

Flashforge Adventurer 5M Pro

Flashforge Adventurer 5M Pro 3D Printer User Manual

Your comprehensive guide to setting up, operating, and maintaining your Adventurer 5M Pro 3D Printer.

1. INTRODUCTION

The Flashforge Adventurer 5M Pro is an advanced 3D printer designed for efficiency and high-quality output. Featuring a Core XY structure, automatic leveling, and a dual air filtration system, it offers a streamlined printing experience for various applications. This manual provides essential information to help you get started and maximize the potential of your printer.



Figure 1: The Flashforge Adventurer 5M Pro 3D Printer.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the printer to prevent injury or damage to the device.

- **Hot Surfaces:** The print nozzle and build plate reach high temperatures during operation. Avoid touching these components directly to prevent burns. Allow the printer to cool down before performing maintenance.
- **Moving Parts:** Keep hands, hair, and loose clothing clear of moving parts during operation to prevent entanglement or injury.
- **Ventilation:** Operate the printer in a well-ventilated area. While the Adventurer 5M Pro features a dual filtration system, some materials may still produce fumes.

- **Power Supply:** Use only the provided power cable and ensure the printer is connected to a grounded outlet. Disconnect power before performing any maintenance or when the printer is not in use.
- **Children and Pets:** Keep children and pets away from the printer during operation.

3. WHAT'S IN THE BOX

Upon unboxing your Flashforge Adventurer 5M Pro, verify that all components are present:

- Adventurer 5M Pro 3D Printer (installed with 0.4mm nozzle)
- 0.6mm High-Strength Nozzle (1 pc)
- 250g Burnt Titanium PLA Filament
- Spool Holder (with 2 screws)
- Tool Kits
- Power Cable
- USB Drive
- Quick Start Guide
- Glue
- Grease
- Unclogging Pin Tool
- Screwdriver
- Allen Wrench
- Diagonal Pliers

Adventurer 5M	VS	Adventurer 5M Pro
Open	Shell	Enclosed
PLA/TPU/PETG/PLA-CF/PETG-CF	Filament Type	PLA/PETG/TPU/ABS/ASA/PLA-CF/PETG-CF
✓	Core XY Structure	✓
✓	One-click auto leveling	✓
✓	600mm/s Max.Speed	✓
✓	Double-sided Flexible PEI Steel Plate	✓
✓	Max 280C Direct Extruder	✓
×	Silent Printing	✓
×	Air Filtration	✓
×	Camera Monitoring	✓
×	Automatic Shutdown	✓

Figure 2: Included accessories and tools.

4. SETUP

4.1 Initial Placement and Power Connection

Place the printer on a stable, level surface in a well-ventilated area. Connect the power cable to the printer and a grounded electrical outlet.

4.2 Automatic Leveling

The Adventurer 5M Pro features one-click automatic leveling for precise first layers. Follow the on-screen prompts on the printer's touchscreen to initiate the leveling process. This eliminates manual adjustments, ensuring optimal bed adhesion.



Quiet Mode < 50dB

Low printing noise, you will never be affected work or rest during printing.

Figure 3: Automatic leveling and various build plate options.

4.3 Nozzle Installation and Removal

The printer comes with a 0.4mm nozzle installed and a 0.6mm high-strength nozzle included. Optional 0.25mm and 0.8mm nozzles are available. Nozzles can be quickly detached and replaced in approximately 3 seconds by pressing a release button.

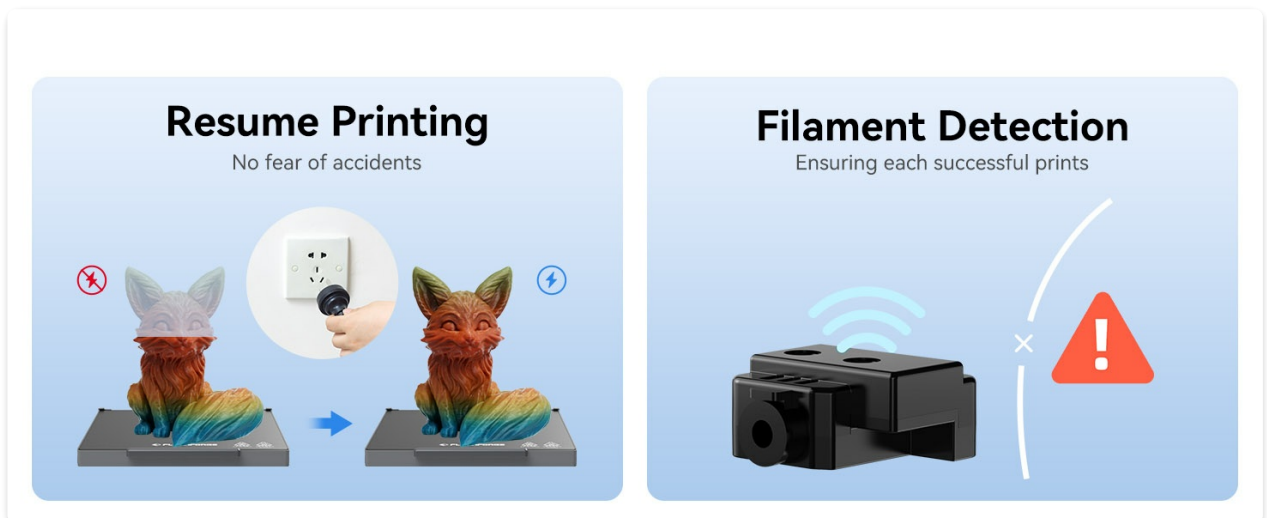


Figure 4: Quick detach nozzle system.

4.4 Filament Loading

Load the filament onto the spool holder at the rear of the printer. Guide the filament into the extruder according to the instructions on the touchscreen. The direct drive extruder supports various materials.


4.5 Software Installation

Install the FlashPrint slicing software on your computer. The printer is also compatible with Prusa Slicer, Cura, and Orca Slicer. Refer to the Quick Start Guide for detailed software setup instructions.

5. OPERATING INSTRUCTIONS

5.1 Starting a Print

Prepare your 3D model using your preferred slicing software. Transfer the G-code file to the printer via USB drive, Wi-Fi, Ethernet, or cloud connection. Select the file on the printer's 4.3-inch touchscreen and initiate the print.



Extruder Quantity	1	Build Volume	220x220x220mm
Camera	1	Layer Thickness	0.1-0.4mm
Nozzle Diameter	0.4 mm (default) 0.6mm / 0.8mm / 0.25mm (optional)	Printing Precision	±0.1mm
Extruder Temperature	Max 280°C	Power Supply AC	100~240V., 50/60Hz, 350W
Max Platform Temp	110°C	Device Size	380×400×453mm
Working Temperature	15-30°C	Input	3MF / STL / OBJ / FPP / BMP / PNG / JPG / JPEG
Max Travel Speed	600mm/s	Output	GX / G
Max Acceleration	20000mm/s²	Net Weight	14.6kg
Filament Type	PLA / PETG / ABS / ASA / TPU / PLA-CF / PETG-CF	Operating System	Win7/8/10/11; Linux/Mac OS


Figure 5: Ready to print in minutes.

5.2 Print Monitoring and Control

The Adventurer 5M Pro supports remote monitoring via its built-in camera and the 'FLASH MAKER' mobile app. You can monitor prints in real-time, adjust parameters, and receive alerts.

**Adventurer 5M**



**Adventurer 5M Pro**

Open	Shell	Enclosed
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✓	Core XY Structure	✓
✓	One-click auto leveling	✓
✓	600mm/s Max.Speed	✓
✓	Double-sided Flexible PEI Steel Plate	✓
✓	Max 280C Direct Extruder	✓
×	Silent Printing	✓
×	Air Filtration	✓
×	Camera Monitoring	✓
×	Automatic Shutdown	✓

Figure 6: Mobile app for remote control and monitoring.

5.3 Filament Detection and Resume Printing

The printer is equipped with a filament detection sensor that pauses printing if the filament runs out or breaks. The resume printing function allows you to continue a print after a power outage or filament change, minimizing material waste.

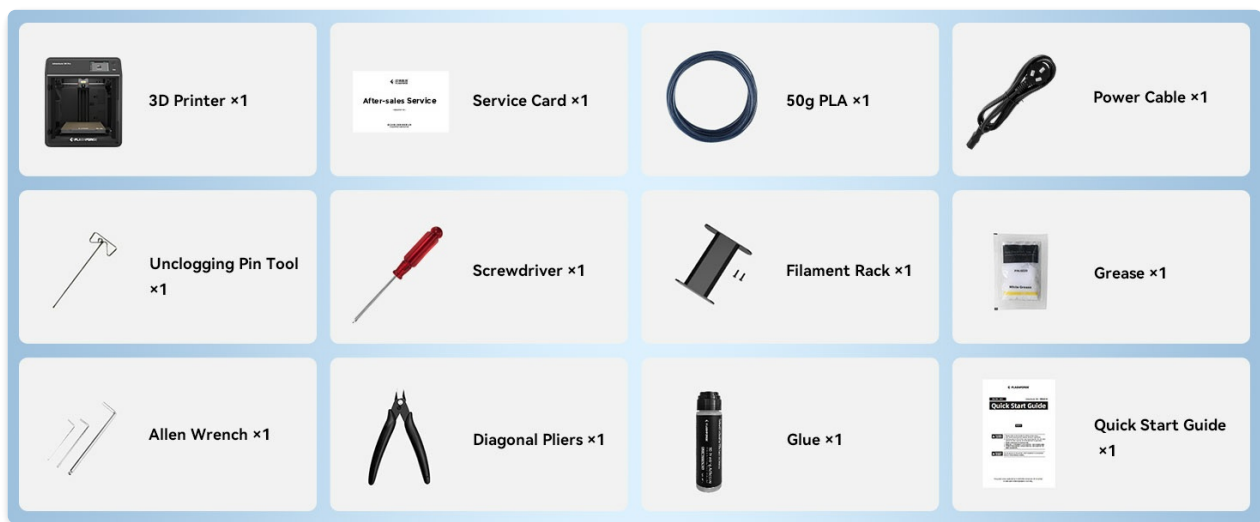


Figure 7: Resume printing and filament detection features.

5.4 Automatic Shutdown

The printer can be configured for automatic shutdown upon completion of a print, enhancing safety and energy efficiency.

5.5 Material Compatibility

The Adventurer 5M Pro supports a wide range of filaments, including PLA/PLA Pro, HS PLA, ABS/ABS Pro, PETG/PETG Pro, HS PETG, ASA/ASA-CF, TPU, PC, PLA-CF, and PETG-CF.



Figure 8: Supported filament types and example prints.

6. MAINTENANCE

6.1 Nozzle Replacement

Regularly inspect the nozzle for wear or damage. Replace the nozzle as needed using the quick detach mechanism. Refer to Section 4.3 for details.

6.2 Build Plate Care

Clean the build plate after each print to ensure optimal adhesion for subsequent prints. Use isopropyl alcohol (IPA) to remove any residue. For stubborn adhesion issues, apply a thin layer of the provided glue stick.

6.3 Air Filtration System

The printer features a dual air filtration system with HEPA and activated carbon filters for both internal and external circulation. Regularly check and replace the filters to maintain effective particle and VOC removal.

10mins

Print Right Out of Box



Easy for beginners, home use and educational applications



Figure 9: Dual air filtration system.

6.4 General Cleaning

Keep the printer clean and free of dust and debris. Use a soft, dry cloth to wipe down exterior surfaces. Avoid using abrasive cleaners or solvents.

7. TROUBLESHOOTING

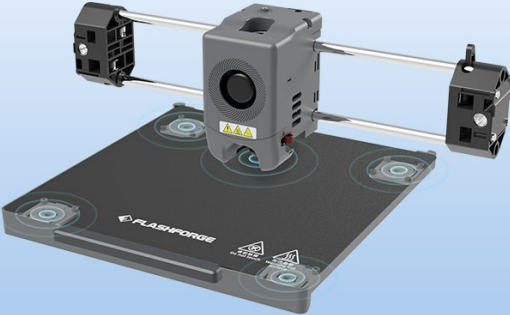
This section addresses common issues you might encounter during operation.

- **Poor First Layer Adhesion:** Ensure the build plate is clean and free of grease. Re-run the automatic leveling process. Consider using the provided glue stick for enhanced adhesion.
- **Nozzle Clogging:** If the nozzle is clogged, try using the unclogging pin tool. If the clog persists, replace the nozzle. Ensure proper filament loading and storage to prevent moisture absorption.
- **Print Quality Issues (e.g., ghosting, warping):** Verify that the printer is on a stable surface. Ensure the chamber temperature is appropriate for the filament being used. The printer features vibration compensation to minimize ghosting.
- **Filament Not Extruding:** Check if the filament is properly loaded and not tangled. Ensure the nozzle is not clogged and has reached the correct temperature.
- **Printer Not Connecting:** Verify Wi-Fi or Ethernet connections. Restart the printer and your network router if necessary.


8. SPECIFICATIONS

Multi-Plate Options

Auto Leveling with One Click




Big farewell to the frustrating leveling test with paper




PEI Powder Coated

Imparts a unique finish to the bottom of your models.



Smooth PC Plate

Suitable for advanced printing with materials like ABS, PC, and ASA.



Smooth PEI

For PLA, PETG, and TPU, without the need for glue.


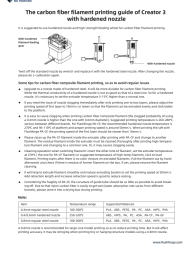




Figure 10: Flashforge Adventurer 5M Pro Technical Specifications.

Feature	Specification
Model Number	Adventurer 5M Pro
Build Volume	220 x 220 x 200 mm
Max Print Speed	300 mm/s (Recommended), 600 mm/s (Max Travel Speed)
Max Acceleration	20000 mm/s ²
Nozzle Diameter	0.4 mm (default), 0.25/0.6/0.8 mm (optional)
Max Extruder Temperature	280°C
Max Platform Temperature	110°C
Filament Compatibility	PLA/ABS/PETG/ASA/TPU/PC/PLA-CF/PETG-CF
Connectivity	Wi-Fi, USB, Ethernet, Cloud
Operating System	Win7/8/10/11, Linux, Mac OS
Net Weight	14.6 kg
Device Dimensions	38P x 40I x 45.3H cm

9. WARRANTY AND SUPPORT

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

Related Documents - Adventurer 5M Pro

	<p>Flashforge Adventurer 5M Series 3D Printers: Fast, User-Friendly, and High-Quality</p> <p>Explore the Flashforge Adventurer 5M and 5M Pro 3D printers. Discover features like one-click auto-leveling, high-speed printing up to 600mm/s, Core XY structure, quick-swap nozzles, and advanced air filtration systems for efficient and high-quality 3D printing.</p>
	<p>Carbon Fiber Filament Printing Guide for Flashforge Creator 3 with Hardened Nozzle</p> <p>A guide to printing with carbon fiber composite filaments on the Flashforge Creator 3 3D printer, focusing on the use of hardened nozzles and providing tips to avoid common printing issues.</p>
	<p>Flashforge Adventurer 5M Series: Fast, User-Friendly 3D Printers</p> <p>Explore the Flashforge Adventurer 5M Series 3D printers, featuring one-click operation, high speeds, auto-leveling, and robust designs. Ideal for beginners, families, and educational institutions.</p>
	<p>Flashforge Adventurer 5M High-Speed 3D Printer User Guide</p> <p>This user guide provides comprehensive instructions for the Flashforge Adventurer 5M high-speed FDM 3D printer, covering setup, operation, software, maintenance, and troubleshooting. Learn to maximize your printing experience with detailed guidance on its features and capabilities.</p>
	<p>FlashForge Adventurer 4 Series User Guide</p> <p>Comprehensive user guide for the FlashForge Adventurer 4 Series 3D printer. Learn about setup, operation, interface navigation, filament management, printing methods (Wi-Fi, USB, Cloud), maintenance, and troubleshooting. Includes specifications for Adventurer 4 and Adventurer 4 Lite.</p>
	<p>Flashforge Adventurer 5M Pro User Guide: Setup, Printing, and Maintenance</p> <p>Comprehensive user guide for the Flashforge Adventurer 5M Pro 3D printer, covering setup, software installation, printing methods, maintenance, and troubleshooting.</p>

