

xTool M1 Ultra

xTool M1 Ultra 4-in-1 User Manual

Model: M1 Ultra | Brand: xTool

1. INTRODUCTION

The xTool M1 Ultra is a versatile 4-in-1 crafting machine designed for a wide range of creative projects. It integrates laser engraving, inkjet printing, blade cutting, and pen drawing functionalities into a single device. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your M1 Ultra machine.



Figure 1: The xTool M1 Ultra 4-in-1 machine.

2. PRODUCT FEATURES

- **4-in-1 Multi-Functionality:** The xTool M1 Ultra combines laser engraving, inkjet printing, blade cutting, and pen drawing capabilities in one tool. It includes an inkjet module for diverse creative options.
- **Faster and Thicker Material Cutting:** Equipped with a 20W laser, this machine can cut 10mm wood and 8mm opaque

acrylic in a single pass, offering twice the speed of a 10W model. It also engraves vibrant patterns on metal.

- **Multitasking for Enhanced Efficiency:** Features an Easy Swap design for module changes in just 3 seconds. Provides precise preview and positioning for detailed and complex projects, ensuring an efficient workflow.
- **Unlimited Creativity with Over 1,000 Materials:** Compatible with more than 1,000 materials, from vinyl and cardstock to wood and curved 3D surfaces. Ideal for personalized items, decorations, gifts, and cards.
- **Safe, User-Friendly, and Home-Ready:** A pre-assembled Class 1 laser engraver designed for safe home use. Ready to operate without additional installation. Compatible with xTool XCS software, which includes over 6,000 designs and editing tools.
- **Package Contents:** 1 x M1 Ultra Machine, 1 x Inkjet Printing Module, 4 x Cutting Tools (fine-point blade, cutting blade, rotary blade, foil transfer tip), 8 x Color Markers.



Figure 2: The xTool M1 Ultra demonstrating inkjet and laser module capabilities.



Figure 3: The xTool M1 Ultra demonstrating fine-point blade and pen drawing capabilities.

3. SETUP

1. **Unboxing:** Carefully remove all components from the packaging. Verify that all items listed in the 'Package Contents' section are present.
2. **Placement:** Place the xTool M1 Ultra on a stable, level surface in a well-ventilated area. Ensure there is sufficient space around the machine for operation and material handling.
3. **Power Connection:** Connect the power adapter to the machine and then to a suitable power outlet.
4. **Software Installation:** Download and install the xTool XCS software on your computer. Follow the on-screen instructions for installation and initial setup.
5. **Module Installation:** Install the desired module (laser, inkjet, blade, or pen) into the machine's carriage. Refer to the specific module's instructions for proper installation.

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**Dale más que un
simple regalo.**



Figure 4: Overview of the xTool M1 Ultra setup and workspace.

4. OPERATING INSTRUCTIONS

The xTool M1 Ultra is designed for ease of use with its intuitive software. Follow these general steps for operation:

1. **Prepare Your Material:** Place your chosen material securely on the machine's workbed. Ensure it is flat and properly aligned.
2. **Design in XCS Software:** Open the xTool XCS software on your computer. Create or import your design. The software offers over 6,000 designs and various editing tools.
3. **Select Operation Mode:** Choose the desired operation mode (Laser Engraving, Laser Cutting, Blade Cutting, Inkjet Printing, or Pen Drawing) within the software.
4. **Adjust Settings:** Based on your material and desired outcome, adjust parameters such as power, speed, and passes. The software provides over 500 preset parameters for common materials.
5. **Preview and Position:** Utilize the machine's preview and precise positioning features to ensure your design will be executed correctly on the material.
6. **Start Operation:** Once satisfied with the settings and preview, initiate the operation from the software. Monitor the process and ensure proper ventilation.



Figure 5: The simple 3-step process for using the xTool M1 Ultra: Place Material, Design and Start, Ready.

XTOOL

Define X con tu creación

En xTool, nos esforzamos por ofrecer herramientas que ayuden a creadores y artesanos a descubrir las posibilidades de la X desconocida.

Nuestros productos son la herramienta a la que recurren quienes desean personalizar regalos, añadir intrincados diseños a productos o crear impresionantes obras de arte. Juntos, podemos grabar tu historia en el mundo.

Figure 6: The xTool XCS software interface, highlighting its ease of use and design capabilities.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your xTool M1 Ultra.

- **Cleaning the Work Area:** After each use, clean the workbed and surrounding areas to remove dust, debris, and material scraps.
- **Module Cleaning:** Depending on the module used, specific cleaning may be required. For laser modules, ensure the lens is clean. For blade modules, check for debris. For inkjet, follow instructions for nozzle cleaning.
- **Waste Management:** Regularly empty the waste collection tray or dispose of material scraps appropriately.
- **Software Updates:** Keep your xTool XCS software updated to benefit from the latest features and performance improvements.



Figure 7: Accessories and tools for maintaining the xTool M1 Ultra.

6. TROUBLESHOOTING

If you encounter issues with your xTool M1 Ultra, refer to the following common troubleshooting tips:

- **Machine Not Powering On:** Check the power cable connection and ensure the power outlet is functional.
- **Software Connection Issues:** Verify your computer's connection to the machine (USB or Wi-Fi) and restart both the software and the machine.

- **Poor Engraving/Cutting Quality:** Ensure the material is correctly placed, the module is properly installed, and the settings (power, speed, focus) are appropriate for your material. Clean the laser lens if using the laser module.
- **Blade Not Cutting:** Check if the blade is sharp and correctly installed. Ensure the material is not too thick for the blade.
- **Inkjet/Pen Issues:** Verify ink levels or pen installation. Clean inkjet nozzles if necessary.
- **Unusual Noises:** Power off the machine immediately and inspect for any obstructions or loose parts.

For more detailed troubleshooting or persistent issues, please consult the official xTool support resources or contact customer service.

7. SPECIFICATIONS

Specification	Value
Manufacturer	Makeblock Co., Ltd.
Product Model Number	xTool M1 Ultra
Product Dimensions	30 x 60 x 84 cm
Product Weight	24 kg
Color	Silver or Grey
Material	Metal or Alloy Steel
Power Source	AC/DC
Included Components	xTool M1 Ultra Basic 20W (machine, inkjet module, 4 cutting tools, 8 color markers)
Batteries Required	No

8. SAFETY INFORMATION

The xTool M1 Ultra is a Class 1 laser product, designed with safety in mind for home environments. Always adhere to the following safety guidelines:

- **Supervision:** Do not leave the machine unattended during operation, especially when children or pets are nearby.
- **Ventilation:** Ensure adequate ventilation in your workspace to dissipate fumes and odors produced during laser engraving or cutting.
- **Eye Protection:** Although a Class 1 device, always use appropriate laser safety glasses when operating the laser module, especially if the lid is open or during maintenance.
- **Material Compatibility:** Only use materials approved for laser processing. Certain materials can produce toxic fumes or catch fire.
- **Emergency Stop:** Familiarize yourself with the location of the emergency stop button and how to quickly power off the machine.
- **Lid Safety:** The machine is equipped with a safety interlock that stops operation if the lid is opened during laser processing. Do not bypass this safety feature.



Figure 8: The xTool M1 Ultra includes safety features like a lid sensor and effective smoke extraction.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official xTool website or contact their customer support team. Keep your purchase receipt as proof of purchase for warranty claims.

10. PRODUCT VIDEOS

No official product videos for the xTool M1 Ultra were provided by the seller in the available data. Please refer to the manufacturer's official website or product page for any available video demonstrations or tutorials.

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