and adjust parameters like brightness, contrast, and dithering options.
- Control laser power and movement directly from the interface.

5.4 LightBurn Software

LightBurn is a paid software known for its comprehensive layout, editing, and control features for laser cutters. A trial version is often available.

- Download and install LightBurn.
- Configure your device within LightBurn, specifying the laser type and work area.
- Import designs (SVG, DXF, PLT, PNG, JPG, GIF) and set cutting/engraving parameters for different layers.
- Utilize features like framing to preview the engraving area.

5.5 Mobile Phone App

NEJE also offers a mobile application for wireless control, supporting Android and iOS devices (via Bluetooth BLE 4.0 and above).

- Download the NEJE APP from the official NEJE Wiki or app stores.
- Connect your phone to the laser machine via Bluetooth.
- Import images or draw directly within the app.
- Adjust laser power and initiate engraving wirelessly.

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Video 3: NEJE 20W Engraving Machine Software Overview. This video demonstrates the installation and basic usage of various software options, including the mobile app.

6. OPERATING INSTRUCTIONS

Achieving optimal engraving results requires proper focus and material selection. The N30630 module offers easy focus adjustment.



Figure 3: Easy focus adjustment on the NEJE N30630 module.

The module is capable of engraving and cutting a wide range of materials. Engraving depth can reach 1.5-3mm in engraving mode, and it can cut up to 8mm thick wooden blocks with correct focus adjustment.

More Applicable Materials for More Professional DIY Enjoyment



Plywood



Kraft paper



Leather



Plastic



Black anodized aluminum



Corrugated board



Solid wood



Veneer



Bamboo



MDF board



Black acrylic



Stamp rubber



Canvas art



Non-woven fabric



Painted metal



Painted tile



Bone



Film-coated transparent acrylic



Film-coated stainless steel



Film-coated glass

Note: The above pictures are provided by NEJE customers. The effects of glass, transparent acrylic, stainless steel, and ceramics need to be combined with other processes to achieve

Figure 4: Examples of applicable materials for engraving and cutting.

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Video 4: NEJE 20W Engraving Machine Engraving Materials. This video showcases the diverse range of materials compatible with the engraving machine.

7. MAINTENANCE

To ensure the longevity and optimal performance of your NEJE N30630 Engraving Module, regular maintenance is recommended:

- Keep the laser lens clean. Use a soft, lint-free cloth and lens cleaning solution specifically designed for optics.
- Regularly check and clean the cooling fan on the module to prevent overheating.
- Inspect the machine's rails and belts for any debris or wear. Clean and lubricate as necessary to ensure smooth movement.
- Store the module in a dry, dust-free environment when not in use.

8. TROUBLESHOOTING

If you encounter issues with your NEJE N30630 Engraving Module, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
Laser not firing or weak output	Incorrect focus, low power setting, dirty lens, loose connection.	Adjust focus, increase laser power in software, clean lens, check cable connections.
Machine not connecting to computer/app	Driver issues, incorrect COM port, Bluetooth not paired.	Reinstall drivers, select correct COM port in software, ensure Bluetooth is enabled and paired.
Engraving is blurry or inconsistent	Loose belts, unstable work surface, incorrect speed/power settings.	Check and tighten belts, ensure machine is on a stable surface, adjust speed and power settings.
Software not responding	Software bug, incompatible firmware, system resource issues.	Restart software, update firmware, close other demanding applications.

9. SPECIFICATIONS

- **Product Dimensions:** 4.72 x 1.57 x 1.57 inches
- **Item Weight:** 7.2 ounces
- **Output Power:** 2.5W (Laser Module)
- **Compatibility:** NEJE Master 2S, Plus & Max Engraving Machine, CNC Machine/Router/Arduino/3D Printer etc.
- **Engraving Depth:** 1.5-3mm (in engraving mode)
- **Max Cutting Thickness:** 8mm (wooden blocks with correct focus adjustment)



Figure 5: NEJE N30630 Module dimensions.

10. WARRANTY AND SUPPORT

For warranty information, technical support, and customer service, please refer to the documentation provided with your product or visit the official NEJE website. Keep your purchase receipt for warranty claims.