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› [ATOMSTACK](#) /

› ATOMSTACK A10 PRO V2 Laser Engraver User Manual

ATOMSTACK A10 PRO V2 Black

ATOMSTACK A10 PRO V2 Laser Engraver User Manual

Model: A10 PRO V2 Black

1. INTRODUCTION

The ATOMSTACK A10 PRO V2 Laser Engraver is a high-precision, reliable laser cutting and engraving machine designed for a wide range of materials including wood, metal, dark acrylic, glass, and leather. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your device to ensure optimal performance and safety.



Figure 1.1: ATOMSTACK A10 PRO V2 Laser Engraver and examples of its capabilities.

Key Features:

- **High Precision & Reliable Operation:** Features double pressure point coupling technology and a 10W laser power with a unique point compression technology, achieving a spot size of only 0.06 x 0.08 mm.
- **Fast Engraving Speed & Strong Cutting Performance:** Engraving speed up to 400 mm/s, capable of cutting 8mm Paulownia and 5mm black acrylic in one pass.
- **Easy Assembly & Use:** Quick and straightforward assembly process with a large engraving area of 410 x 380 mm.
- **Extreme Expandability & Extensive Accessories:** Connects via Type-C and USB cable, compatible with Lightburn, LaserGRBL, AtomStack PC, and AtomStack APP.
- **Enhanced Safety:** Includes a removable magnetic laser protective cover and safety glasses to protect eyes during operation. Features a flame detector and gyroscope for added safety.

ATOMSTACK A10 PRO V2

Big Upgrade, Small Budget



Mobile App
control



Upgraded 10W
laser output



400mm/s
high speed



8mm wood board
5mm black acrylic in one pass

Figure 1.2: Overview of ATOMSTACK A10 PRO V2 key features.

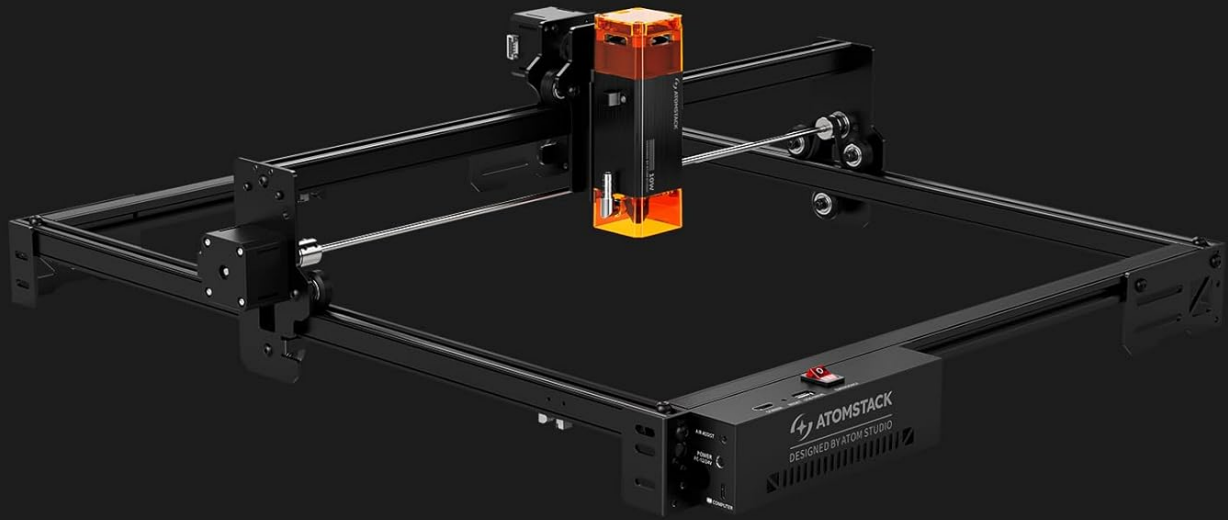
2. SETUP

Follow these steps to assemble and prepare your ATOMSTACK A10 PRO V2 for first use.

2.1 Unboxing and Component Check

Carefully unbox all components and verify against the packing list. Ensure all parts are present and undamaged.

Lista di imballaggio



Kit di installazione



Cavo di alimentazione



Adattatore di corrente



Pen drive USB



Cavo Tipo C



Cavo di collegamento asse X



Piastrine di messa a fuoco



Occhiali da sicurezza



Manuale del prodotto

Figure 2.1: All components included in the ATOMSTACK A10 PRO V2 package.

2.2 Assembly Instructions

The ATOMSTACK A10 PRO V2 is designed for quick and easy assembly. Refer to the official installation guide video for a visual walkthrough.

Your browser does not support the video tag.

Video 2.1: Official ATOMSTACK A10 PRO V2 Installation Guide. This video demonstrates the step-by-step assembly process of the laser engraver, from unboxing to final setup, ensuring proper connection of all parts.

Key Assembly Steps:

1. Assemble the main frame using the provided screws and tools.
2. Install the X-axis and Y-axis components, ensuring smooth movement.
3. Mount the laser module securely onto the carriage.
4. Connect all necessary cables, paying attention to correct insertion.

5. Ensure the machine is placed on a stable, level surface.

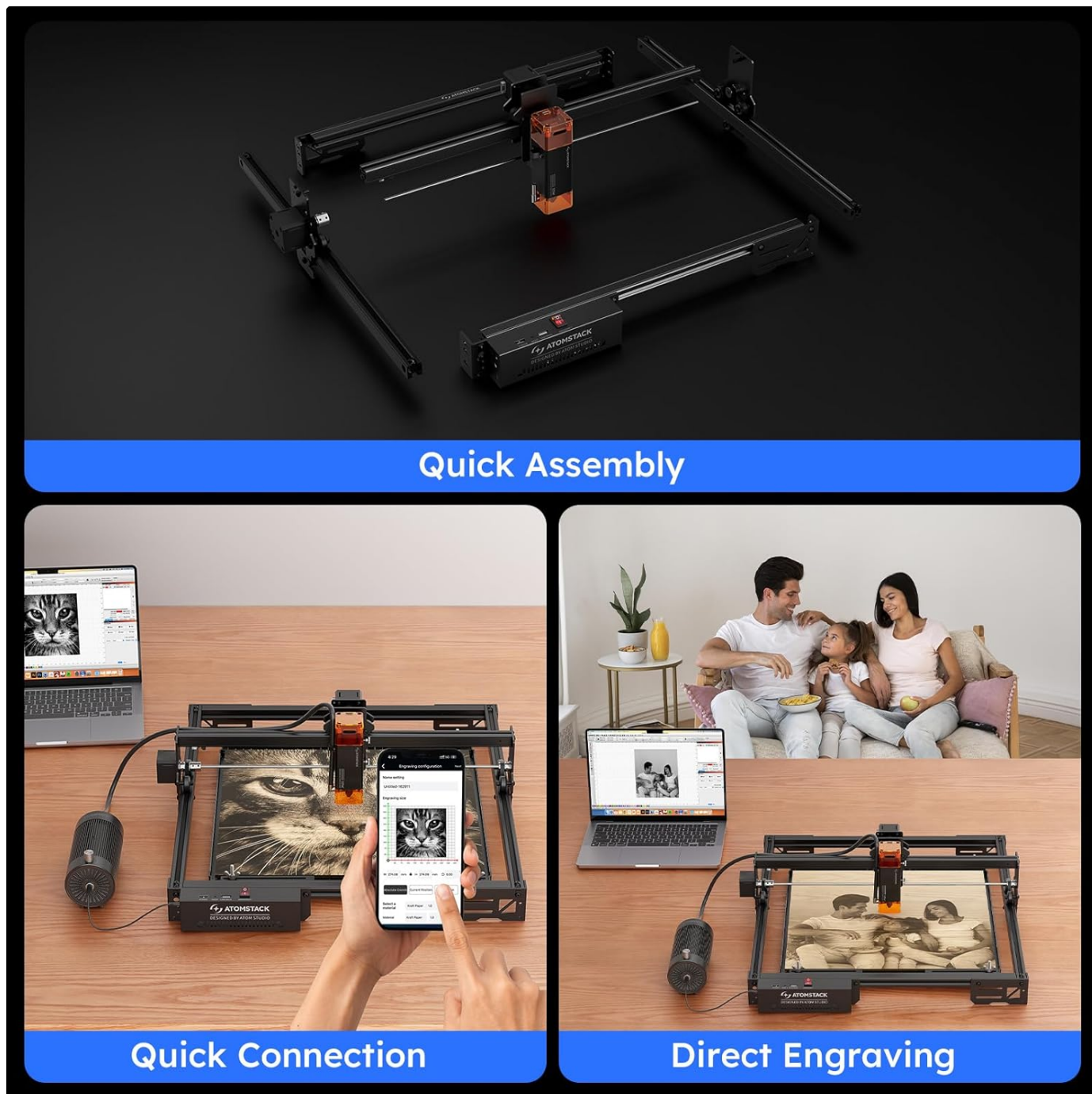


Figure 2.2: Visual representation of quick assembly, connection, and direct engraving capabilities.

2.3 Initial Power-Up and Software Installation

After assembly, connect the power adapter. Download and install the necessary software (Lightburn, LaserGRBL, AtomStack PC, or AtomStack APP) on your computer or mobile device. Follow the software's instructions for initial setup and connection to the engraver.

3. OPERATING INSTRUCTIONS

This section covers the basic operation of your ATOMSTACK A10 PRO V2 laser engraver.

3.1 Material Preparation and Placement

Prepare your material (wood, metal, acrylic, etc.) and place it within the engraving area (410mm x 380mm). Ensure the material is flat and securely positioned to prevent movement during operation.



Figure 3.1: Large working area of the ATOMSTACK A10 PRO V2.

3.2 Software Interface and Design Loading

Open your chosen software (Lightburn, LaserGRBL, AtomStack PC, or AtomStack APP). Load your design file (JPG, JPEG, SVG, PNG, BMP, PDF, G-Code, DXF). Use the software to adjust the design's position and size within the engraving area. The phone app allows for direct operation and framing of designs, showing exactly where the laser will burn.

Your browser does not support the video tag.

Video 3.1: Demonstration of the ATOMSTACK A10 PRO V2 Laser Engraving Machine in operation. This video highlights the machine's capabilities in engraving intricate designs on various materials, showcasing its precision and speed.

3.3 Engraving and Cutting Process

Once your design is loaded and positioned, set the laser parameters (power, speed, passes) according to your material and desired outcome. The A10 PRO V2 offers high precision with a 0.06 x 0.08 mm spot size and can engrave at speeds up to 400 mm/s.



Figure 3.2: High productivity with 400mm/s engraving speed.

10W

ONE PASS



Paulownia

ONE PASS



Black Acrylic

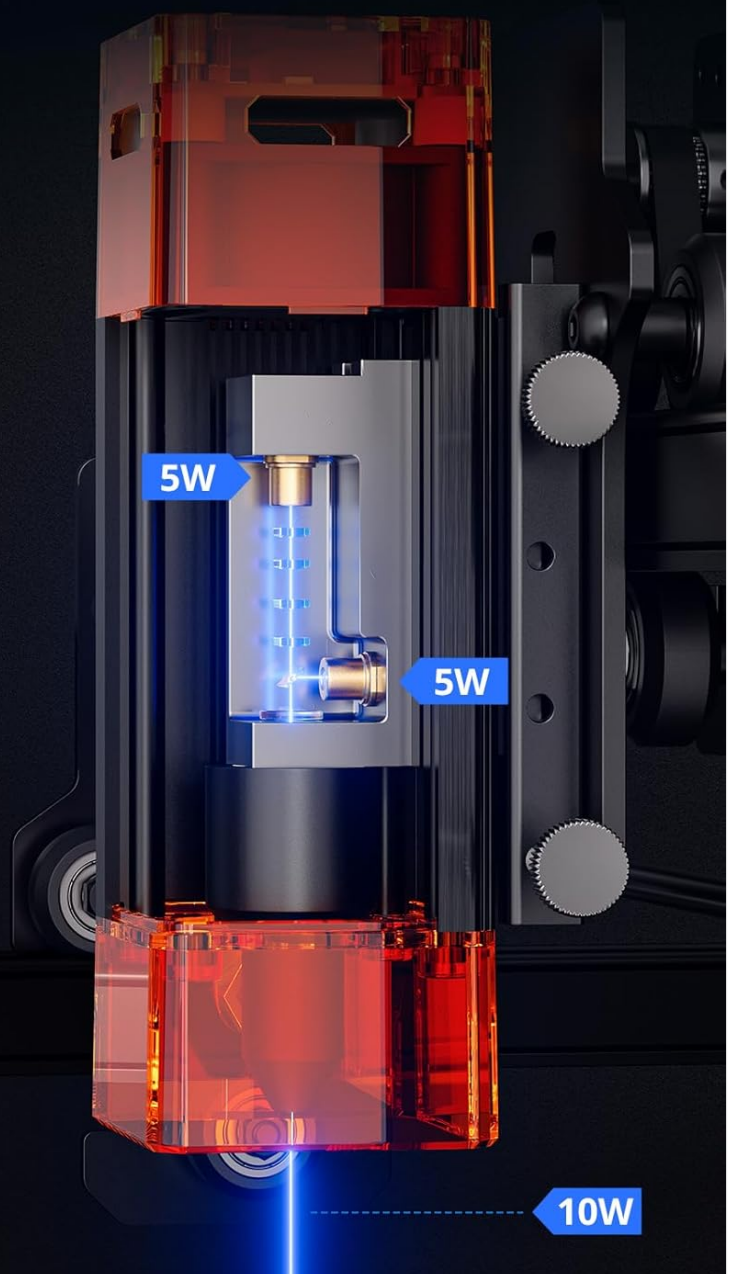


Figure 3.3: 10W laser power for efficient cutting.

0.01mm Precision Engraving

0.01mm



Comparison of Engraving Accuracy

A10 PRO V2

Spot Size
0.06*0.08mm

Others

Spot Size
0.15*0.15mm

Figure 3.4: Achieving 0.01mm precision engraving.

3.4 Safety Features

The A10 PRO V2 includes important safety features:

- **Flame Detector:** Triggers an alarm if flames are detected during operation.
- **Gyroscope:** Activates an alarm if the machine is tilted or moved unexpectedly.
- **Eye Protection:** The magnetic filter cover blocks 97% of intense light. Always wear the included safety glasses during operation.

Safe to Use

Flame Detector



Gyroscope



Figure 3.5: Built-in safety features: Flame Detector and Gyroscope.

An optional automatic air assist system can be purchased separately to improve cutting performance and reduce burn marks.

4. MAINTENANCE

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

4.1 Cleaning the Laser Module and Lens

Periodically clean the laser module and lens to prevent residue buildup, which can affect laser performance. Use a soft, lint-free cloth and appropriate lens cleaning solution. Ensure the machine is powered off before cleaning.

4.2 Cleaning the Rails and Belts

Keep the guide rails and belts free from dust and debris. Wipe them down with a clean cloth. Check belt tension regularly and adjust if necessary to maintain engraving accuracy.

4.3 General Inspection

Regularly inspect all screws and connections to ensure they are tight and secure. Check for any signs of wear or damage on cables and moving parts.

5. TROUBLESHOOTING

This section addresses common issues you might encounter and provides potential solutions.

Problem	Possible Cause	Solution
Laser not firing	Loose cable connection, laser module issue, software settings.	Check all cable connections. Verify laser power settings in software. Contact support if issue persists.
Engraving is blurry or inconsistent	Incorrect focus, loose belts, dirty lens, unstable material.	Ensure proper focus. Check and tighten belts. Clean the laser lens. Secure material firmly.
Machine not connecting to computer/app	Incorrect cable, driver issue, software conflict.	Use the correct Type-C or USB cable. Reinstall drivers. Try a different USB port or restart software/device.
Machine makes unusual noises	Loose components, debris on rails, motor issue.	Inspect for loose screws. Clean rails. If motor noise, contact support.

If you encounter problems not listed here or if the suggested solutions do not resolve the issue, please contact ATOMSTACK customer support for assistance.

6. SPECIFICATIONS

Feature	Detail
Brand	ATOMSTACK
Model	A10 PRO V2 Black
Laser Power	10W
Spot Size	0.06 x 0.08 mm
Engraving Speed	Up to 400 mm/s
Engraving Area	410 x 380 mm (16.14 x 14.96 inches)

Feature	Detail
Product Dimensions	9.84 x 6.89 x 23.03 inches
Item Weight	12.38 pounds
Connectivity	Type-C, USB, Bluetooth (via app)
Supported Software	Lightburn, LaserGRBL, AtomStack PC, AtomStack APP
Supported File Formats	JPG, JPEG, SVG, PNG, BMP, PDF, G-Code, DXF
Country of Origin	China

7. WARRANTY AND SUPPORT

ATOMSTACK is committed to providing high-quality products and excellent customer service.

7.1 Product Warranty

The ATOMSTACK A10 PRO V2 Laser Engraver comes with a **1-year warranty** from the date of receipt. This warranty covers manufacturing defects and ensures product reliability.

7.2 Customer Support

Our professional technical and support teams are available 24/7 to assist you with any questions or issues. If you encounter any problems, please contact us directly via the Amazon platform. Our technicians will provide a solution within 24 hours.

For further assistance, you may also visit the official ATOMSTACK Store:[ATOMSTACK Official Store](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

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

Submit question