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› Anet ET5 DIY 3D Printer User Manual

Anet ET5

Anet ET5 DIY 3D Printer User Manual

Model: ET5

1. INTRODUCTION

The Anet ET5 is a DIY 3D printer designed for enthusiasts and professionals seeking a large build volume and advanced features. It offers a substantial print area of 300x300x400mm, automatic bed leveling, and intelligent functions like filament detection and power outage recovery, ensuring a smooth and reliable printing experience.



Figure 1.1: Anet ET5 3D Printer overview.

2. SETUP AND ASSEMBLY

The Anet ET5 is designed for quick and straightforward assembly, typically taking around 10 minutes due to its pre-assembled and modular design. Follow the included assembly guide for detailed steps.

2.1 Initial Assembly Steps

- Carefully unpack all components from the packaging.
- Attach the Z-axis uprights to the base unit using the provided screws.
- Secure the print head and other pre-assembled modules as indicated in the quick start guide.
- Connect all necessary cables, ensuring solid wire connections.
- Install the filament spool holder.

Assembled In No Time

Pre-assembly and modular design with quick assemble in 10min.

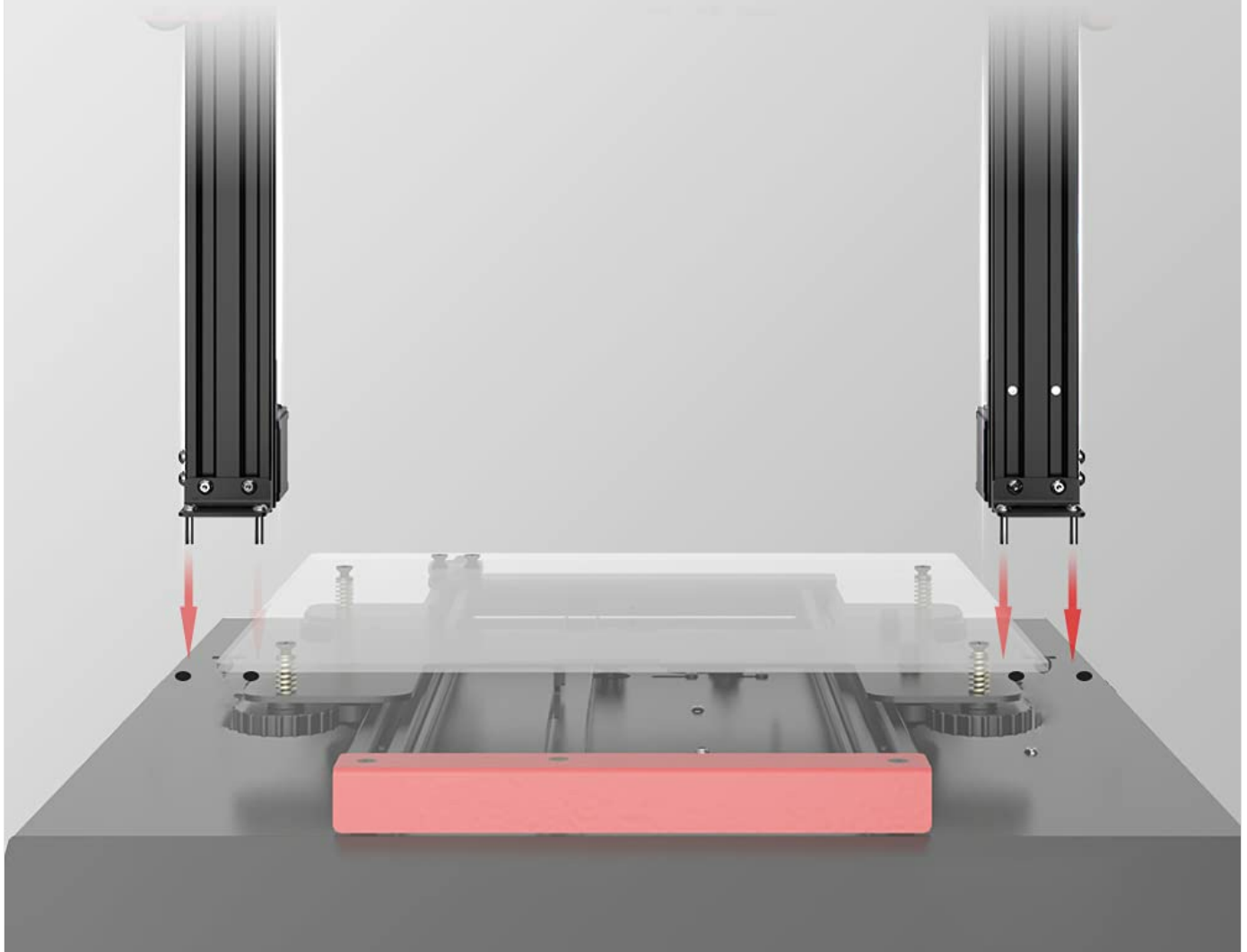


Figure 2.1: Modular design for quick assembly.

3. OPERATING INSTRUCTIONS

3.1 Automatic Bed Leveling

The Anet ET5 features a matrix automatic leveling system that measures 25 points across the print platform. This induction sensor probes the bed in a grid, applying mesh-based compensation to ensure a consistently level print surface without manual adjustments.

Matrix Automatic Levelling

Auto measures 25 points across the print platform for heat bed leveling.

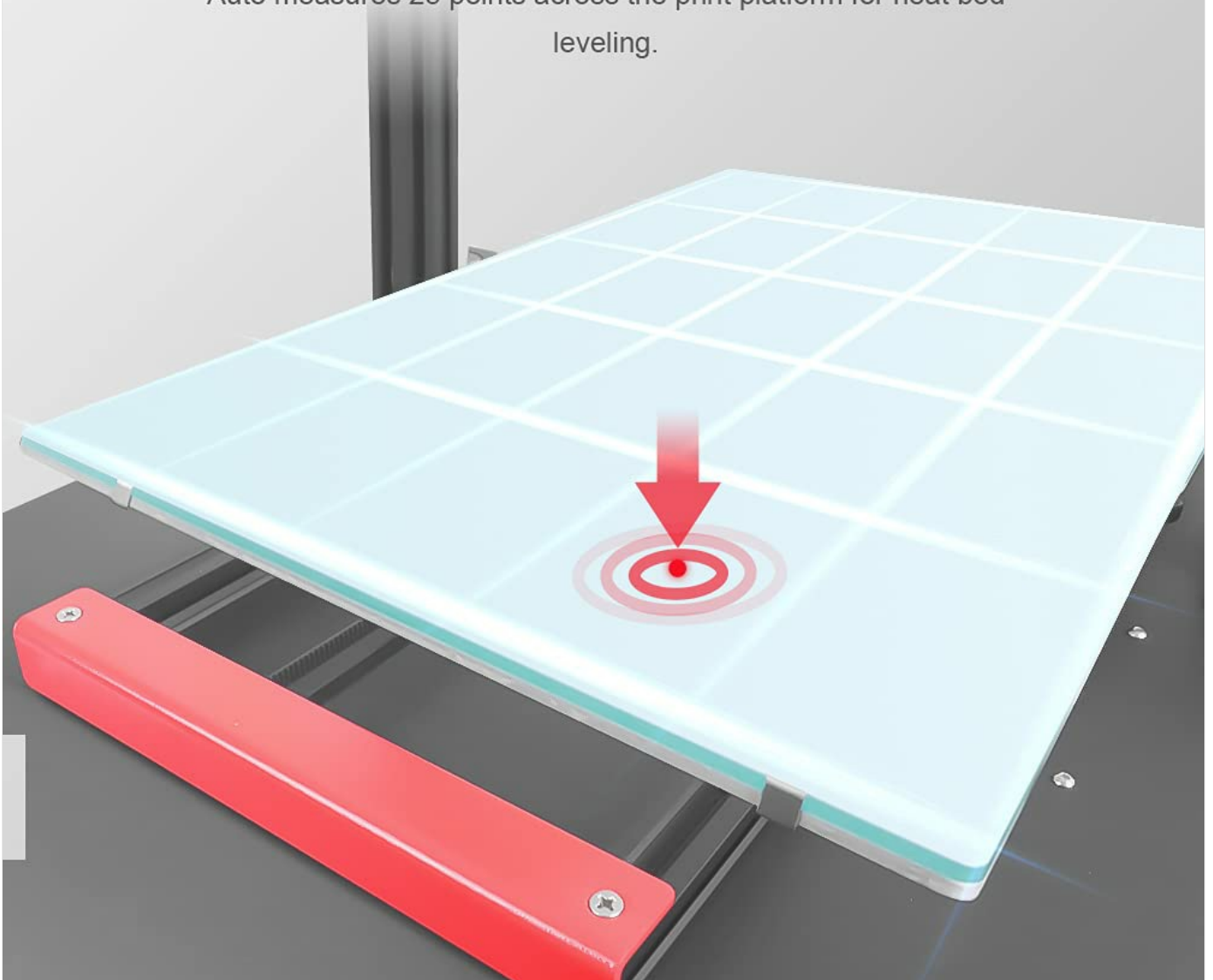


Figure 3.1: Automatic bed leveling in action.

3.2 Filament Management

The printer includes a filament sensor that detects when the filament is running low or has run out. It sends reminders to the screen, preventing "air-printing" and ensuring print integrity. Filament loading and unloading can be done automatically with a single click via the touchscreen interface.

Filament Sensor

Detect filament ends and send reminders to avoid air-printing.

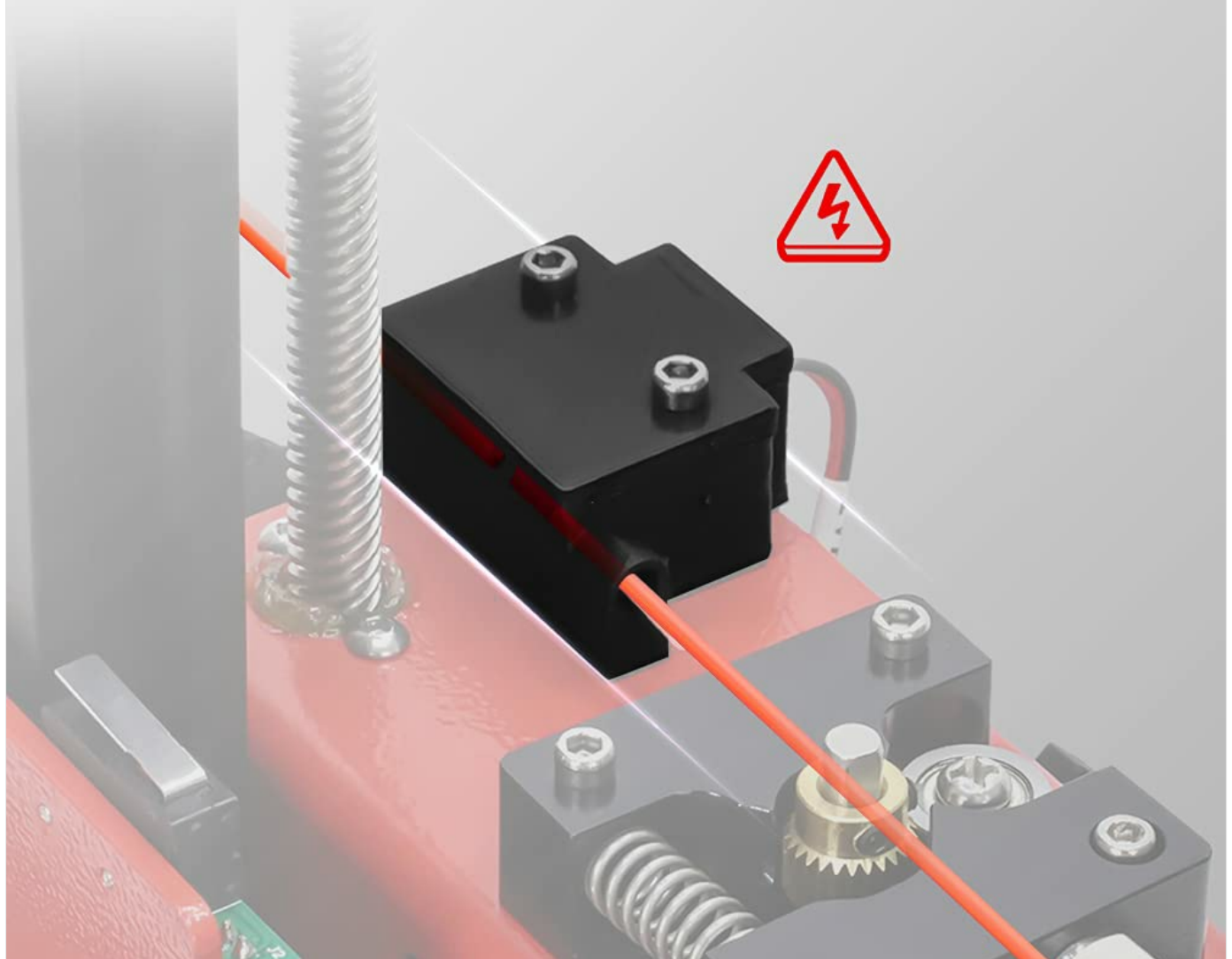


Figure 3.2: Filament sensor mechanism.

3.3 Power Outage Recovery

The Anet ET5 is equipped with a power outage recovery function. In the event of an unexpected power interruption, the printer can resume printing from the exact point it left off once power is restored, minimizing material waste and saving time.

Power Outage Recovery

Resume printing and recover from exactly where it left off. No worries about unexpected power outages.

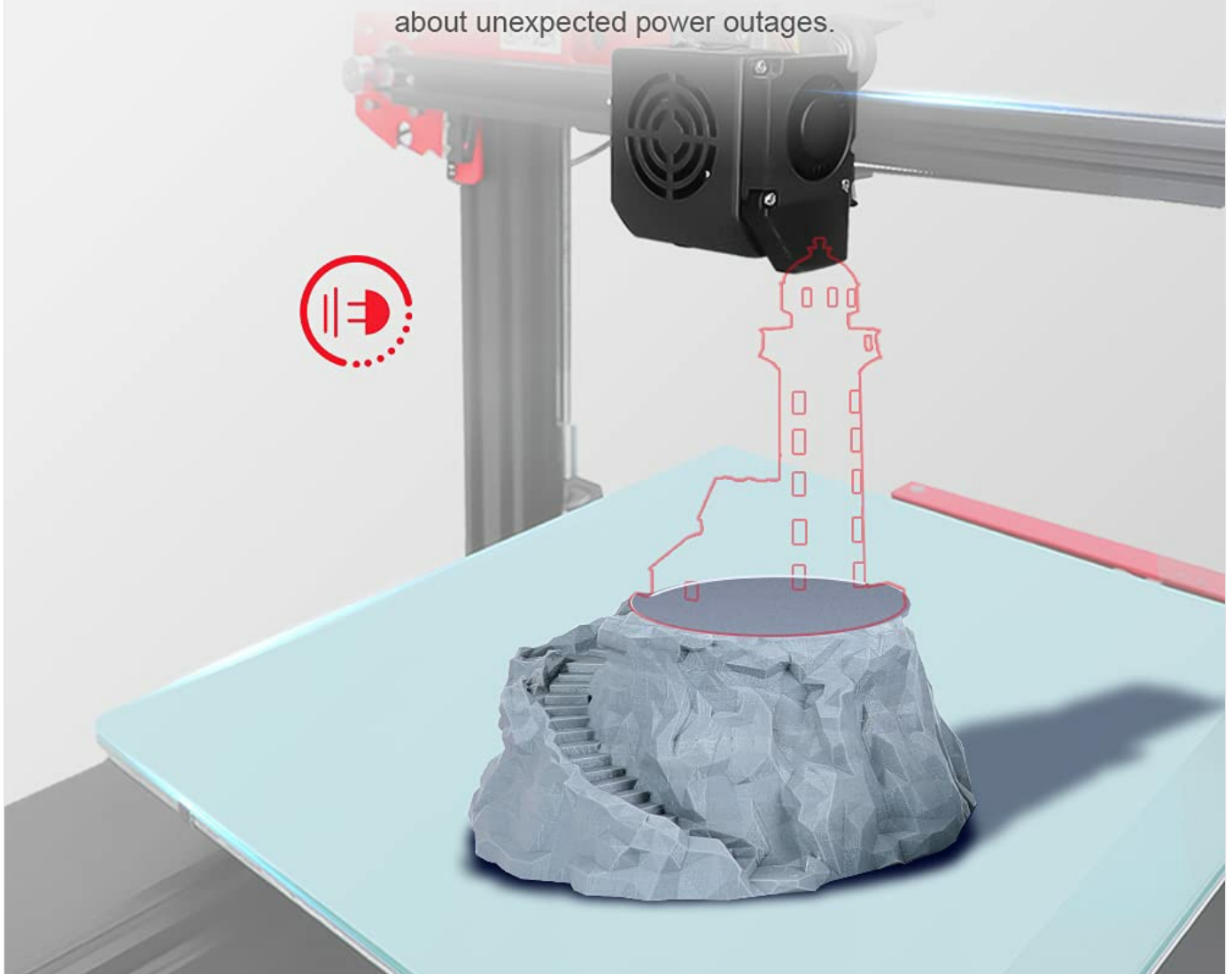


Figure 3.3: Power outage recovery feature.

3.4 Intuitive Touchscreen Interface

Control the printer effortlessly using the colorful 3.5-inch LCD touch screen. This intuitive interface allows for easy control of X/Y/Z axis movement, leveling, and printing operations.

Intuitive Touchscreen

Clear UI with user friendly interface with 4 languages available.

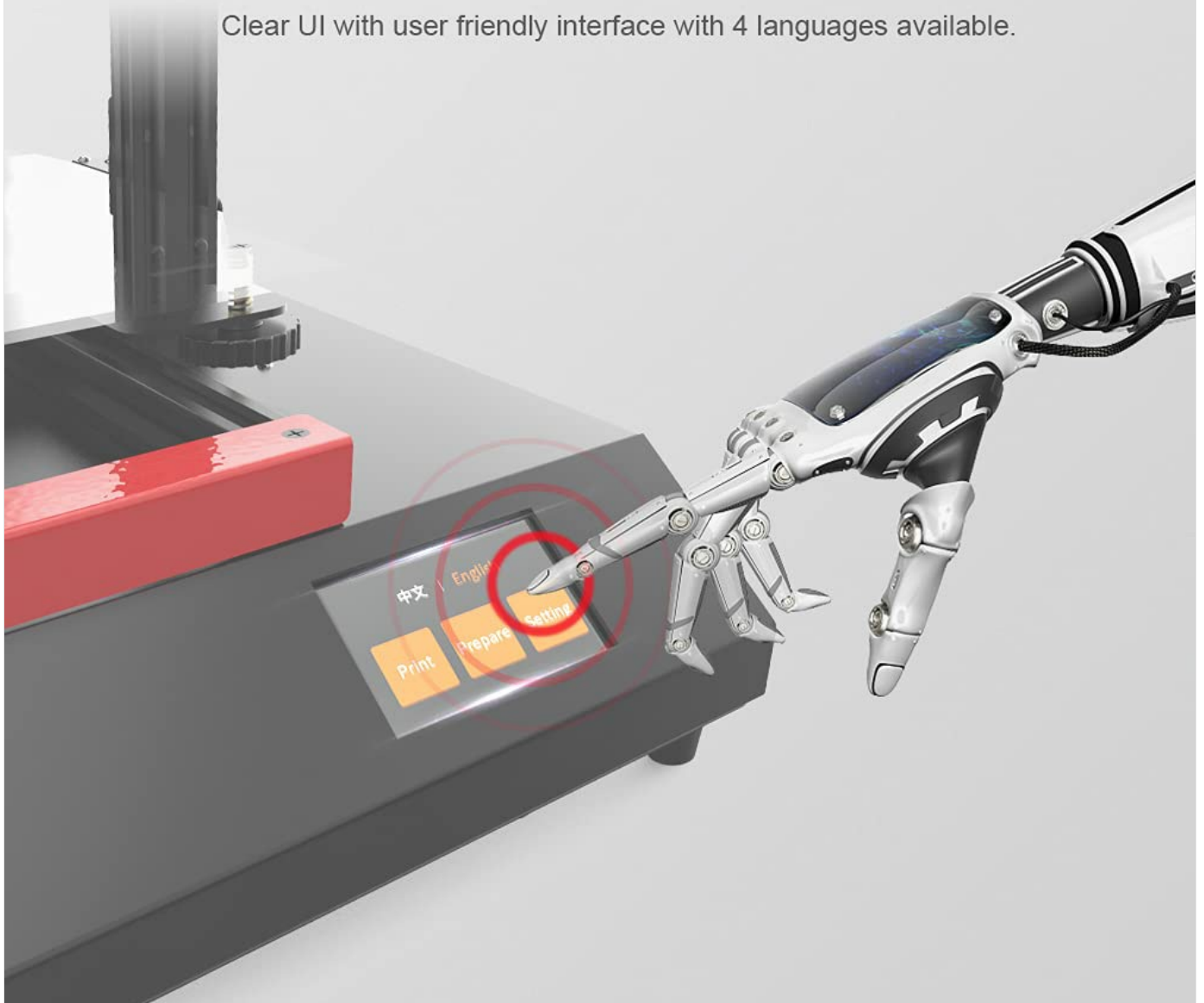


Figure 3.4: User-friendly touchscreen interface.

4. ADVANCED FEATURES

4.1 Dual Z-axis and Stable Y-axis Movement

The ET5 incorporates dual Z-axis rods and motors to ensure smooth and accurate vertical movement, enhancing print precision. Additionally, dual Y-axis guideways provide a more stable and level moving stage for the build platform, contributing to overall print quality.

Dual Z-axis, More Accurate Print

ET5 applies dual Z-axis rods and motors to make sure the smooth and accuracy of every slight movement.

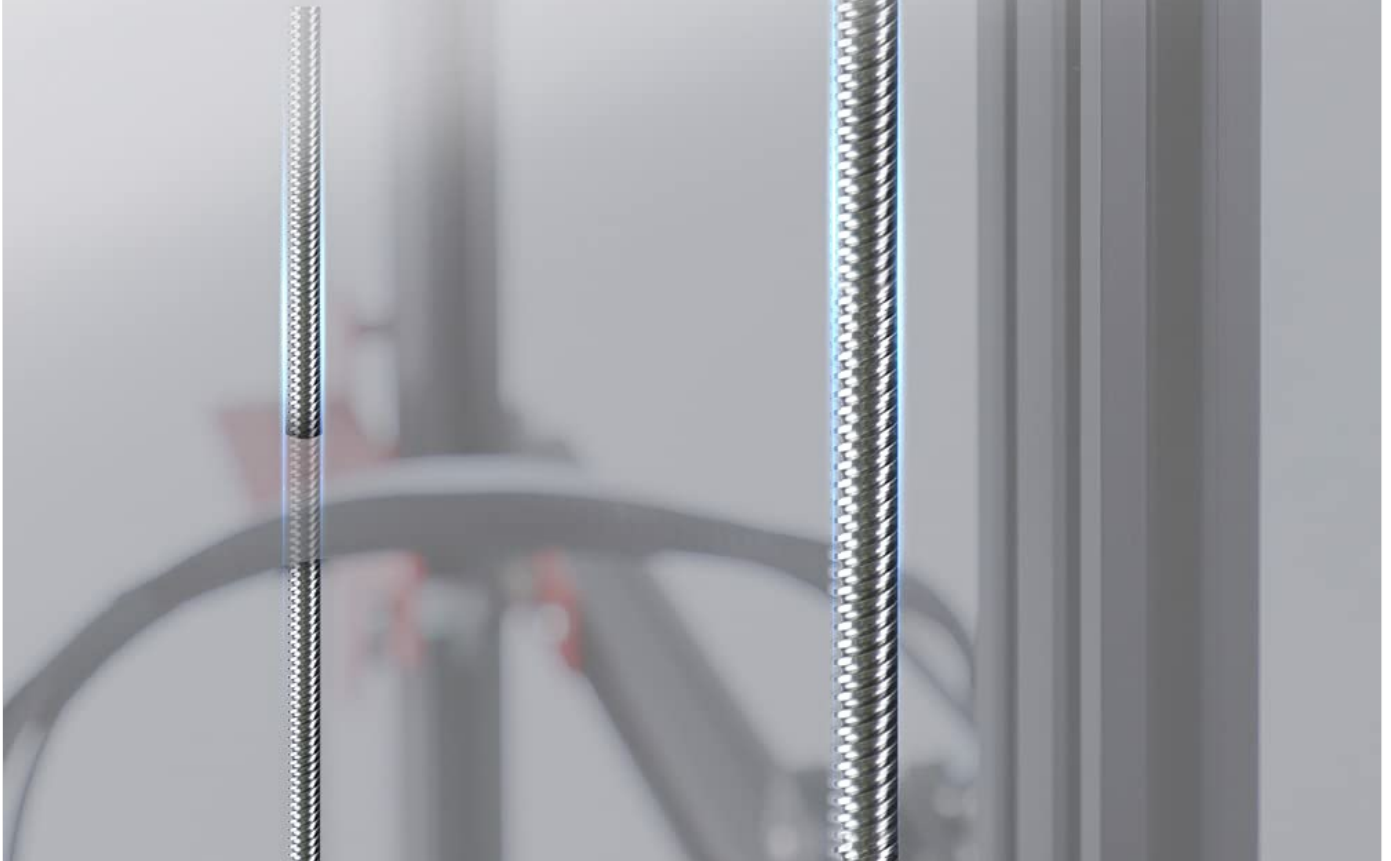


Figure 4.1: Dual Z-axis for enhanced accuracy.

Stable Y-axis Movement

Dual Y axis guideway for a more stable and level moving stage of the build platform.



Figure 4.2: Dual Y-axis guideway for stable build platform.

4.2 Upgraded Control Board

The printer features a self-developed industrial-grade 32-bit control board with an STM407 MCU, ensuring stable operation and high precision. This motherboard also includes thermal runaway protection, automatically powering off the printer if it fails to detect the temperature for a certain period, enhancing safety.

Upgraded Control Board

Self-developed industrial-grade 32bit control board with MCU STMF407. Stable operation with high precision.

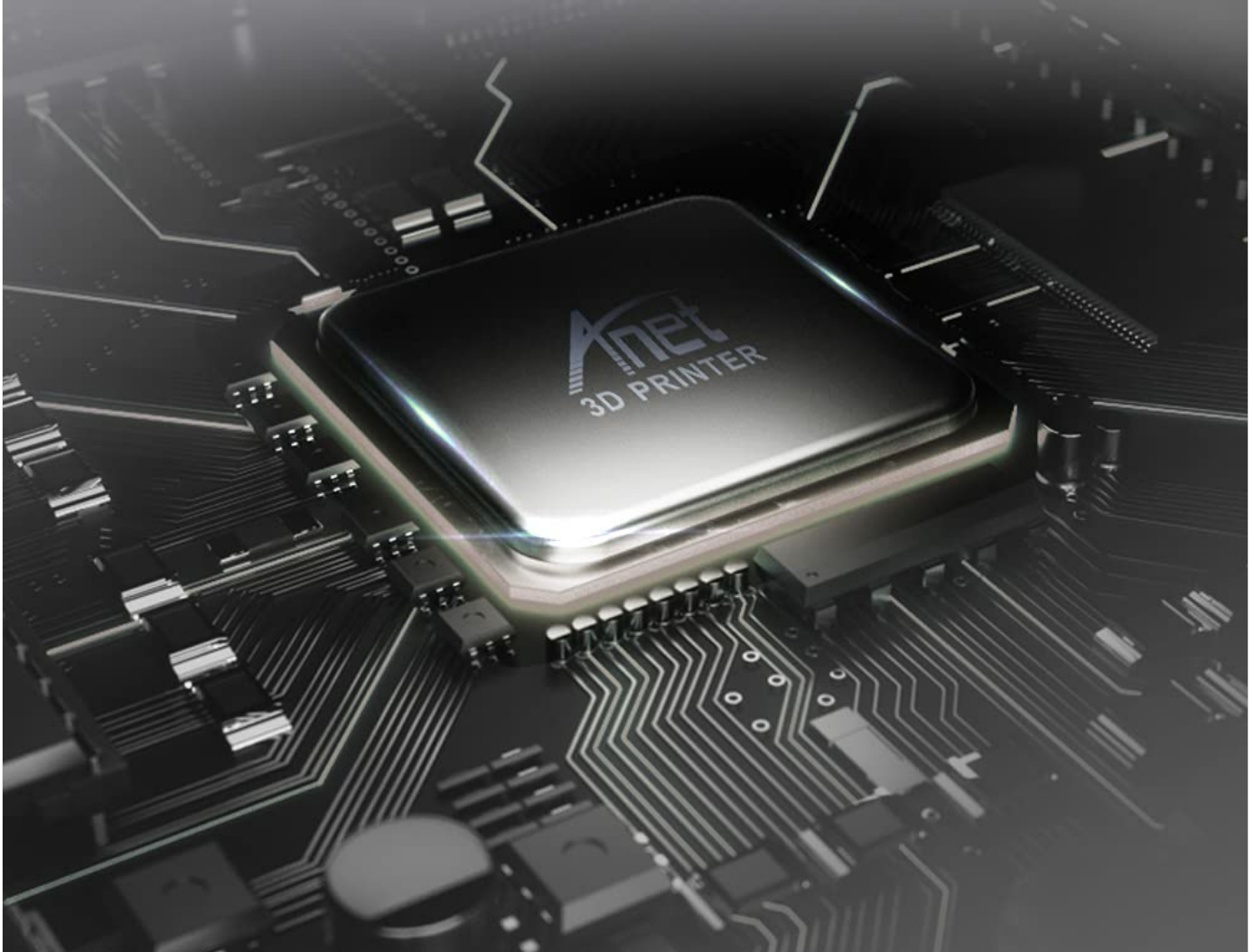


Figure 4.3: Advanced 32-bit control board.

5. MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your Anet ET5 3D printer. Perform the following checks periodically:

- **Clean the Print Bed:** After each print, ensure the print bed is clean and free of debris or filament residue. Use isopropyl alcohol for thorough cleaning.
- **Lubricate Moving Parts:** Periodically apply a small amount of lubricant to the Z-axis lead screws and Y-axis guideways to ensure smooth movement.
- **Check Belts and Pulleys:** Ensure that all belts are properly tensioned and that pulleys are free from obstructions.
- **Clean the Nozzle:** If you notice print quality degradation, the nozzle may be partially clogged. Refer to online resources or the manufacturer's guide for proper cleaning procedures.

- **Inspect Electrical Connections:** Regularly check all electrical connections to ensure they are secure and free from wear.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Anet ET5 3D printer. For more complex problems, refer to the official Anet support resources.

Problem	Possible Cause	Solution
Print not sticking to bed	Bed not level, bed too cold, dirty print surface, incorrect first layer height.	Run automatic bed leveling. Increase bed temperature. Clean the print surface with isopropyl alcohol. Adjust Z-offset for optimal first layer adhesion.
Filament not extruding	Clogged nozzle, tangled filament, incorrect temperature, extruder gear slip.	Clean or replace nozzle. Untangle filament. Verify correct nozzle temperature for filament type. Check extruder gear for debris or wear.
Layer shifting	Loose belts, motor skipping steps, print speed too high.	Check and tighten X and Y axis belts. Reduce print speed. Ensure motors are not overheating.
Printer is noisy	Stepper drivers, fan noise, loose components.	This model may produce some operational noise. Ensure all components are securely fastened. Consider quieter fan upgrades if noise is excessive.

7. SPECIFICATIONS

Detailed technical specifications for the Anet ET5 3D Printer:

Feature	Detail
Brand	Anet
Model	ET5
Print Volume	300 x 300 x 400 mm
Product Dimensions	30D x 30W x 40H Centimetres
Control Board	Industrial-grade 32-bit with STMF407 MCU
Leveling	Matrix Automatic Leveling (25 points)
Display	3.5 Inch LCD Color Touch Screen
Filament Detection	Yes
Resume Printing	Yes (Power Outage Recovery)

Feature	Detail
Axis System	Dual Z-axis, Dual Y-axis Guideway
Power Consumption	250 Watts
Compatible Materials	PLA, ABS, PETG, etc. (Common 3D printing filaments)

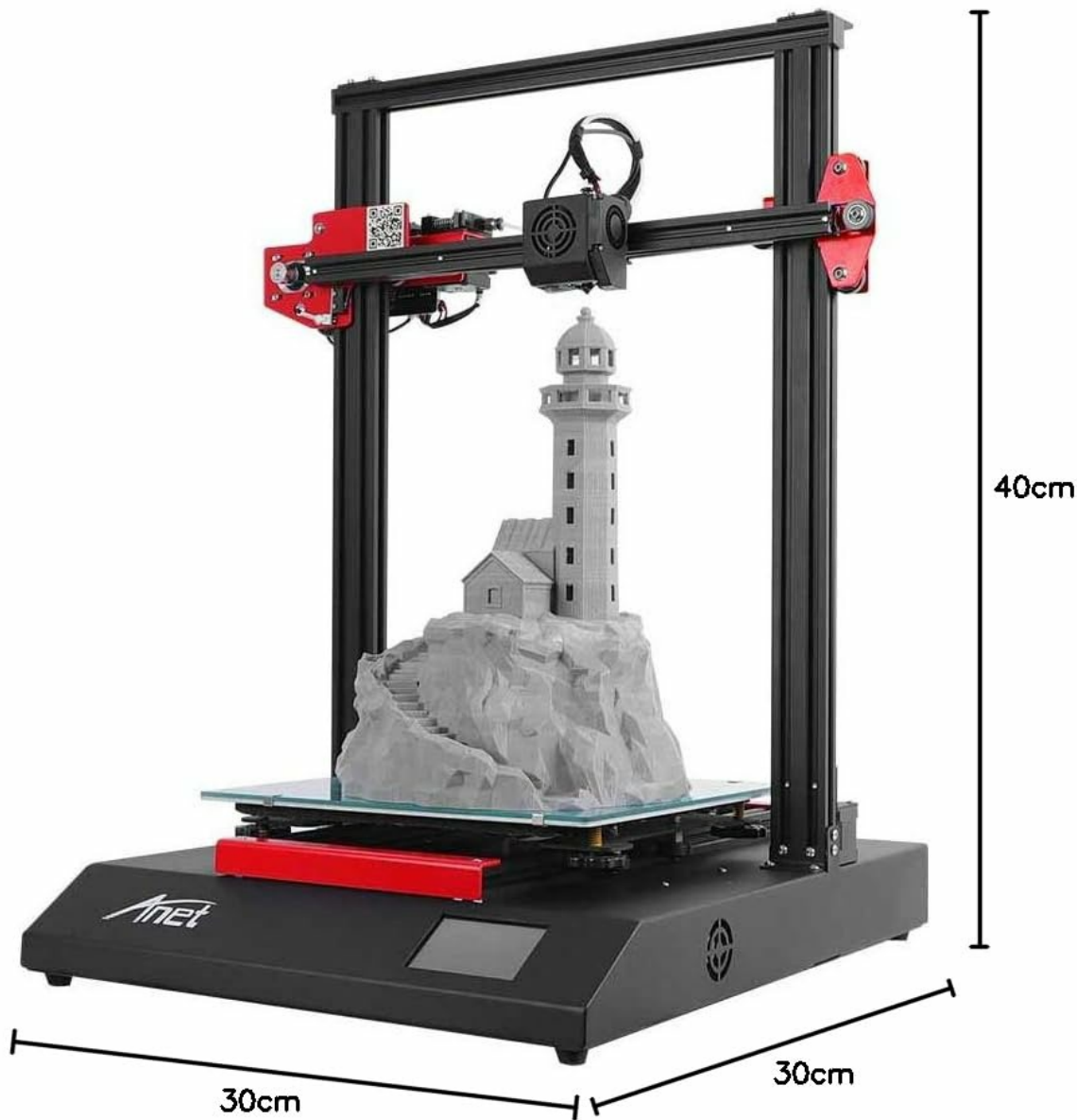


Figure 7.1: Anet ET5 dimensions.

8. WARRANTY AND SUPPORT

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

Official Anet Store: [Anet Official Store on Amazon](#)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question