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› ComMarker B6 60W JPT Mopa Fiber Laser Engraver User Manual

ComMarker B6 MOPA

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Model: B6 MOPA

SAFETY INFORMATION

This device is a Class 1 Laser Product. Adhere to all safety guidelines during operation to prevent injury or damage.

- **Laser Class:** CLASS 1 LASER PRODUCT
- **Power Output:** 1.95mW
- **IEC 60825-1 Report Number:** 2501Q25848E-SFA1
- **FDA Accession No.:** 2521455-000

Always wear appropriate laser safety goggles when operating the machine. Ensure the work area is well-ventilated to disperse any fumes generated during engraving.

1. SETUP

1.1 Unboxing and Package Contents

Carefully unpack all components from the box. Verify that all items listed below are present before proceeding with assembly.

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Super Cutting Ability



Image: All components included with the ComMarker B6 Laser Engraver, laid out on a table. This includes the main engraver unit, power adapter, data cable, foot switch, Type-C cable, riser, Allen wrench set, ruler, placing helper, safety goggles, OTG adapters, USB drive, paperboard, and steel for testing, along with various screws.

The package includes:

- 1x B6 Laser Engraver
- 1x Power Adaptor
- 1x Data Cable
- 1x Foot Switch
- 1x Type-C Cable
- 1x Riser
- 1x Allen Wrench Set
- 1x Placing Helper
- 1x Goggles
- 2x OTG Adapter
- 1x USB Drive
- 1x Paperboard (for testing)
- 1x Steel For Testing

- Screws: M5*14 x 6, M5*10 x 12, M4*12 x 4, M5*12 x 2

1.2 Physical Assembly

Follow these steps to assemble your ComMarker B6 laser engraver:

1. Place the main base unit on a stable, flat surface.
2. Attach the supporting tower to the base unit using the provided screws. Ensure it is securely fastened.
3. Connect the laser head assembly to the top of the supporting tower.
4. Connect the necessary cables (power, data) between the laser head, base unit, and power adapter.
5. If using the riser, place it between the base unit and the supporting tower for increased working height.

Your browser does not support the video tag.

Video: This video demonstrates the physical assembly of the ComMarker B6 laser engraver, showing how to connect the main components and secure them.

1.3 Software Installation

The ComMarker B6 supports Lightburn and EzCad2 software. Installation instructions for Lightburn on Windows and Mac are provided below.

Your browser does not support the video tag.

Video: Step-by-step guide on how to install Lightburn software on a Windows operating system for use with the ComMarker B6 laser engraver.

Your browser does not support the video tag.

Video: Step-by-step guide on how to install Lightburn software on a Mac operating system for use with the ComMarker B6 laser engraver.

For EzCad2 installation and usage, refer to the software documentation provided on the USB drive.

2. OPERATING INSTRUCTIONS

2.1 Powering On and Initial Focus

Connect the power adapter to the engraver and a suitable power outlet (110V). Press the power button to turn on the device.

The ComMarker B6 features a one-touch autofocus system. Place your material on the work surface and activate the autofocus function. The laser will automatically adjust its height for optimal focus.



Image: The ComMarker B6 laser engraver with its one-touch autofocus system in action, showing the laser beam adjusting to find the correct focal distance on a workpiece. This image highlights the automatic, electric, and manual lifting options for focus adjustment.

2.2 Material Compatibility and Engraving

The B6 Mopa fiber laser engraver is compatible with a wide range of materials, including:

- Metals: Stainless steel (for color marking), aluminum, gold, silver, alloys.
- Plastics: Most non-transparent plastics.
- Other materials: Painted products.

The engraving speed can reach up to 15,000mm/s, allowing for efficient marking. The device is capable of color marking on stainless steel.

Wide Compatibility Of Software And File Formats

ComMarker B6 Empowers You To Engrave Any Pattern Using Different Softwares,
including LightBurn EZCAD2, Across Multiple Image Formats.

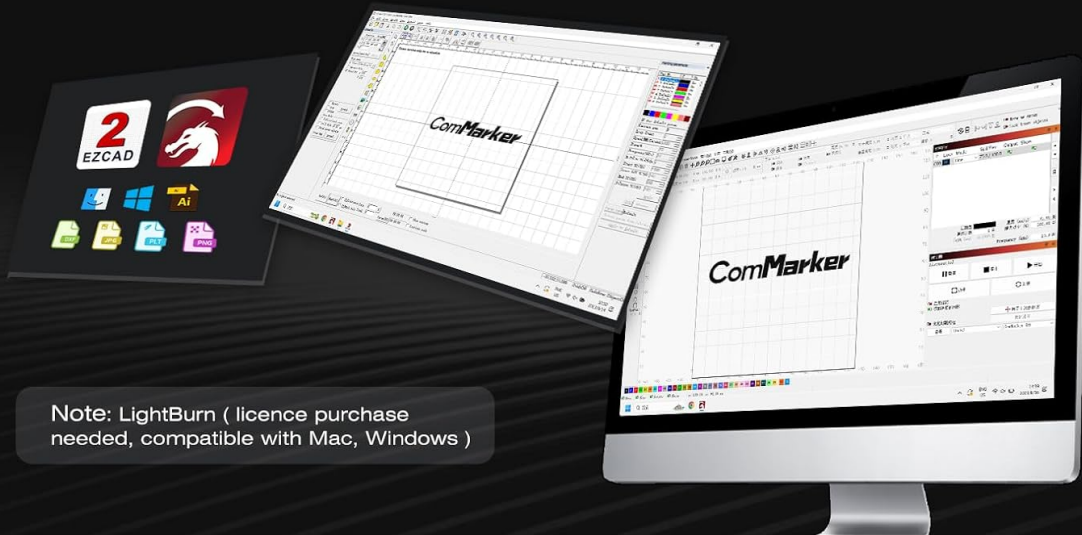


Image: A display of various materials and objects that can be engraved by the ComMarker B6, such as stainless steel, copper, aluminum, plastics, rubber, leather, slate, paint-finished items, stone, and different types of jewelry, demonstrating the engraver's versatility.

Color Marking on Metals



Image: A stainless steel plate showcasing various numbered color markings, demonstrating the color marking capability of the ComMarker B6. Below it are several engraved dog tags featuring different cartoon characters, illustrating detailed engraving on metal.

2.3 Software Usage and File Formats

The engraver supports Lightburn and EzCad2. Supported graphic formats include BMP, GIF, JPG, JPEG, DXF, DST, AI, etc.

One-Touch Autofocus System

Enables Automatic Focusing In Seconds With One-Touch Simplicity Eliminating Manual Adjustments.



Auto Focus



Electric Lifting



Manual Lifting

Image: This image illustrates the wide software compatibility of the ComMarker B6, showing computer screens running Lightburn and EzCad2. Below, icons represent supported graphic formats including AI, DXF, JPG, PLT, and PNG.

Your browser does not support the video tag.

Video: A demonstration of the ComMarker fiber laser engraver in action, engraving various items such as knives, coins, jewelry, and cups, showcasing its precision and versatility.

3. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your ComMarker B6 laser engraver.

- **Cleaning:** Periodically clean the lens and work area to prevent dust and debris buildup, which can affect laser performance. Use a soft, lint-free cloth and appropriate lens cleaning solution.
- **Ventilation:** Ensure the ventilation system is clear and unobstructed to dissipate heat effectively.
- **Cable Inspection:** Regularly check all cables for any signs of wear or damage. Replace damaged cables immediately.
- **Software Updates:** Keep your engraving software (Lightburn, EzCad2) updated to the latest version for new features and bug fixes.

4. TROUBLESHOOTING

This section provides solutions to common issues you might encounter during the operation of your ComMarker B6 laser engraver.

4.1 Common Issues and Solutions

Problem	Possible Cause	Solution
Laser not firing	Power cable disconnected, emergency stop engaged, software error.	Check power connections. Release emergency stop button. Restart software and engraver.
Poor engraving quality	Incorrect focus, wrong material settings, dirty lens.	Perform autofocus. Adjust laser power/speed settings for the material. Clean the laser lens.
Software not connecting to engraver	USB cable issue, driver not installed, incorrect port selection.	Ensure USB cable is securely connected. Install necessary drivers from the USB drive. Select the correct COM port in software.

If you encounter issues not covered here, please contact ComMarker customer support for further assistance.

5. SPECIFICATIONS

Feature	Detail
Model	B6 MOPA
Laser Source	60W JPT M7 Fiber Laser
Engraving Speed	Up to 15,000mm/s
Working Area	150mm x 150mm
Autofocus	Yes, One-Touch Screen
Color Marking	Yes, on stainless steel
Software Compatibility	Lightburn, EzCad2
Supported OS	Windows 7/8/10/11, MAC (Lightburn)
Supported Graphic Formats	BMP, GIF, JPG, JPEG, DXF, DST, AI, etc.
Laser Wavelength	1064nm
Product Dimensions	12 x 10 x 28 inches
Item Weight	53 pounds (approx. 24 kg)
Power Input	110V

6. WARRANTY AND SUPPORT

6.1 Warranty Information

For detailed warranty information, please refer to the documentation included with your product or visit the official ComMarker website. Typically, products come with a manufacturer's warranty covering defects in materials and workmanship.

6.2 Customer Support

If you require technical assistance, have questions about your product, or need to report an issue, please contact ComMarker customer support through their official website or the contact information provided in your product packaging.

You can also visit the [ComMarker Store on Amazon](#) for additional resources and product information.