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 - › R QIDI TECHNOLOGY i Fast 3D Printer User Manual - Model IFAST2101

R QIDI TECHNOLOGY IFAST2101

R QIDI TECHNOLOGY i Fast 3D Printer User Manual

Model: IFAST2101

Introduction	Setup	Operation	Maintenance	Troubleshooting	Specifications	Warranty & Support
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1. INTRODUCTION

The R QIDI TECHNOLOGY i Fast 3D Printer is an industrial-grade FDM (Fused Deposition Modeling) 3D printer designed for fast and precise printing. It features a robust structure, dual extruders, and a large build volume, making it suitable for a wide range of applications from prototyping to manufacturing-grade parts.

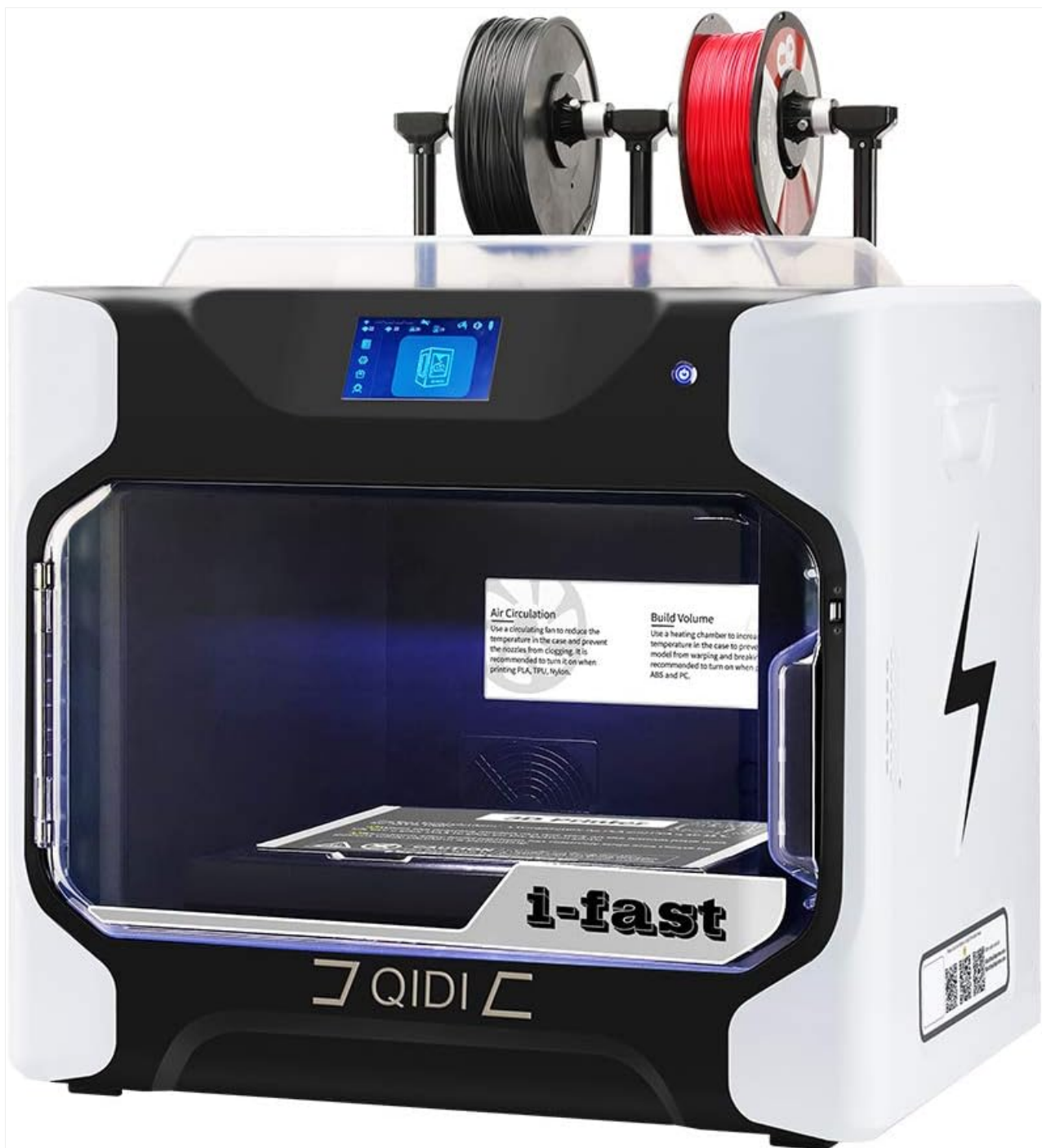


Figure 1: The R QIDI TECHNOLOGY i Fast 3D Printer.

Key Features:

- **Faster Printing:** Industrial-grade structure with a second-generation Qidi dual Z-axis system and linear guides for enhanced stability and precision. Equipped with a high-temperature extruder for faster and smoother filament extrusion, achieving print speeds of up to 100cc per hour.
- **Versatile Filament Compatibility:** Capable of printing with a wide range of FDM filaments including PLA, PLA+, ABS, PETG, and NYLON. The integrated heated chamber, which can reach 60°C, supports printing with advanced materials for robust, manufacturing-grade parts.
- **Complex Part Manufacturing:** Features an automatic dual extruder system that adjusts left and right extruders based on software settings. This enables precise manufacturing of complex structures using PVA (water-soluble) support materials.
- **All-Metal High-Temperature Extruder:** More durable than standard brass nozzles, ensuring smoother prints. The printer comes pre-installed with dual extruders and offers a large print size of 330×250×320mm.
- **User-Friendly Interface:** Equipped with a 5-inch HD capacitive touchscreen and self-developed QIDI slicing

software. The software offers a 'normal mode' for beginners with intelligent parameter settings and an 'expert mode' for experienced users to customize parameters.

Industrial Grade Structure,High Quality,High Performance and Fast Printing 3D Printer:

Super Large Print Size

Two Different Types of Dual Extruders

Easily Print Complex Parts

Dual Z-axis Structure

More Stable and Precise

Heated Chamber and Build-in Camera

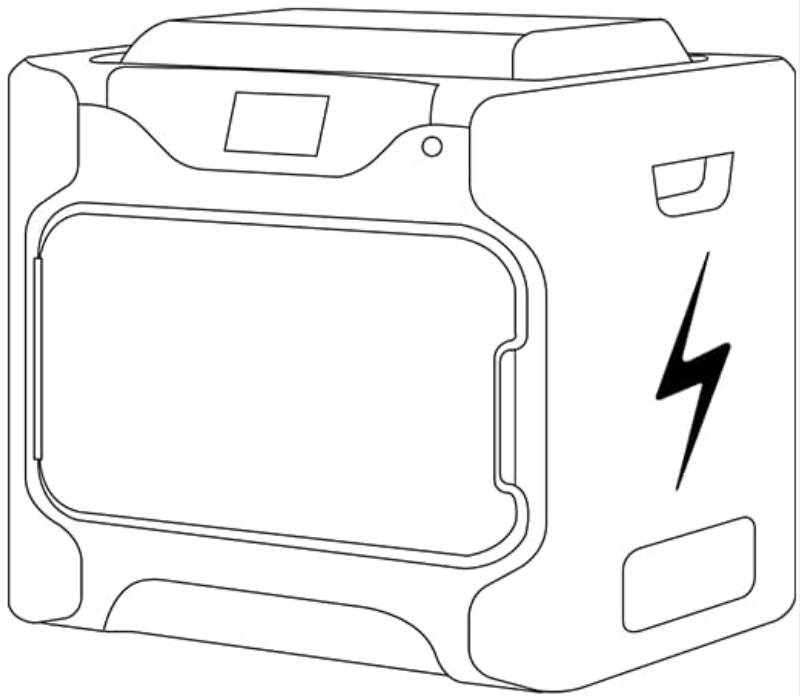


Figure 2: Overview of the i Fast 3D Printer's key features.

2. SETUP

2.1 Unpacking and Placement

Carefully remove the printer from its packaging. Ensure all protective materials are removed. Place the printer on a stable, level surface with adequate ventilation. The printer weighs approximately 93.5 pounds, so ensure the surface can support its weight.

2.2 Component Identification

Refer to the packing list to identify all included components. This typically includes the 3D printer, top cover, power cord, screwdrivers, USB flash drive, user guide, filament holder & gasket, spare part box, random color PLA filament, leveling paper, LAN cable, PC board, scraper, solid glue, and a high-temperature dual extruder.

PACKING LIST

<div>1PC</div>  <div>3D Printer</div>	<div>1PC</div>  <div>Top Cover</div>	<div>1PC</div>  <div>Power Cord</div>	<div>3PCS</div>  <div>Screw Driver</div>	<div>1PC</div>  <div>USB Flash Drive</div>
<div>1PC</div>  <div>User Guide</div>	<div>1PC</div>  <div>Filament Holder & Gasket</div>	<div>1PC</div>  <div>Spare Part Box</div>	<div>1PC</div>  <div>Random Color PLA Filament</div>	<div>1PC</div>  <div>Leveling Paper</div>
<div>1PC</div>  <div>Lan Cable</div>	<div>1PC</div>  <div>PC Board</div>	<div>1PC</div>  <div>Scraper</div>	<div>1PC</div>  <div>Solid Glue</div>	<div>1PC</div>  <div>High Temperature Dual Extruder</div>

Figure 3: Included components in the packing list.

2.3 Power Connection

Connect the power cord to the printer and a suitable power outlet. Ensure the power switch is in the OFF position before connecting.

2.4 Filament Loading

Mount the filament spool onto the filament holder. Guide the filament through the filament runout sensor and into the extruder. The printer supports various filament types, including PLA, ABS, PETG, NYLON, and PVA.

Filament Runout Sensor:

Printing will be suspended automatically when filament is broken or used up. It is more convenient and more intelligent.

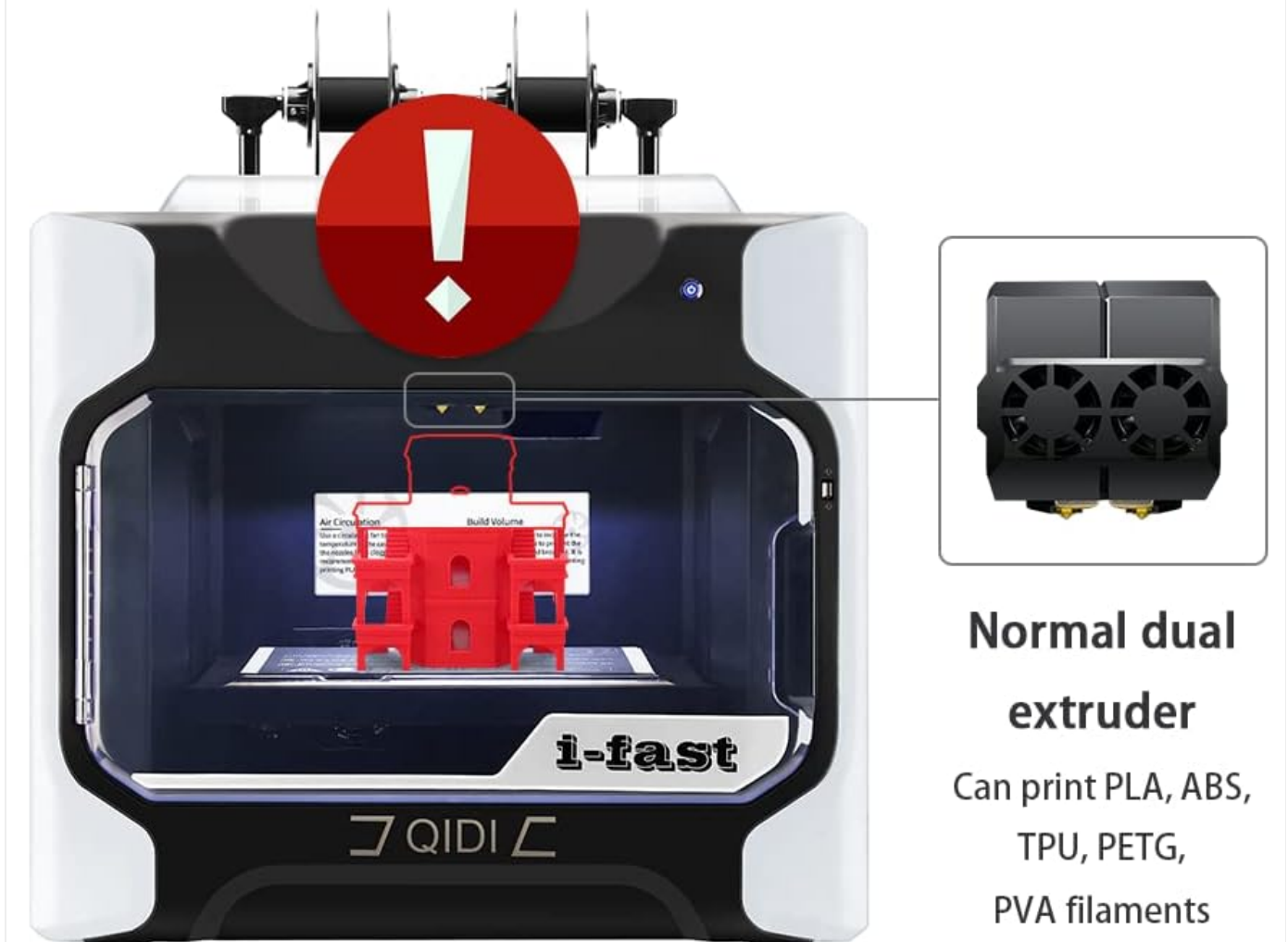


Figure 4: The filament runout sensor ensures printing is suspended automatically if filament breaks or runs out.

2.5 Build Plate Installation

Ensure the spring steel build plate is correctly seated on the print bed. This durable plate provides excellent adhesion and easy removal of printed models.

For optimal adhesion, especially with materials like ABS, it is recommended to apply a thin layer of solid glue to the build plate before printing.

3. OPERATION

3.1 Power On and Interface Navigation

Turn on the printer using the power switch. The 5-inch HD capacitive touchscreen will display the main interface. Navigate through the menus using touch gestures.

5.0 inch Touch Screen:

800*480mm 5 inch HD capacitive display. Larger interface makes it more intuitive and easy to operate.



Figure 5: The intuitive 5.0-inch touchscreen for easy operation.

The interface allows access to manual controls, preheating settings, filament management, network settings, leveling, print stop, fan control, and calibration.

3.2 QIDI Slicing Software

The printer utilizes the self-developed QIDI slicing software. This software prepares your 3D models for printing by converting them into G-code instructions.

- **Normal Mode:** Ideal for beginners, with intelligently preset parameters for common printing tasks.
- **Expert Mode:** For experienced users, offering advanced options to modify parameters and customize printing models.

After slicing your model, transfer the G-code file to the printer via USB flash drive or LAN connection.

3.3 Printing with Dual Extruders

The i Fast printer is equipped with an automatic dual extruder system. This allows for multi-material printing, such as

combining a primary material with water-soluble support (PVA) for complex geometries.

All-metal high temperature dual extruder:

More durable and prints smoother. Can print Nylon, Carbon fiber, PC, etc.



Figure 6: The all-metal high-temperature dual extruder for durable and smooth prints.

The dual extruders can print various materials including Nylon, Carbon fiber, and PC. The system automatically manages the active extruder, lifting the inactive one to prevent interference.

3.4 Heated Chamber Functionality

The printer features a heated chamber that can reach up to 60°C. This is crucial for printing with materials prone to warping, such as ABS and Nylon, ensuring better layer adhesion and overall print quality.

Heated Chamber:

Can be heated to 60° C, it can print stronger manufacturing grade parts and industrial fixtures.



Built-in Camera

You can watch your prints online

Figure 7: The heated chamber maintains optimal temperature, and the built-in camera allows remote monitoring.

3.5 Monitoring Prints

The built-in camera allows for remote monitoring of your prints. Connect the printer to your network and use the associated application to view the printing progress.

The dual Z-axis structure provides enhanced stability and precision during printing, contributing to higher quality outputs.

Dual Z-axis Structure:

Uses QIDI' s second-generation dual Z-axis structure. With all linear industrial guide rails , and the fastest printing is 100cc/h. The printing precision is more delicate and the printing is faster. The large print size: 12.99"*9.84"*12.6".

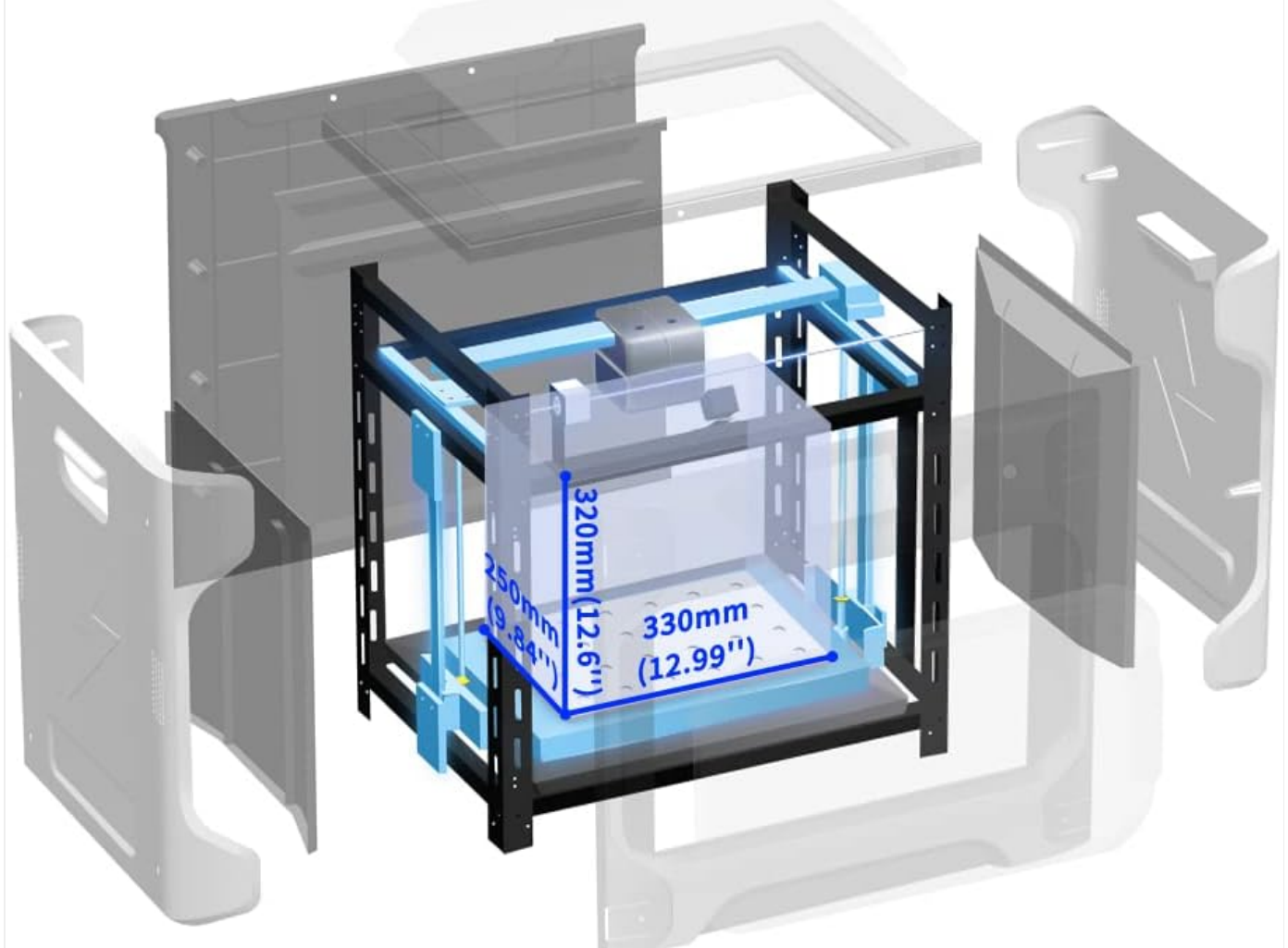


Figure 8: The dual Z-axis structure for improved stability and print accuracy.

3.6 Example Prints

The i Fast 3D Printer is capable of producing a variety of models using different materials, as shown in the example display.

Print Models Display:



Figure 9: Examples of models printed with PLA, ABS, Carbon Fiber, PETG, and Nylon.

3.7 Official Product Video

For a visual overview of the R QIDI TECHNOLOGY i Fast 3D Printer's features and operation, please watch the official product video below.

Your browser does not support the video tag.

Video 1: Official product overview of the R QIDI TECHNOLOGY i Fast 3D Printer, highlighting its key functionalities and design.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your R QIDI TECHNOLOGY i Fast 3D Printer.

- **Clean the Build Plate:** After each print, remove any residue from the build plate using the provided scraper or a soft cloth. For stubborn residue, use isopropyl alcohol.
- **Nozzle Cleaning:** Periodically clean the extruder nozzles to prevent clogs. Refer to the detailed instructions in the full user manual for specific procedures.

- **Lubricate Moving Parts:** Apply a small amount of lubricant to the linear guides and Z-axis screws as recommended in the comprehensive manual to ensure smooth movement.
- **Check Filament Path:** Ensure the filament path from the spool to the extruder is clear and free of obstructions.
- **Firmware Updates:** Regularly check for and install firmware updates from the official R QIDI TECHNOLOGY website to ensure your printer has the latest features and bug fixes.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your R QIDI TECHNOLOGY i Fast 3D Printer. For more detailed solutions, consult the full user manual.

Problem	Possible Cause	Solution
Filament not extruding	Clogged nozzle, incorrect temperature, filament runout.	Clean the nozzle, verify extruder temperature settings, check filament presence and path.
Poor first layer adhesion	Unleveled print bed, dirty build plate, incorrect bed temperature.	Level the print bed, clean the build plate, apply solid glue, adjust bed temperature.
Prints warping or lifting from bed	Insufficient bed adhesion, rapid cooling, printing with high-warp materials (e.g., ABS) without heated chamber.	Ensure heated chamber is active (for ABS/Nylon), use brim/raft, increase bed temperature, apply adhesive.
Layer shifting	Loose belts, motor issues, print head collision.	Check and tighten belts, inspect motors, ensure print path is clear.
Printer not responding to commands	Software glitch, connection issue, power problem.	Restart the printer, check USB/LAN connections, verify power supply.

6. SPECIFICATIONS

Below are the technical specifications for the R QIDI TECHNOLOGY i Fast 3D Printer.

Feature	Detail
Brand	R QIDI TECHNOLOGY
Model Number	IFAST2101
Product Dimensions	28.74 x 20.47 x 24.41 inches (73 x 52 x 62 cm)
Item Weight	93.5 pounds (42.4 kg)
Print Size (Build Volume)	330×250×320mm (12.99" x 9.84" x 12.6")
Extruder Type	Automatic Dual Extruder (All-metal high temp)
Heated Chamber	Yes, up to 60°C
Filament Compatibility	PLA, PLA+, ABS, PETG, NYLON, PVA, Carbon Fiber, PC, TPU
Slicing Software	QIDI Slicing Software (Normal & Expert modes)

Feature	Detail
User Interface	5-inch HD Capacitive Touch Screen
Connectivity	USB, LAN, Wi-Fi (with built-in camera monitoring)
Structure	Industrial-grade, Dual Z-axis, Linear Guides

7. WARRANTY AND SUPPORT

For detailed information regarding the product warranty, technical support, and service, please refer to the official documentation included with your R QIDI TECHNOLOGY i Fast 3D Printer or visit the official R QIDI TECHNOLOGY website. Contact information for customer support is typically provided in the user guide.

R QIDI TECHNOLOGY is known for its responsive customer support, offering assistance with setup, operation, and troubleshooting.

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