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MINGDA Magician Pro2

MINGDA Magician Pro2 3D Printer

USER MANUAL

Introduction

Welcome to the MINGDA Magician Pro2 3D Printer user manual. This document provides essential information for setting up, operating, maintaining, and troubleshooting your new 3D printer. The Magician Pro2 is an FDM (Fused Deposition Modeling) 3D printer designed for ease of use and reliable performance, featuring intelligent automatic leveling and a responsive main board.

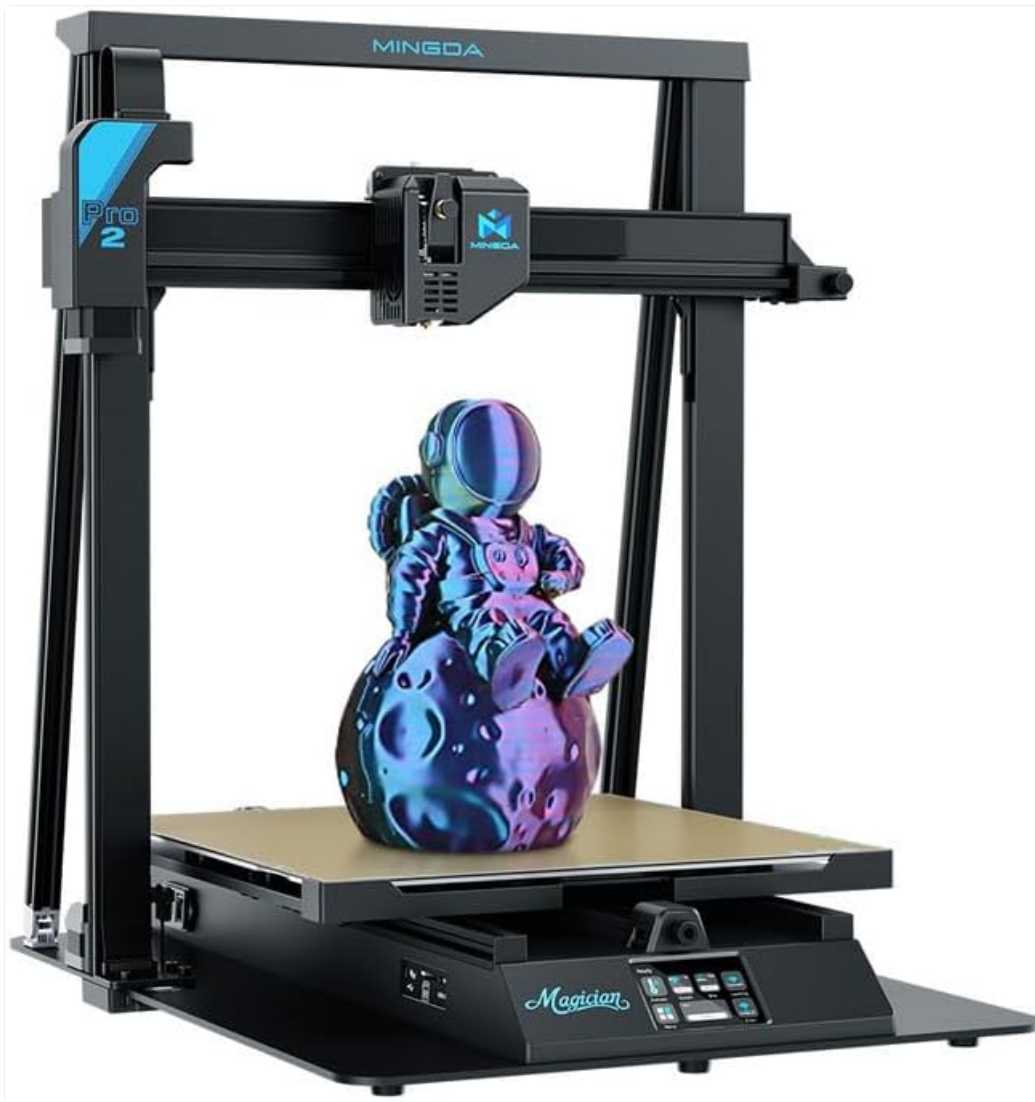


Figure 1: MINGDA Magician Pro2 3D Printer. This image shows the assembled 3D printer with a sample print of an astronaut sitting on a moon-like base. The printer features a black frame and a beige build plate.

What's in the Box

Upon unboxing your MINGDA Magician Pro2, please verify that all components listed below are present:

- User manual (this document)
- SD card
- 30g White filament (sample)
- Allen wrench set (5 pieces: 0.1 mm - 0.5 mm diameter)
- Spare Teflon tube
- Power supply cable
- 8mm/10mm Wrench
- Filament holder
- Spare nozzle
- Assorted screws: M5*25 mm (2), M4*20 mm (4), M3*8 mm (2), M4*10 mm (2)

Setup

1. Assembly

The Magician Pro2 is designed for quick and easy assembly. The main components are pre-assembled, requiring minimal

steps to get the printer ready for operation. Refer to the included quick start guide for detailed visual instructions on attaching the gantry, extruder assembly, and filament holder.

2. Power Connection

Connect the provided power supply cable to the printer's power input port, located at the rear. Ensure the power switch is in the OFF position before connecting to a power outlet. Once connected, switch the printer ON.

3. Intelligent Automatic Leveling

The Magician Pro2 features an intelligent automatic leveling system. Upon initial power-on or when prompted, the printer will automatically perform a bed leveling sequence. This system uses a highly sensitive sensor to ensure optimal bed adhesion for the first layer. Follow the on-screen prompts on the printer's display for this process. Manual adjustments are generally not required.

Operating Instructions

1. Loading Filament

1. Place the filament spool onto the filament holder.
2. Feed the filament into the extruder's input hole.
3. On the printer's display, navigate to the "Load Filament" option. The extruder will heat up and automatically pull the filament through until it extrudes from the nozzle.
4. Once filament extrudes smoothly, the loading process is complete.

2. Starting a Print

1. Insert the SD card containing your prepared G-code file into the printer's SD card slot.
2. On the printer's display, navigate to "Print" or "SD Card" and select your desired G-code file.
3. Confirm your selection to begin the printing process. The printer will preheat the nozzle and print bed before starting.

3. Monitoring and Pausing Prints

During printing, the display will show progress, temperature, and other relevant information. You can pause or stop a print using the controls on the display if necessary.

4. Changing Filament During a Print

To change filament mid-print, pause the print, then select the "Unload Filament" option. Once the old filament is removed, load the new filament as described in step 1, and then resume the print.

Maintenance

1. Cleaning the PEI Plate

After each print, allow the PEI plate to cool down. Gently remove the printed object. For best adhesion, clean the PEI plate regularly with isopropyl alcohol (IPA) and a clean cloth to remove any residue or oils.

2. Nozzle Maintenance

Periodically inspect the nozzle for clogs or wear. If a clog occurs, use the provided needle or a cold pull method to clear it. Replace the nozzle if it shows signs of significant wear or damage to maintain print quality.

3. General Cleaning

Keep the printer free of dust and filament debris. Use a soft brush or compressed air to clean the gantry, lead screws, and other moving parts. Ensure the cable management remains neat, as the Magician Pro2 features a sleek design with minimal exposed cables.

4. Upgrades

The Magician Pro2's self-developed main board has a modular design, allowing for future upgrades. The printer also supports upgrades to an all-metal hot end, providing more flexibility for various filament types. Consult the MINGDA official website for information on available upgrades and installation guides.

Troubleshooting

Problem	Possible Cause	Solution
Filament not extruding	Clogged nozzle, tangled filament, incorrect temperature.	Clear nozzle with needle, untangle filament, verify print temperature settings.
Poor first layer adhesion	Dirty print bed, incorrect bed temperature, leveling issue.	Clean PEI plate with IPA, check bed temperature, re-run auto-leveling.
Print quality issues (layer shifts, stringing)	Loose belts, incorrect retraction settings, wet filament.	Check belt tension, adjust retraction settings in slicer, dry filament.
Printer not powering on	Power cable disconnected, faulty power supply, tripped circuit.	Ensure power cable is securely connected, check power outlet, contact support if issue persists.

Specifications

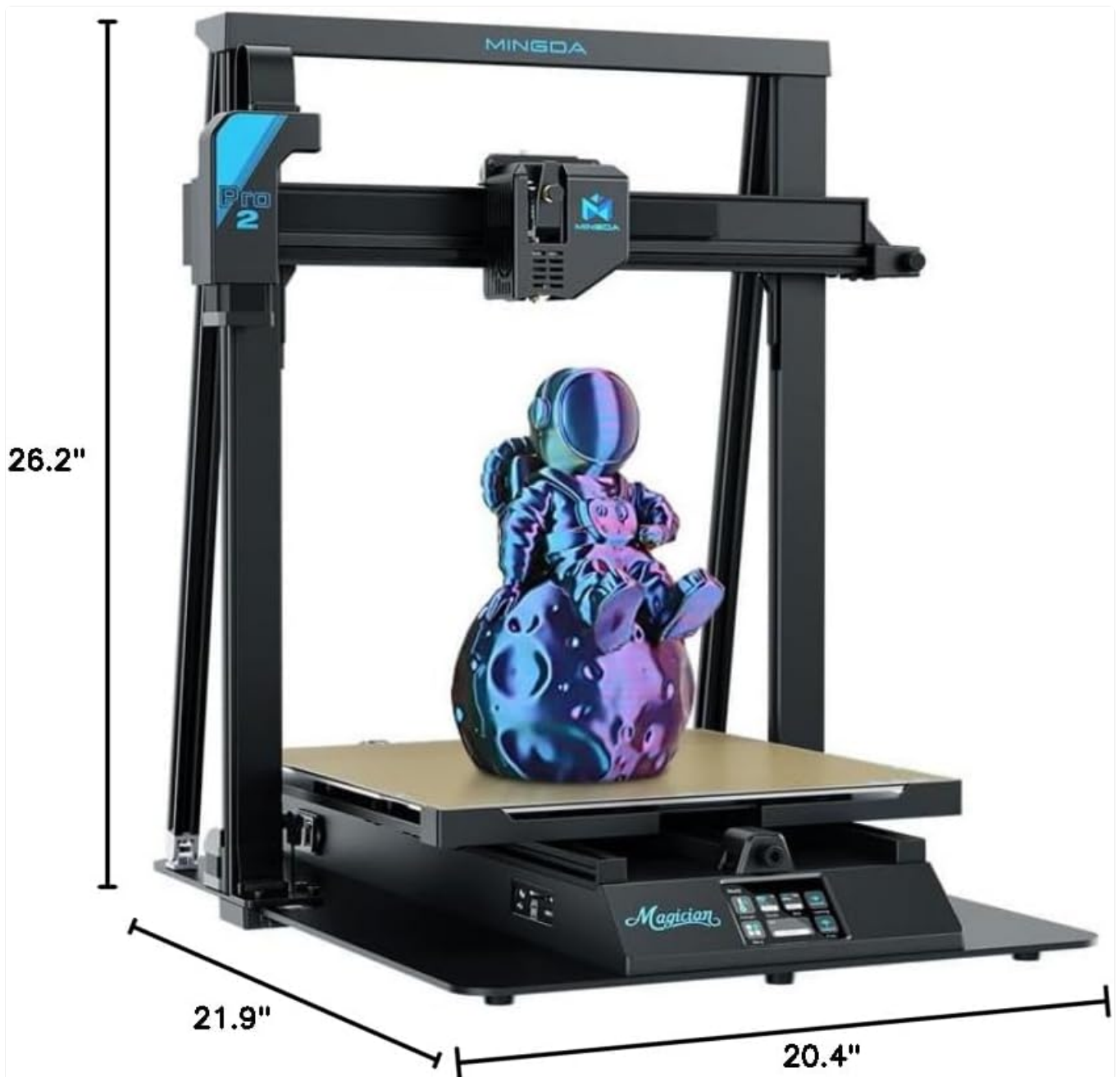


Figure 2: MINGDA Magician Pro2 3D Printer Dimensions. This image illustrates the physical dimensions of the printer, showing a depth of 21.9 inches, a width of 20.4 inches, and a height of 26.2 inches.

Product Dimensions: 21.9"D x 20.4"W x 26.2"H (55.6 x 51.8 x 66.5 cm)

Item Weight: 27.5 pounds (12.5 Kilograms)

Brand: MINGDA

Model: Magician Pro2

Material: Plastic & Metal

Color: Black Pro

Manufacturer: MINGDA




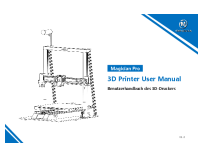

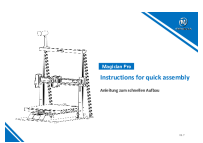
On-mode power consumption: 360 watts

Warranty and Support

For detailed warranty information, please refer to the warranty card included with your purchase or visit the official MINGDA website. If you encounter any issues or require technical assistance, please contact MINGDA customer support

through their official channels. Ensure you have your product model number (Magician Pro2) and purchase details ready when contacting support.

Related Documents - Magician Pro2

	<p>MINGDA Magician Max 3D Printer User Manual</p> <p>User manual for the MINGDA Magician Max 3D printer, covering assembly, leveling, printing, and software installation.</p>
	<p>Mingda Magician X2 3D Printer User Manual</p> <p>Comprehensive user manual for the Mingda Magician X2 3D printer, covering setup, operation, maintenance, troubleshooting, and advanced printing techniques.</p>
	<p>MINGDA Magician X 3D Printer User Manual</p> <p>Comprehensive user manual for the MINGDA Magician X 3D Printer, covering assembly, setup, leveling, preheating, filament insertion, printing, software installation (Cura), and slicing. Includes detailed steps and support information.</p>
	<p>MINGDA Magician Pro 3D Printer User Manual - Assembly, Setup, and Operation Guide</p> <p>Comprehensive user manual for the MINGDA Magician Pro 3D printer. Learn how to assemble, level, preheat, insert filament, print, adjust settings, and install slicing software like Cura.</p>
	<p>MINGDA Magician Max 3D Printer Quick Assembly Instructions</p> <p>Comprehensive quick assembly guide for the MINGDA Magician Max 3D printer, covering unboxing, assembly steps, auto-leveling, filament insertion, printing, and software setup with Cura.</p>
	<p>Mingda Magician Pro 3D Printer Quick Assembly Guide</p> <p>A comprehensive guide for the quick assembly of the Mingda Magician Pro 3D printer, covering accessories, assembly steps, auto-leveling, preheating, filament insertion, printing, Z-offset adjustment, and software instructions.</p>