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› Creality Ender 3 S1 Plus 3D Printer User Manual

Comgrow Ender-3S1 Plus

Creality Ender 3 S1 Plus 3D Printer User Manual

Model: Ender-3S1 Plus

PRODUCT OVERVIEW

The Creality Ender 3 S1 Plus is a high-precision 3D printer designed for both beginners and experienced users. It features a full-metal Sprite Direct Extruder, CR Touch auto-leveling, and a large build volume, ensuring stable and high-quality prints.



Figure 1: Crea3 Ender 3 S1 Plus 3D Printer.

Build Volume Upgrade 11.8*11.8*11.8 in

Print larger-size models, meet more printing needs.



Figure 2: The Ender 3 S1 Plus offers an expanded build volume of 11.8 x 11.8 x 11.8 inches (300x300x300 mm), allowing for larger model prints.

SETUP

1. Unboxing and Initial Assembly

The Ender 3 S1 Plus comes 96% pre-installed, making assembly quick and straightforward. Follow the steps below to set up your printer.

Quick Assembly, Easy to Handle

96% pre-installed, 6-step assembly, easy to use.



Figure 3: Quick assembly guide for the Ender 3 S1 Plus.

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Video 1: Official unboxing and assembly guide for the Ender 3 S1 Plus 3D Printer. This video demonstrates the step-by-step process of setting up the printer from the box, including connecting components and preparing for first use.

2. Power Connection and Voltage Selection

Before powering on, ensure the correct input voltage (230V/115V) is selected on the power supply unit to avoid damage to the machine. Plug in the power cord and turn on the switch.

3. Filament Loading

The printer features a "Sprite" Dual-gear Direct Extruder for smooth filament feeding. Ensure the filament is properly trimmed and fed through the filament sensor and into the extruder.

"Sprite" Dual-gear Direct Extruder Good Filament Compatibility

Brand new direct extruder,
lightweight and powerful, ensures smooth feeding.

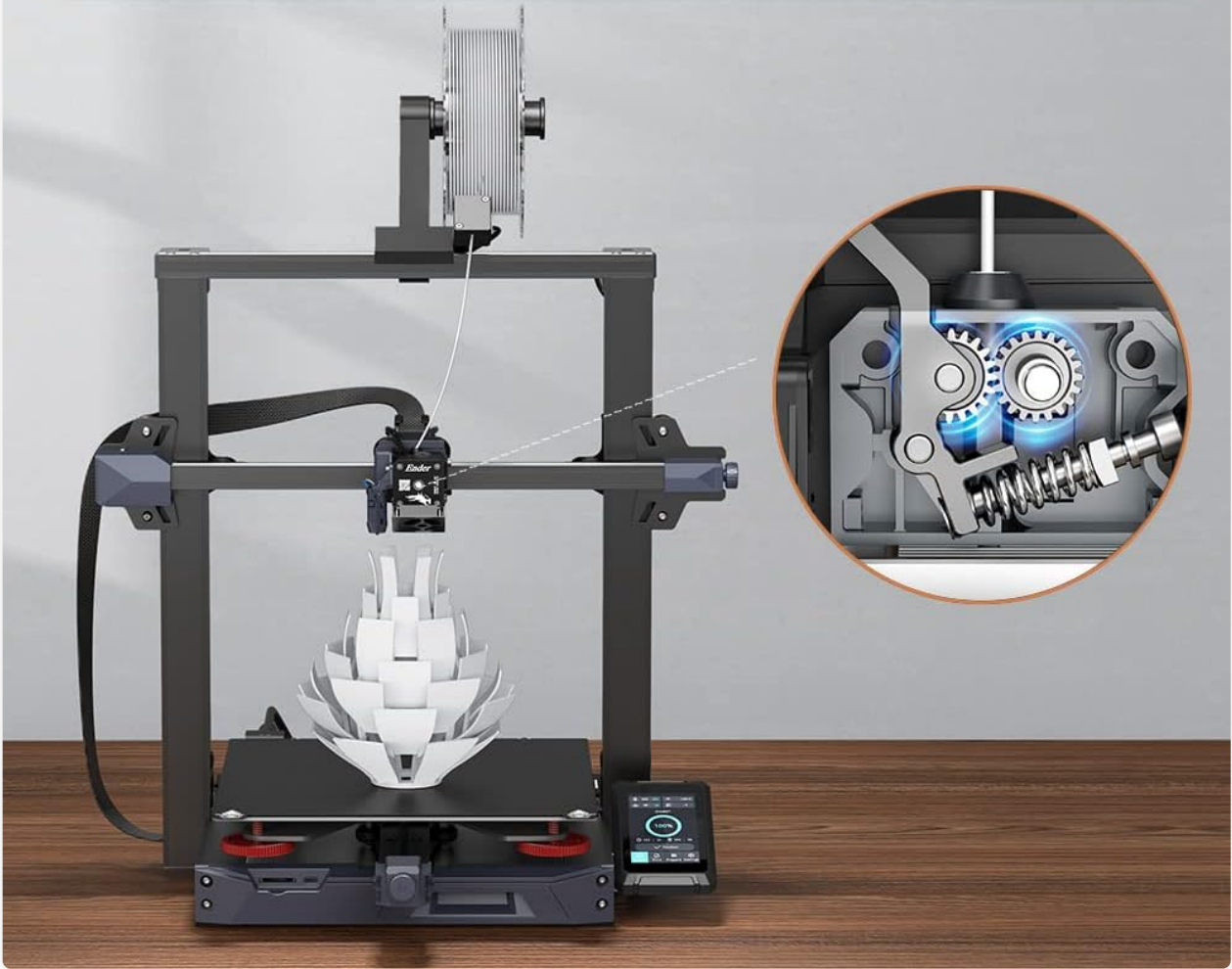


Figure 4: The "Sprite" Dual-gear Direct Extruder ensures reliable filament feeding.

OPERATING INSTRUCTIONS

1. CR Touch Auto-leveling

The CR Touch auto-leveling system provides quick and precise bed leveling with 16-point automatic height compensation. This significantly simplifies the leveling process.

Hassle-free CR Touch Auto-leveling

Quick leveling with automatic height compensation for 16 points on the heatbed.

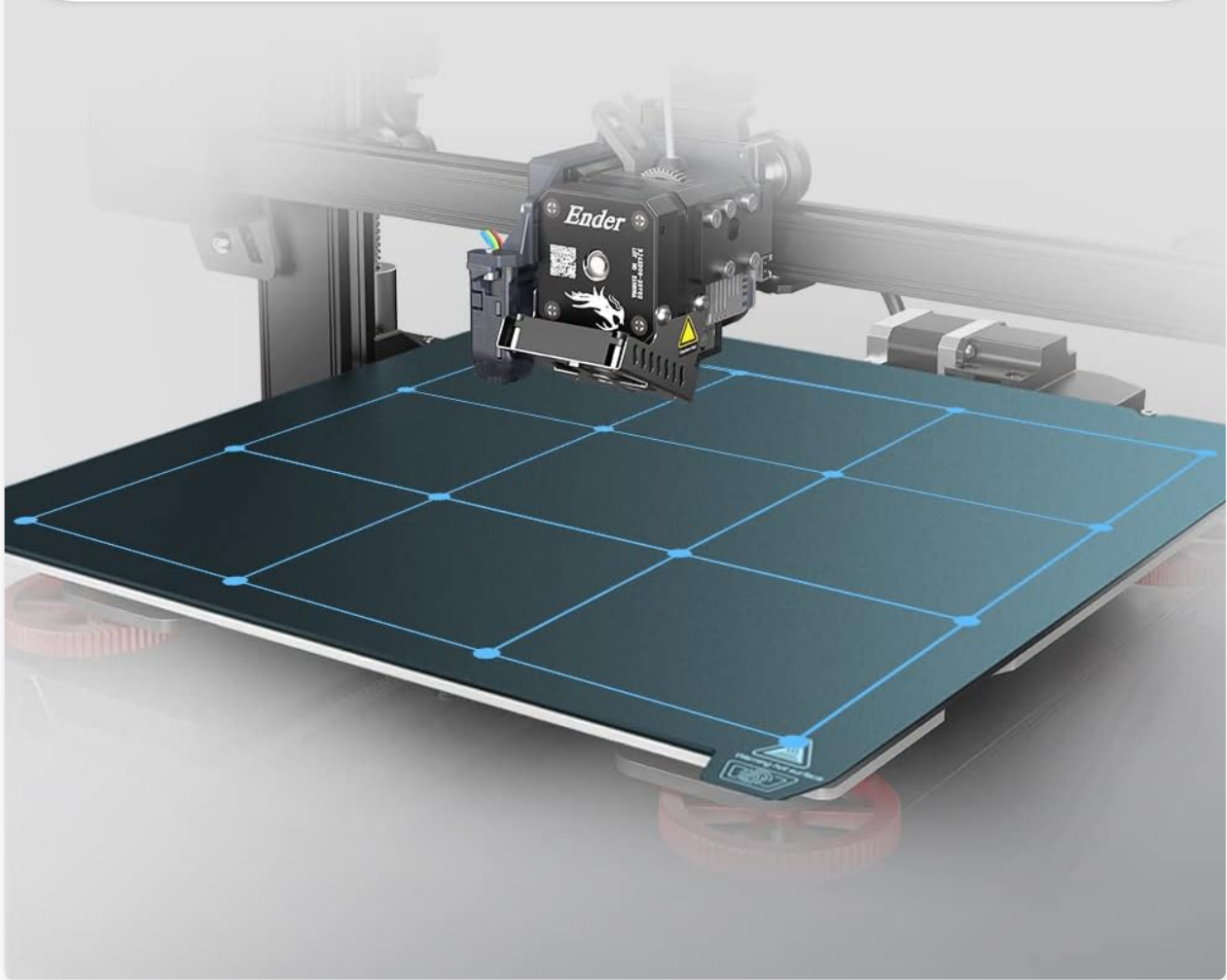


Figure 5: The CR Touch auto-leveling system maps the print bed for optimal first layer adhesion.

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Video 2: Demonstration of the Ender-3 S1 Plus auto-leveling feature. This video shows how the CR Touch system automatically probes the print bed to ensure a perfectly level surface for printing.

2. Touch Screen Interface

The 4.3-inch touch screen provides a user-friendly interface with support for 9 languages. It features automatic dimming for energy saving.

4.3-inch Touch Screen, Click to Control

User-friendly UI supports 9 languages. Automatic dimming out in 3 minutes for energy saving.



Figure 6: User-friendly 4.3-inch touch screen for easy control.

3. Starting a Print

Insert your SD card with the prepared G-code file into the printer. Navigate through the touch screen menu to select your desired model and initiate the print. Ensure the print bed and nozzle are at the correct temperatures for your chosen filament type.

MAINTENANCE

1. Print Bed Maintenance

The magnetic build plate allows for easy removal of prints by simply flexing the plate. Regularly clean the print surface with isopropyl alcohol to ensure optimal adhesion for future prints.

2. Nozzle Cleaning

Periodically clean the nozzle to prevent clogs and ensure consistent extrusion. Use the provided nozzle cleaner or a thin needle to clear any blockages while the nozzle is heated.

3. Z-axis Lubrication

For optimal performance, lubricate the Z-axis lead screws periodically with a small amount of machine grease to ensure smooth and precise vertical movement.

TROUBLESHOOTING

Common Issues and Solutions:

- **Poor First Layer Adhesion:** Ensure the print bed is clean and properly leveled using the CR Touch auto-leveling function. Adjust the Z-offset if necessary.
- **Filament Clogging:** Check for proper filament loading and ensure the nozzle temperature is appropriate for the filament type. Use the nozzle cleaner to remove any blockages.
- **Print Quality Issues (e.g., stringing, layer shifts):** Verify filament quality, check print speed and retraction settings in your slicer software, and ensure all belts and screws are properly tightened.
- **Temperature Errors:** Ensure all thermistor and heater connections are secure. If issues persist, consult the detailed user guide for specific error codes.

For more detailed troubleshooting steps and advanced solutions, please refer to the official [User Guide \(PDF\)](#).

SPECIFICATIONS

| Feature | Detail |
|--------------------|---|
| Model Number | Ender-3S1 Plus |
| Product Dimensions | 11.81"D x 11.81"W x 11.81"H (300x300x300 mm build volume) |
| Item Weight | 29.8 pounds |
| Material | Metal, PLA |
| Color | Black, Grey |
| Extruder Type | Full-metal Sprite Direct Extruder |
| Auto-leveling | CR Touch (16-point automatic leveling) |
| Z-axis | Synchronized Dual Z-axis Screw |
| Display | 4.3-inch Touch Screen |

Manufacturer

Creality 3D

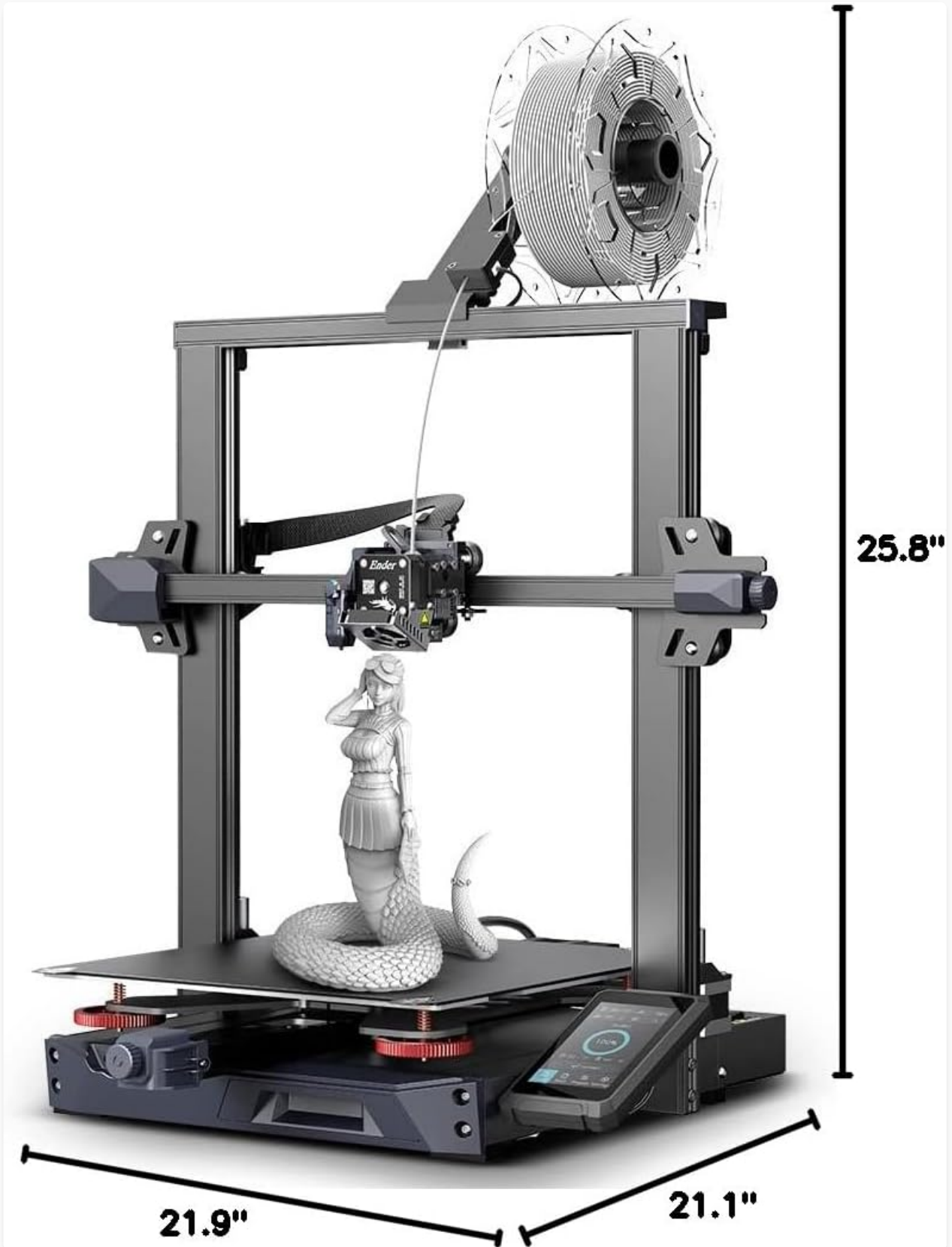


Figure 7: Physical dimensions of the Ender 3 S1 Plus.

Synchronized Dual Z-axis High Precision Printing

Dual Z-axis lead screws and dual motors, stable movement,
higher printing quality.

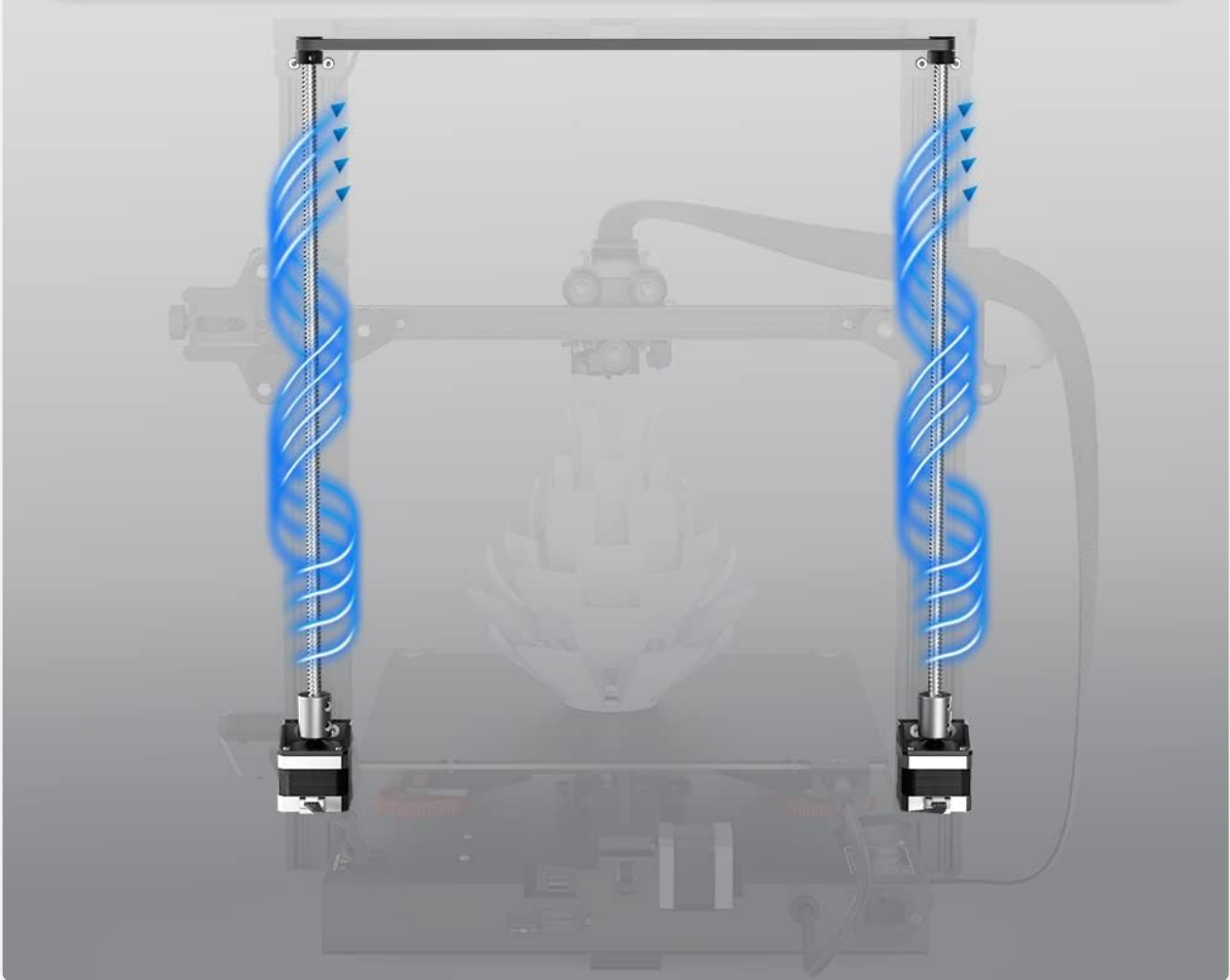


Figure 8: Synchronized Dual Z-axis for enhanced stability and precision.

WARRANTY AND SUPPORT

This product is manufactured by Creality 3D and sold by Comgrow. For any technical assistance, warranty claims, or support inquiries, please contact Comgrow directly via Amazon message. Their professional technical staff are available to provide solutions for 3D printing issues.



Figure 9: Technical support is available for assistance.