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OMTech Pronto35

OMTech Pronto 60W CO2 Laser Engraver Instruction Manual

Model: Pronto35 | Brand: OMTech

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your OMTech Pronto 60W CO2 Laser Engraver. This machine is designed for cutting, engraving, and shaping various non-metallic materials such as wood, acrylic, leather, and fabric. It features a 28"x20" work area, autofocus, and compatibility with popular software like LightBurn.



Figure 1: OMTech Pronto 60W CO2 Laser Engraver with included water chiller.

2. SETUP

Proper setup is crucial for optimal performance and safety. Ensure all components are securely connected before operation.

2.1 Unpacking and Placement

- Carefully remove the laser engraver and all accessories from the packaging.
- Place the machine on a stable, level surface in a well-ventilated area. Ensure adequate space around the machine for operation and maintenance.

2.2 Connecting the Water Chiller

The included water chiller is essential for cooling the CO2 laser tube. Connect it according to the chiller's specific instructions.

Pro
Chilled for Speed & Precision

- 4-Way Pass-Through
- Smart Autofocus System 1,200mm/s
- Built-in Water Chiller

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Figure 2: Illustration of the built-in water chiller system.

2.3 Power and Ventilation Connections

- Connect the power cable to a grounded outlet.
- Attach the exhaust fan system to ensure proper fume extraction during operation.

2.4 Software Installation

Install the LightBurn software (or other compatible software like RDWorks, CorelLaser) on your computer. Follow the software's installation guide for detailed instructions.

3. OPERATING INSTRUCTIONS

Familiarize yourself with the machine's controls and software interface before beginning any project.

3.1 Loading Material

- Open the machine lid and carefully place your material on the workbed.
- Ensure the material is flat and securely positioned to prevent movement during operation.

3.2 Automatic Focusing

The Pronto 60W features an autofocus function for precise laser head positioning. Simply press the autofocus button, and the machine will automatically adjust the laser head to the correct focal distance for your material.

Rapid Automatic Focusing

Experience the Convenience of Hands-Free,
Contactless Adjustments for Precise Positioning



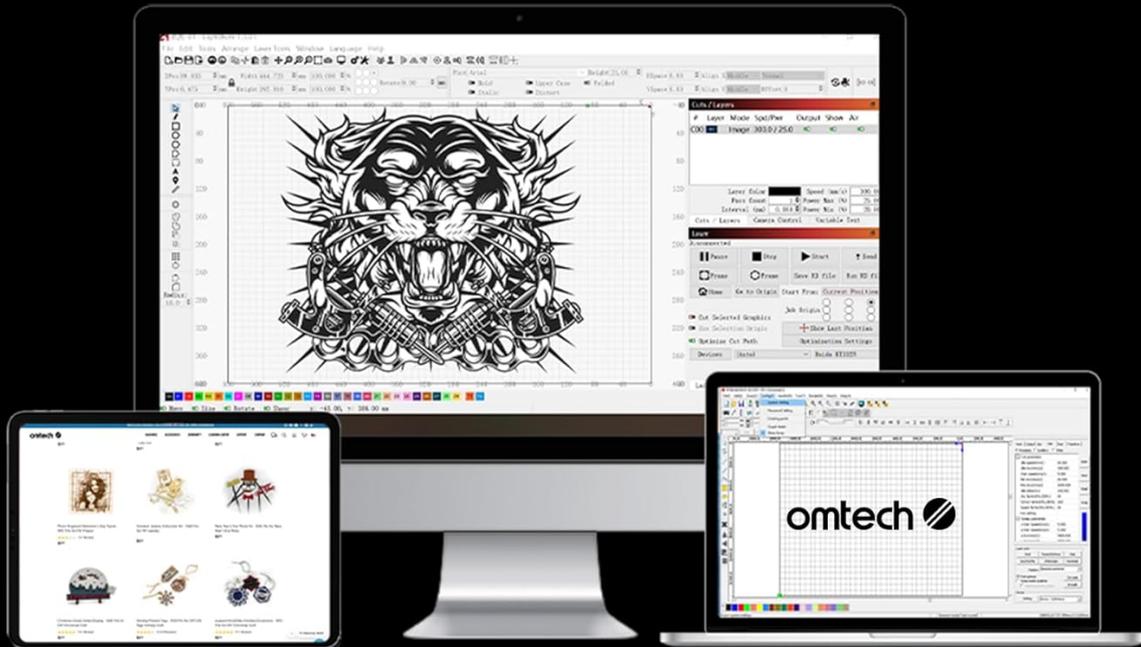
Figure 3: The rapid automatic focusing system ensures precise positioning.

3.3 Software Operation and Job Execution

- Import or create your design in LightBurn.
- Set appropriate power and speed settings for your material. The machine supports engraving speeds up to 1,000 mm/s.
- Initiate the job from the software. The laser will begin the engraving or cutting process.

Wide Compatibility

Compatible Software: LightBurn, RDworks, CorelLaser, and more



LightBurn



RDworks



CorelLaser

Figure 4: The laser engraver is compatible with LightBurn, RDWorks, and CorelLaser.

3.4 Two-Way Pass-Through

The machine features two-way pass-through doors, allowing you to work with materials larger than the workbed itself. This is ideal for extended projects.

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Video 1: Demonstration of the CO2 Laser Engraver and Cutter with Autofocus, showcasing its operational features.

4. MAINTENANCE

Regular maintenance ensures the longevity and consistent performance of your laser engraver.

4.1 Cleaning the Work Area

- After each use, clean the workbed and interior of the machine to remove debris and residue.
- The effective air pump and 318 cfm turbo exhaust fan help keep dust and debris at bay.



Figure 5: The air pump and exhaust fan system for maintaining a clean workspace.

4.2 Laser Lens and Mirror Cleaning

- Periodically inspect and clean the laser lens and mirrors using appropriate cleaning solutions and techniques to maintain laser beam quality.

4.3 Water Chiller Maintenance

- Monitor the water level and temperature in the chiller.
- Replace the cooling water regularly as per the chiller's instructions to prevent algae growth and maintain cooling efficiency.

5. SAFETY FEATURES

Your OMTech Pronto 60W laser engraver is equipped with several safety features to protect users during operation.

- **Cover Protection:** The machine features a protective cover that must be closed during operation.
- **Flame-Retardant PC Board:** A flame-retardant PC board is integrated to reduce the risk of fire.
- **Overheating Alert:** Built-in temperature sensors monitor the machine and alert you if conditions require attention, automatically stopping operation if overheating occurs.
- **Low-Pressure Alarm:** Pressure sensors trigger an alarm if air pressure drops, preventing potential risks.
- **Flame-Resistant Window:** Allows for safe observation of the engraving process.

Achieve Productivity Gains of up to 250–300% at

1000C mm/s

*Recommended Max Setup Speed: 800mm/s

 400 mm	<p>OMTech 39 min. 28 sec.</p> <p>Others 73 min. 41 sec.</p> <p>Material: Acrylic Power: 100% Speed: 10 mm/s</p>	 1000 mm
 300 mm	<p>OMTech 38 min. 27 sec.</p> <p>Others 72 min. 34 sec.</p> <p>Material: Stone Power: 30% Speed: 400 mm/s</p>	<p>OMTech 95 min. 30 sec.</p> <p>Others 207 min. 53 sec.</p> <p>Material: MDF Power: 90% Speed: 10%</p>

Figure 6: Overview of the reliable safety features.

6. MATERIALS COMPATIBILITY

The OMTech Pronto 60W CO2 Laser Engraver is versatile, capable of working with a wide range of non-metallic materials.

Material Compatibility Chart

Suitable for Engraving	Suitable for Cutting
Acrylic	Acrylic (up to 0.8")
Wood (up to 0.4")	Wood (up to 0.4")
Leather	Leather
Fabric	Fabric
MDF	MDF
Cardboard	Cardboard
Rubber	Rubber
Paper	Paper
Glass	Plastic
Marble	Foam
Foam	
Fiber Glass	

Note: Always perform small test cuts or engravings on new materials to determine optimal power and speed settings.



Figure 7: Example of wood materials suitable for engraving and cutting.

7. SPECIFICATIONS

Feature	Detail
Model Number	Pronto35
Laser Class	2
Output Power	0.874 mW
Rated Power	60W
Work Area	28" x 20"
Max. Engraving Speed	1,000 mm/s
Max. Work Height	8.7" (Adjustable Workbed)
Autofocus	Yes
Pass-Throughs	2-Way
Air Assist	Built-in
Exhaust Fan	318 cfm turbo
Software Compatibility	RDWorks, CorelLaser, LightBurn

8. TROUBLESHOOTING

This section provides general guidance for common issues. For specific problems, refer to the detailed troubleshooting guide available on the OMTech support website or contact customer service.

8.1 Laser Not Firing

- Check if the machine is powered on and the emergency stop button is disengaged.
- Ensure the lid is fully closed and the safety interlocks are activated.
- Verify that the water chiller is running and the laser tube is adequately cooled.
- Confirm software settings for laser power and frequency are correctly configured.

8.2 Poor Engraving/Cutting Quality

- Check the focus of the laser. Re-run the autofocus function.
- Inspect the laser lens and mirrors for cleanliness and damage. Clean or replace as necessary.
- Adjust power and speed settings in your software. Different materials require different settings.
- Ensure the material is flat and secured on the workbed.

8.3 Machine Not Responding

- Restart the machine and your computer.
- Check all cable connections (USB, Ethernet, power).
- Verify that the correct drivers are installed and the software recognizes the machine.

9. WARRANTY AND SUPPORT

OMTech provides comprehensive support for your laser engraver.

- **Warranty:** The product comes with 2 years of comprehensive service.
- **Technical Support:** Access to a 24/7 global support team and U.S.-based technical support.
- **Customer Service:** 24/7 online customer service is available for inquiries.
- **Local Demos:** Local demonstrations can be arranged by appointment.

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Video 2: An overview of OMTech Laser Engravers, highlighting their features and support.

10. ADDITIONAL RESOURCES

For more information, tutorials, and accessories, visit the official OMTech website or your local dealer.

- [Visit the OMTech Store](#)