

Anet ET5 Pro

Anet ET5 Pro 3D Printer User Manual

Model: ET5 Pro

1. INTRODUCTION

This manual provides detailed instructions for the assembly, operation, and maintenance of your Anet ET5 Pro 3D Printer. Please read this manual thoroughly before operating the device to ensure proper function and safety. The Anet ET5 Pro features a large print volume of 300x300x400mm, an ultra-silent motherboard, and a UL certified MeanWell power supply, designed for reliable and efficient 3D printing.

2. KEY FEATURES

The Anet ET5 Pro is equipped with several features designed to enhance your 3D printing experience:

- **Large Print Volume:** Offers a generous build area of 300x300x400mm for larger models.
- **Ultra-Silent Motherboard:** Features TMC2208 stepper drivers for quiet operation.
- **MeanWell Power Supply:** Integrated 350W UL certified power supply for stable and safe power delivery.
- **Quick Assembly:** Designed for straightforward and fast setup.
- **Auto-Leveling:** Simplifies bed leveling for consistent first layers.
- **Resume Printing:** Recovers print jobs after power outages or filament run-out.
- **Filament Detection:** Alerts the user when filament is low or runs out.
- **3.5-inch Smart Touchscreen:** Provides a clear and user-friendly interface for control.
- **Dual Z-axis:** Enhances stability and precision during printing.



Image 2.1: Overview of Anet ET5 Pro key features including ultra-silent operation, Meanwell power supply, large build area, auto-leveling, resume printing, quick assembly, filament detection, filament control, touchscreen, and dual Z-axis.



Image 2.2: The Anet ET5 Pro features an ultra-silent design, equipped with TMC2208 stepper drivers, allowing for quiet operation even at night.

Meanwell Power Supply

The power supply is concealed
in the machine, it's more convenient



350W Meanwell Power

Image 2.3: The Anet ET5 Pro integrates a 350W Meanwell power supply, concealed within the machine for convenience and safety.

3.5Inch Smart Touchscreen

Clear UI with friendly interface



Image 2.4: The 3.5-inch smart touchscreen on the Anet ET5 Pro offers a clear user interface for easy operation and settings adjustment.



Image 2.5: The resume printing feature allows the Anet ET5 Pro to recover from power loss or filament run-out, ensuring print completion.

3. SETUP AND ASSEMBLY

The Anet ET5 Pro is designed for quick and easy assembly. Follow these general 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 Assembly:** Place the operation platform (base) on a stable surface.
3. **Frame Installation:** Attach the metal frame to the operation platform using the provided screws. Ensure it is securely fastened.
4. **Extruder and Hotend Assembly:** Mount the extruder and hotend assembly onto the gantry system of the metal frame. Connect all necessary cables.
5. **Filament Holder:** Install the filament holder.
6. **Cable Connections:** Connect all motor, endstop, and heater cables according to the diagrams in the separate assembly guide (if provided).
7. **Power Connection:** Connect the power cable to the printer and then to a grounded power outlet.

Note: Refer to the dedicated assembly guide included with your printer for detailed, step-by-step visual instructions.



Image 3.1: The Anet ET5 Pro is designed for quick assembly, involving the extruder, metal frame, and operation platform.

4. OPERATING INSTRUCTIONS

4.1 Initial Power On and Bed Leveling

1. Power on the printer using the switch located on the side or back.
2. On the touchscreen, navigate to the "Prepare" or "Leveling" menu.
3. Select "Auto-Leveling" to initiate the automatic bed leveling process. The printer will probe multiple points on the print bed to create a mesh for compensation.
4. If manual adjustment is required, follow the on-screen prompts or refer to the detailed leveling guide.

4.2 Loading Filament

1. Place the filament spool onto the filament holder.
2. Preheat the nozzle to the appropriate temperature for your filament type (e.g., 200°C for PLA).
3. Cut the end of the filament at a 45-degree angle to ensure a smooth entry.
4. Gently feed the filament into the extruder's input hole until it is gripped by the extruder gears.
5. On the touchscreen, select "Load Filament" or manually push the filament until it extrudes from the nozzle.

4.3 Starting a Print

1. Prepare your 3D model using a slicing software (e.g., Cura, Simplify3D) and save it as a .gcode file to an SD card.
2. Insert the SD card into the printer's SD card slot.
3. On the touchscreen, navigate to the "Print" menu.
4. Select your desired .gcode file from the list.
5. Confirm the print. The printer will preheat the bed and nozzle, then begin printing.

4.4 Online and Offline Printing

The Anet ET5 Pro supports both online and offline printing methods:

- **Offline Printing:** Printing directly from an SD card is the most common and reliable method, as it does not rely

on a continuous computer connection.

- **Online Printing:** The printer can be connected to a computer via USB. Printing can be initiated and monitored through slicing software or dedicated control software. Ensure a stable connection to prevent print failures.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Anet ET5 Pro 3D Printer.

- **Clean the Print Bed:** After each print, clean the print bed with isopropyl alcohol to remove any residue and ensure good adhesion for future prints.
- **Nozzle Cleaning:** Periodically clean the nozzle to prevent clogs. Use a fine needle or a brass brush when the nozzle is heated.
- **Lubricate Moving Parts:** Apply a small amount of lithium grease or similar lubricant to the Z-axis lead screws and smooth rods every few months.
- **Check Belts:** Ensure the X and Y axis belts are properly tensioned. They should be taut but not overly tight.
- **Inspect Cables:** Regularly check all cables for wear or damage.
- **Firmware Updates:** Check the official Anet website for any available firmware updates that may improve performance or add features.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your 3D printer.

6.1 Print Adhesion Issues

- **Problem:** First layer not sticking to the print bed.
- **Solution:**
 - Ensure the print bed is clean and free of grease.
 - Re-level the print bed, ensuring the nozzle is at the correct distance from the bed (paper test).
 - Increase print bed temperature slightly.
 - Apply an adhesive (e.g., glue stick, hairspray) to the print surface.

6.2 Filament Not Extruding

- **Problem:** No filament comes out of the nozzle.
- **Solution:**
 - Check if the nozzle is clogged. Perform a cold pull or use a cleaning needle.
 - Verify that the extruder gear is gripping and feeding the filament.
 - Ensure the hotend temperature is set correctly for the filament type.
 - Check for kinks or tangles in the filament spool.

6.3 Layer Shifting

- **Problem:** Layers of the print are misaligned.
- **Solution:**
 - Check the tension of the X and Y axis belts. They should be snug.
 - Ensure the print speed is not too high.
 - Verify that the printer is on a stable surface and not subject to vibrations.

- Check for any obstructions in the path of the print head.

7. SPECIFICATIONS

Feature	Specification
Brand	Anet
Model Number	ET5 Pro
Print Volume	300 x 300 x 400 mm
Product Dimensions (Printer)	21.26 x 20.47 x 25.2 inches (54 x 52 x 64 cm)
Material	Aluminum
Compatible Devices	Personal Computer
Operating System	Linux (compatible)
Power Supply	MeanWell 350W (UL Certified)
Motherboard	Ultra-silent (TMC2208 stepper drivers)
Display	3.5-inch Smart Touchscreen
Connectivity	SD Card, USB



8. WARRANTY AND SUPPORT

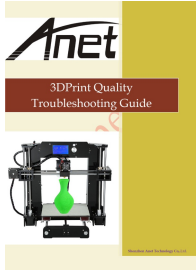



For warranty information and technical support, please refer to the documentation included with your product or visit the official Anet website. It is recommended to register your product upon purchase to facilitate any future support requests.

When contacting support, please have your model number (ET5 Pro) and purchase details readily available.

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Related Documents - ET5 Pro

	Anet ET5 X 3D Printer Setup Manual This manual provides setup instructions and specifications for the Anet ET5 X 3D Printer. It covers important safety precautions, assembly guidance, and technical details for optimal use.
	Anet ET5 X 3D Printer User Manual Comprehensive user manual for the Anet ET5 X 3D Printer, detailing setup, leveling procedures, filament management, printing operations, and essential safety notices for optimal performance.

	<p>Anet 3D Printer Quality Troubleshooting Guide</p> <p>A comprehensive guide from Anet Technology to help users identify and resolve common 3D printing quality issues, covering topics from extrusion problems to layer adhesion and print defects.</p>
	<p>Anet 3D Printing Troubleshooting Guide</p> <p>A comprehensive troubleshooting guide for Anet 3D printers, covering common issues like filament not extruding, print adhesion problems, layer inconsistencies, and more. Learn how to resolve printing defects for better quality.</p>
	<p>Anet ET4 Pro 3D Printer User Guide: Assembly and Operation</p> <p>Comprehensive user guide for the Anet ET4 Pro 3D Printer, covering safety precautions, assembly instructions, filament recommendations, and operational notices. Learn how to set up and use your 3D printer effectively.</p>
	<p>Anet ET4 3D Printer Setup Manual</p> <p>A comprehensive setup manual for the Anet ET4 3D Printer, covering assembly instructions, safety precautions, and technical specifications.</p>