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xTool M2 10W

xTool M2 10W Laser Engraver User Manual

Model: M2 10W

1. Introduction

This manual provides essential information for the safe and effective operation of your xTool M2 10W Laser Engraver. The xTool M2 is a Class 1 enclosed laser engraver featuring a dual camera system for precise positioning and a 10W diode laser for cutting and engraving various materials. It is designed for both beginners and experienced crafters, offering versatility for personalized projects.



Image 1.1: The xTool M2 10W Laser Engraver, a compact and enclosed unit.

2. Safety Information

The xTool M2 is a Class 1 laser product, designed with safety features for home and workshop use. Adhere to all safety guidelines to prevent injury and ensure proper operation.

2.1 General Safety Precautions

- Always operate the machine with the protective cover closed.
- Do not look directly at the laser beam.
- Ensure proper ventilation during operation. The integrated Air Assist helps remove smoke, but additional ventilation may be required depending on the material.
- Keep children and pets away from the machine during operation.
- Do not leave the machine unattended while in use.
- Use only approved materials for engraving and cutting. Refer to the material compatibility guidelines.



Image 2.1: The xTool M2 is designed for safe use in family environments, featuring a fully enclosed cabin and real-time monitoring.

3. Setup

3.1 Unboxing and Component Check

Carefully unpack all components and verify against the following list:

- xTool M2 Main Unit

- 10W Diode Laser Module
- Module Connection Cable
- Power Adapter and Cable
- USB Cable and Adapter
- Exhaust Pipe
- Grease
- Hose Clamp
- Material Pack
- Magnetic Fixture (4 pieces)
- Hex Screwdriver
- Adhesive Tape
- M3*6 Screws (2 pieces)
- Instruction Card
- Safety Instructions

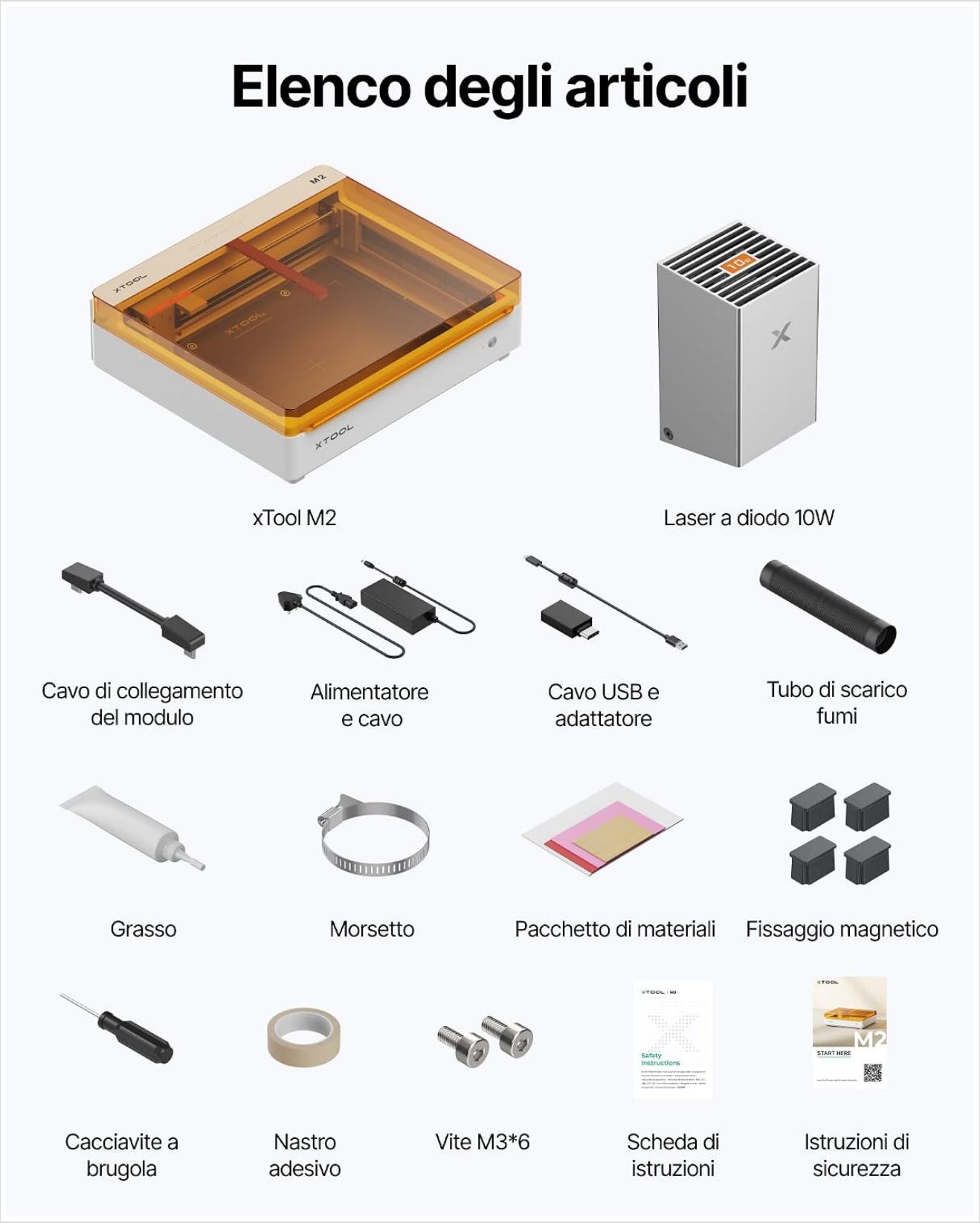


Image 3.1: All components included with the xTool M2 package.

3.2 Physical Installation

1. Place the xTool M2 on a stable, level surface.
2. Connect the power adapter to the machine and a power outlet.
3. Connect the USB cable to the machine and your computer.
4. Attach the exhaust pipe to the designated port on the machine and direct it to a well-ventilated area or an air filtration system.

3.3 Software Installation

Download and install the xTool Studio software from the official xTool website. Follow the on-screen instructions for installation and initial setup. The software is intuitive and includes an integrated AI image generator and templates.

4. Operating Instructions

4.1 Dual Camera "Position and Go" System

The xTool M2 features dual cameras that provide a real-time preview of the work area. This allows for precise placement of designs. The ACS algorithm enables a "Position and Go" experience, where designs can be dragged and dropped with the mouse, ensuring high accuracy and reducing material waste.



Image 4.1: The dual camera system provides an instant preview for precise design positioning.

4.2 Material Compatibility

The xTool M2 can engrave and cut over 300 types of materials, including but not limited to:

- Plexiglass
- Wood
- Felt
- Leather
- Cardboard



Image 4.2: Examples of diverse materials and creative projects achievable with the xTool M2.

4.3 Creating and Executing Projects

1. **Design in xTool Studio:** Use the software to create your design, import images, or utilize the AI image generator and pre-made templates.
2. **Material Placement:** Place your material inside the machine. The dual cameras will display the material in the software.
3. **Positioning:** Drag and drop your design onto the material preview in the software for accurate placement.
4. **Settings Adjustment:** Select the material type and adjust laser power and speed settings as needed. The software provides recommended settings.
5. **Start Operation:** Initiate the cutting or engraving process. The machine will automatically focus and begin.

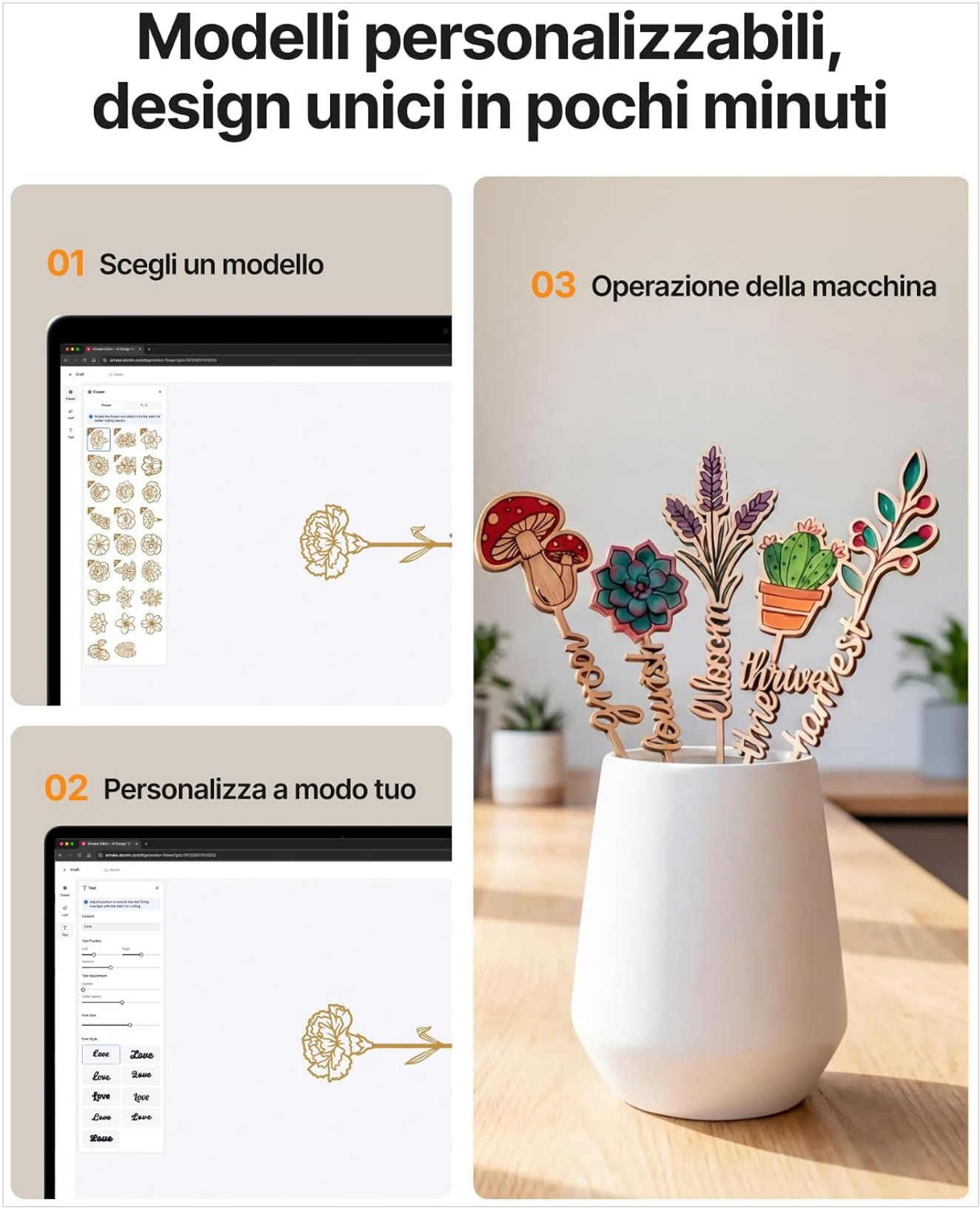


Image 4.3: Workflow for customizing templates and operating the machine.

4.4 Optional Modules (Sold Separately)

The xTool M2 supports modular upgrades to expand its capabilities:

- **CMYK Inkjet Module:** Enables color printing on various materials.
- **3W Infrared Laser:** For precision engraving on metal and plastic.
- **RA3 Lite Rotary Attachment:** Allows 360-degree rotary engraving on cylindrical objects without needing a riser base.



Image 4.4: Comparison showing enhanced print quality with the optional CMYK module.

5. Maintenance

Regular maintenance ensures optimal performance and longevity of your xTool M2.

- **Lens Cleaning:** The integrated Air Assist helps protect the lens by clearing smoke and debris. Periodically inspect and gently clean the laser lens according to the detailed instructions in the full user manual.
- **Work Area Cleaning:** Regularly clean the work area to remove dust and material residue.
- **Exhaust System:** Ensure the exhaust pipe is clear and free of obstructions to maintain efficient smoke extraction.
- **Lubrication:** Apply the provided grease to moving parts as instructed in the detailed manual to ensure smooth operation.

6. Troubleshooting

If you encounter issues with your xTool M2, consider the following common troubleshooting steps:

- **Connection Issues:** Ensure all cables (power, USB) are securely connected.
- **Software Not Responding:** Restart the xTool Studio software and/or your computer.
- **Poor Engraving/Cutting Quality:** Verify material settings (power, speed) are appropriate for the material being used. Ensure the material is flat and properly positioned.
- **Smoke/Fumes:** Check that the exhaust pipe is properly installed and not blocked. Ensure adequate room ventilation.
- **AI Problem Resolution:** The xTool Studio software includes AI-powered problem resolution tools that can assist in diagnosing and resolving common issues. Consult the software's help section for guidance.

For persistent issues, refer to the comprehensive troubleshooting guide available on the xTool support website or contact customer support.

7. Specifications

Feature	Specification
Model	xTool M2 10W
Laser Power	10W Diode Laser
Work Area	16.7" x 12.5" (426mm x 320mm)
Safety Class	Class 1 (Enclosed)
Camera System	Dual Camera with ACS Algorithm
Dimensions (Package)	69 x 62 x 27 cm
Weight (Item)	16.2 kg
Power Type	AC/DC



Image 7.1: Overview of the xTool M2's maximum work area and creative capabilities.

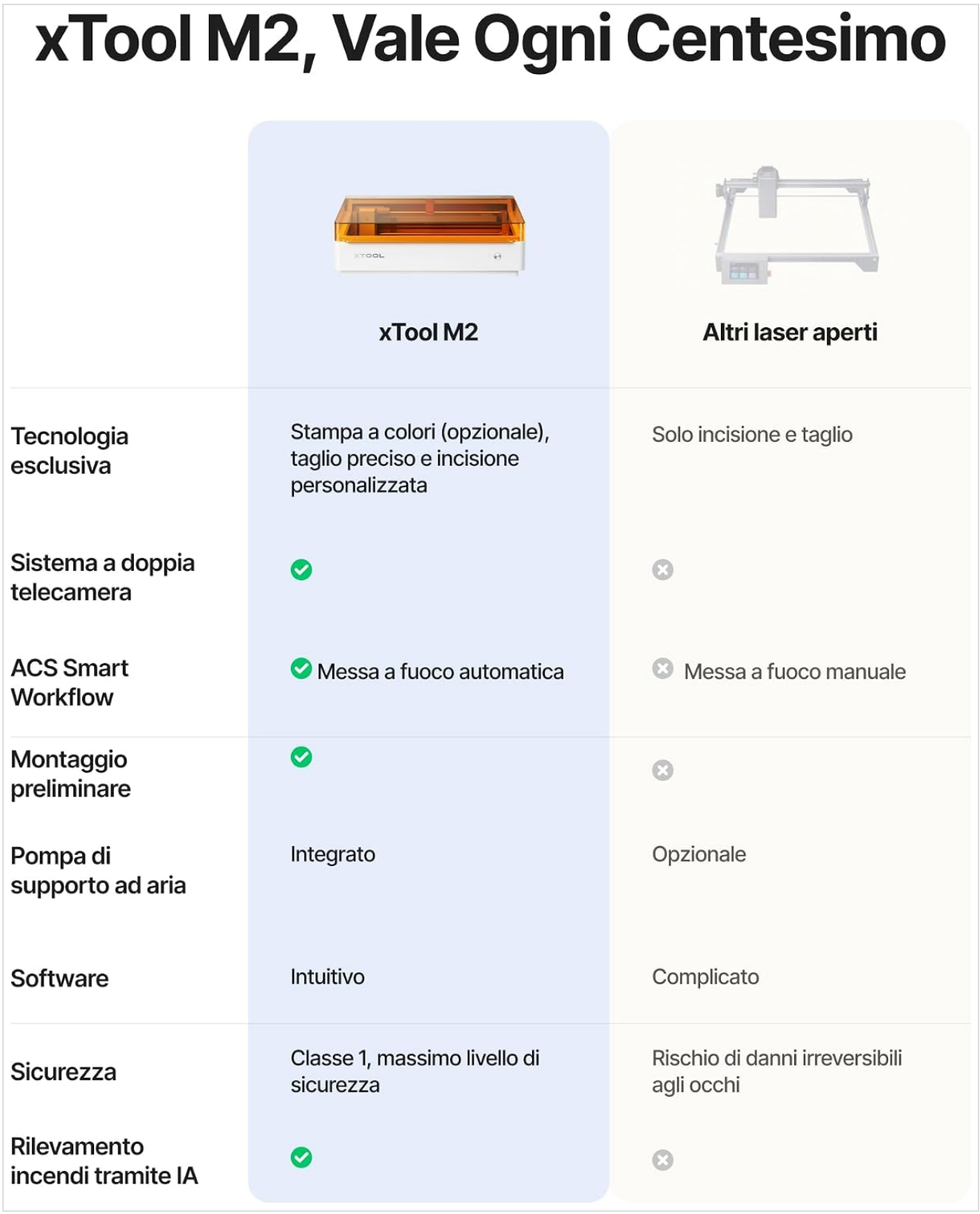


Image 7.2: Feature comparison highlighting the advantages of the xTool M2.

8. Warranty and Support

8.1 Product Warranty

The xTool M2 comes with a 2-year product support warranty. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, inquiries, or support, xTool offers multiple channels:

- **Email Support:** Contact via email for detailed inquiries.
- **Live Chat:** Available on the official xTool website for real-time assistance.
- **Phone Support:** Direct phone line for immediate help.
- **Facebook Group:** Join the official xTool Facebook group for community support and tips.

Refer to the official xTool website for the most current contact information and support resources.

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