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› ANYCUBIC Mega Pro 3D Printer: 3D Printing and Laser Engraving User Manual

ANYCUBIC Mega Pro

ANYCUBIC Mega Pro 3D Printer: 3D Printing and Laser Engraving User Manual

Comprehensive instructions for setup, operation, and maintenance of your ANYCUBIC Mega Pro.

INTRODUCTION

The ANYCUBIC Mega Pro is a versatile 4th generation 2-in-1 FDM 3D printer and laser engraver. This manual provides detailed guidance to help you effectively use both the 3D printing and laser engraving functionalities. It is designed for ease of use, featuring smart auxiliary leveling, multi-color printing, a silent drive, filament detection, and print resume capabilities. The printer offers a build volume of 8.27" x 8.27" x 8.07" for 3D printing and an engraving area of 8.67" x 5.5" for laser projects.

Multi-Function 3D Printer

2 in 1 machine for 3d printing and laser engraving, multiple functions to realize your creative potential

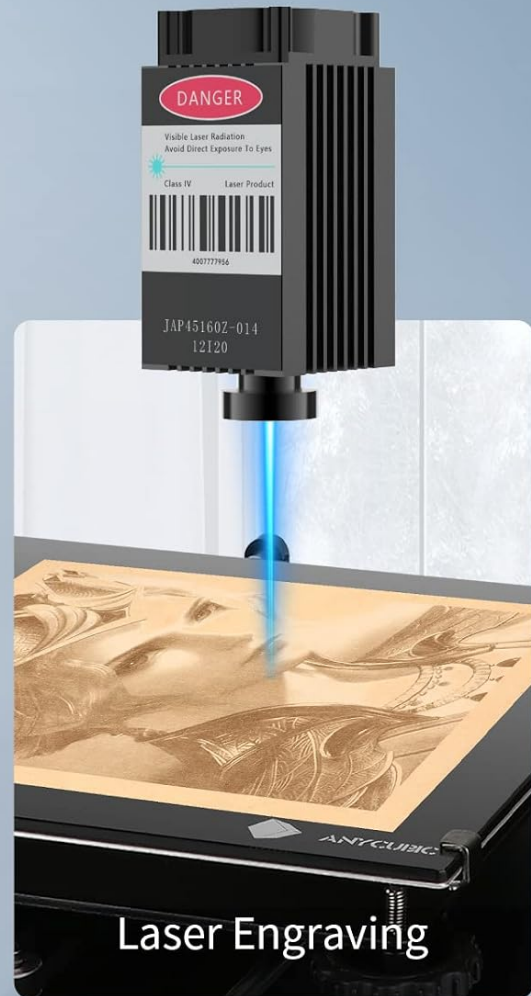
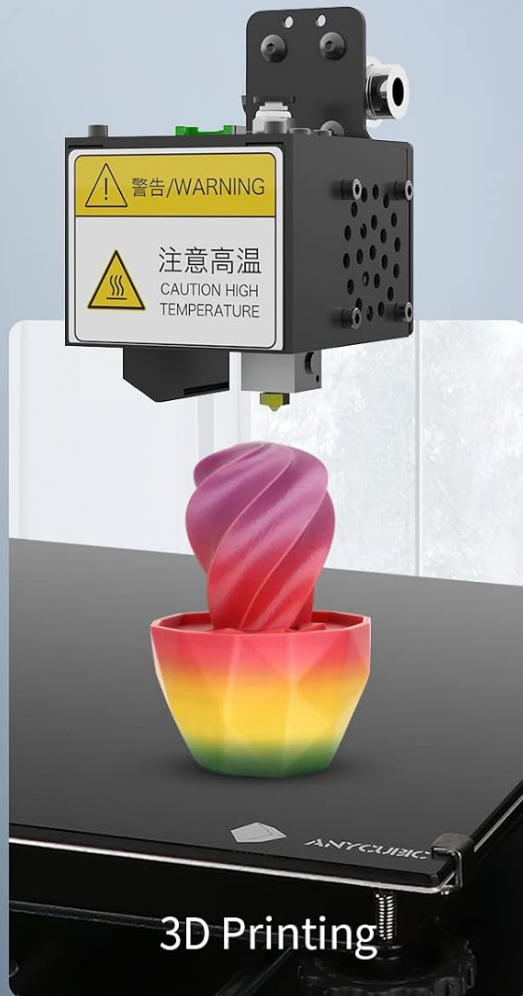


Image: The ANYCUBIC Mega Pro demonstrating its dual functionality for 3D printing and laser engraving.

SETUP

The ANYCUBIC Mega Pro features a modular design for quick and straightforward assembly. Follow these steps to set up your printer:

1. **Unpacking:** Carefully remove all components from the packaging. Verify that all parts listed in the packing list are present.
2. **Base and Frame Assembly:** Attach the printer frame to the base unit using the provided screws. Ensure all connections are secure.
3. **Filament Rack Installation:** Mount the filament rack onto the designated position, typically on the side or rear of the printer.
4. **Cable Connections:** Connect all necessary cables, including power, USB, and any internal connections between the frame and base.
5. **Initial Power On:** Connect the power supply and turn on the printer.

6. **Bed Leveling:** The printer is equipped with smart auxiliary leveling tools. Follow the on-screen instructions to automatically locate leveling spots and adjust the print head height. It is recommended to perform bed leveling several times during the first heat cycle.



Image: Exploded view illustrating the modular components (Base, Frame, Filament Rack) for easy assembly.

Your browser does not support the video tag.

Video: Official product overview of the ANYCUBIC Mega Pro 3D Printer, demonstrating its features and capabilities.

OPERATION

3D Printing

- **Filament Loading:** Insert the filament into the extruder. The improved design facilitates easier loading.
- **Multi-Color Printing:** The printer supports multi-color printing by allowing you to pause at specific layers. This enables seamless filament changes for models requiring different colors. Up to 6 pauses are supported for color changes.
- **Smart Auxiliary Leveling:** Utilize the intelligent leveling tools for precise print head height adjustment. The system

provides beep alerts to guide you through the process.

- **Filament Detection:** The integrated sensor will pause printing and issue an alarm if the filament runs out or breaks, preventing failed prints.
- **Resume Print Function:** In case of a power outage, the printer can resume printing from the last recorded position, saving your progress.
- **Quiet Operation:** Equipped with TMC2208 silent drives, the printer operates at less than 55dB, providing a quieter printing environment.

Multi-Color & Accurate Printing

Offers the option to pause at a specific layer
Provides you with more accurate and multi-color models

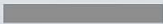


Image: The printer's interface displaying options for multi-color printing, alongside an example of a multi-colored 3D printed object.

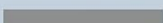
2 Times the Diameter of Mega S



- ▶ 60% less effort than usual leveling

Now 
Before 

- ▶ 2X larger than usual diameter

Now 
Before 

60%+ 
Faster

*Based on the test results of Anycubic lab., for reference only.

Image: Visual comparison of the previous and current leveling wheel designs, highlighting the larger diameter for easier adjustment.

Ultra-Quiet < 55dB

TMC2208 Stepper Drivers,
Like the sound of a desktop computer host run



20-40dB



40-50dB



50-60dB



70-80dB



*Based on the test results of Anycubic lab., for reference only.

Image: An illustration of the printer's ultra-quiet operation, suitable for various environments.

Decoration



Art Design



Creative Life



Personalization



Image: Examples of various items that can be laser engraved, showcasing the detail and versatility of the laser module.

Laser Engraving

The ANYCUBIC Mega Pro integrates a laser engraving module for creative projects. To use this feature:

1. **Module Installation:** Securely attach the laser engraving module to the print head.
2. **Material Preparation:** Place the material to be engraved on the print bed. Ensure it is flat and properly secured.
3. **Software Setup:** Prepare your design using compatible software. Convert images to bitmap format for optimal engraving results.
4. **Focus and Power Adjustment:** Adjust the laser's focal length based on material thickness and set the appropriate power level for your material (e.g., paper, leather, wood).
5. **Engraving Process:** Initiate the engraving process. The printer may outline the engraving area to assist with positioning.
6. **Safety:** Always wear the provided eye protection when operating the laser engraver. Ensure adequate ventilation as engraving can produce smoke.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your ANYCUBIC Mega Pro. Perform the following tasks periodically:

- **Clean the Print Bed:** After each print, clean the print bed surface to remove any residue. This helps maintain good adhesion for future prints.
- **Nozzle Inspection:** Regularly check the nozzle for clogs or wear. Replace if necessary to ensure consistent extrusion.
- **Lubricate Moving Parts:** Apply a small amount of lubricant to the linear rods and lead screws to ensure smooth movement of the print head and bed.
- **Firmware Updates:** Check the official ANYCUBIC website for any available firmware updates to improve performance and add new features.
- **Cable Management:** Ensure all cables are properly routed and secured to prevent strain or interference with moving parts.
- **Laser Module Cleaning:** Gently clean the laser lens to ensure clear output for engraving.

TROUBLESHOOTING

This section addresses common issues you might encounter with your ANYCUBIC Mega Pro.

Problem	Possible Cause	Solution
Poor Bed Adhesion	Improper bed leveling, dirty print surface, incorrect print temperature.	Re-level the print bed using the auxiliary leveling function. Clean the print surface with isopropyl alcohol. Adjust bed and nozzle temperatures according to filament specifications.
Filament Not Extruding	Clogged nozzle, tangled filament, incorrect temperature, extruder motor issue.	Clear the nozzle using a needle or cold pull method. Ensure filament is not tangled and feeds smoothly. Verify correct print temperature for the filament. Check extruder gears for proper engagement.
Print Quality Issues (Layer Shifts, Stringing)	Loose belts, incorrect print speed, retraction settings, or temperature.	Check and tighten X and Y axis belts. Adjust print speed. Optimize retraction settings in your slicer software. Verify print temperatures.
SD Card Not Recognized / Files Not Showing	Corrupted SD card, incompatible file format, long filenames.	Format the SD card (FAT32). Ensure G-code files are saved with simple, short filenames. Try a different SD card.
Laser Engraving Inaccurate / Faint	Incorrect focus, insufficient laser power, dirty lens, material properties.	Adjust the laser focus. Increase laser power settings. Clean the laser lens. Test on different materials to find optimal settings.

SPECIFICATIONS

Feature	Detail
Model	Mega Pro

Feature	Detail
Product Dimensions	16.14 x 15.94 x 17.83 inches (410 x 405 x 453 mm)
Item Weight	30.1 pounds (13.65 kg)
Printing Technology	FDM (Fused Deposition Modeling)
Printing Size	8.27" x 8.27" x 8.07" (210 x 210 x 205 mm)
Engraving Size	8.67" x 5.5" (220 x 140 mm)
Material	Metal
Color	Black
Silent Drivers	TMC2208
Leveling	Smart Auxiliary Leveling
Additional Features	Filament Detection, Resume Print, Multi-Color Printing (up to 6 pauses)

WARRANTY INFORMATION

ANYCUBIC 3D printers are backed with a manufacturer's warranty. Please refer to the official ANYCUBIC website or the included warranty card for specific terms and conditions regarding your product's warranty period and coverage.

CUSTOMER SUPPORT

For technical assistance, troubleshooting, or any inquiries regarding your ANYCUBIC Mega Pro, please contact our professional customer service team. We offer lifetime technical support and 24-hour customer service.

- **Online Support:** Visit the official ANYCUBIC website for FAQs, support articles, and contact forms.
- **Email Support:** Refer to your product documentation for the dedicated support email address.
- **Documents:** Additional resources such as the full user manual and installation manual are available in PDF format:
 - [User Manual \(PDF\)](#)
 - [Installation Manual \(PDF\)](#)

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