**ELEGOO SATURN 3 ULTRA**

# ELEGOO Saturn 3 Ultra MSLA 3D Printer User Manual

Model: SATURN 3 ULTRA | Brand: ELEGOO

## 1. Setup

### 1.1 Unboxing and Initial Setup

Carefully unpack your ELEGOO Saturn 3 Ultra 3D Printer and all included components. Ensure all items listed below are present before proceeding.

- Saturn 3 Ultra 3D Printer Machine
- Wifi Antenna
- Build Platform
- Resin Tank
- U Disk
- Funnel
- Backup Screws
- Adapter
- Tool Kit
- Scraper
- User Manual




Figure 1.1: ELEGOO Saturn 3 Ultra 3D Printer and included accessories.

## 1.2 Installing the Wi-Fi Antenna

Attach the Wi-Fi antenna to the designated port on the rear of the printer. Ensure it is screwed on securely for stable wireless connectivity.

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Video 1.1: Step-by-step guide on how to replace and install the Wi-Fi antenna module.

## 1.3 Installing the Air Purifier

Insert the plug-in USB air purifier into the designated USB port on the side of the printer. This helps maintain an odor-free printing environment with its built-in activated carbon filter.




Figure 1.2: The plug-in USB air purifier for odor-free printing.

## 2. Operating

### 2.1 Build Plate Leveling

Proper build plate leveling is crucial for successful prints. Follow the steps in the video to ensure your build plate is correctly calibrated.

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Video 2.1: Detailed instructions on how to level the build plate for optimal print adhesion.

### 2.2 Adding Resin

Pour the appropriate resin into the resin tank. Ensure the resin level does not exceed the MAX line indicated on the tank.

## 2.3 Slicing and File Transfer

Prepare your 3D model using compatible slicing software. The ELEGOO Saturn 3 Ultra features a 10-inch 12K monochrome LCD for incredible clarity and precision (11520x5120 resolution, 19x24μm XY resolution).




Figure 2.1: The 10-inch 12K Monochrome LCD for high-resolution printing.

Transfer your sliced files to the printer using the convenient Wi-Fi transfer function, supporting 2.4G and 5G networks with speeds of 6-10Mbps. The printer runs on a brand new Linux OS with 4G RAM for stable and faster operation.




Figure 2.2: Convenient Wi-Fi file transfer capability.

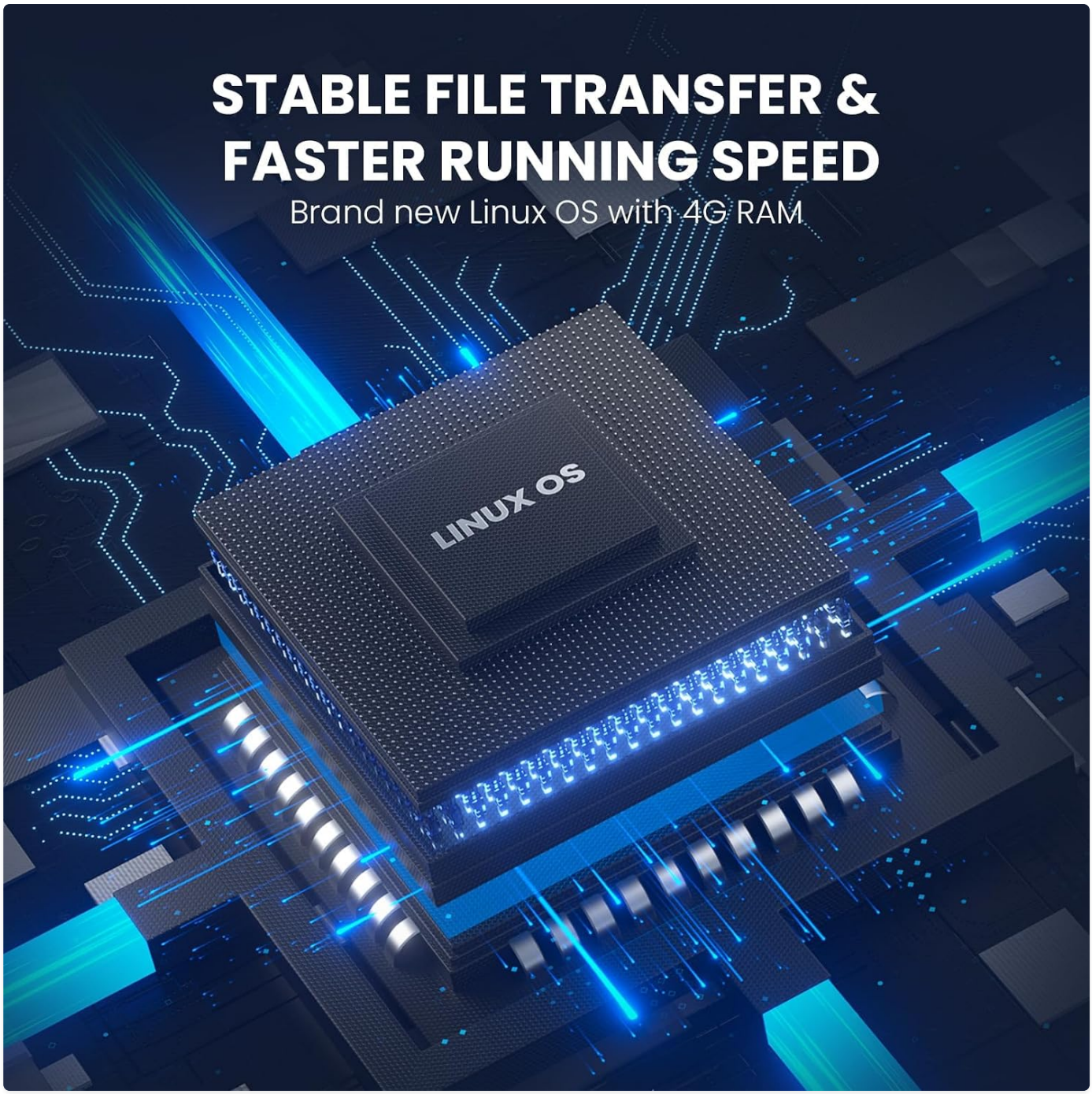



Figure 2.3: The new Linux OS ensures stable and fast operation.

## 2.4 Starting a Print

Select your file from the printer's interface and initiate the print. The printer's 4-point leveling system ensures reliable performance, and the laser-engraved build plate provides excellent adhesion.




Figure 2.4: Reliable printing performance with 4-point leveling and laser-engraved build plate.

The user-friendly 4-inch HD IPS touch screen with a new UI interface allows for easy monitoring of the printing status.




Figure 2.5: The intuitive touch screen interface.

## 3. Maintenance

### 3.1 General Cleaning

Regularly clean the resin tank and build plate to ensure optimal performance and longevity of your printer. Use appropriate cleaning solutions and soft cloths to avoid scratching surfaces.

### 3.2 Replacing the ACF Film

The ACF (Advanced Composite Film) release liner film is a consumable part that may need replacement over time. Follow these instructions to replace it.

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Video 3.1: Instructions for replacing the ACF film in the resin tank.

### 3.3 Replacing the LCD Screen

If your LCD screen is damaged or malfunctioning, it may need to be replaced. Refer to the video for detailed replacement steps.

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Video 3.2: Guide on how to replace the 12K monochrome LCD screen.

## 4. Troubleshooting Common Issues

- **If prints fail to adhere:** Ensure the build plate is properly leveled. Clean the build plate and resin vat thoroughly. Check exposure settings for your specific resin.
- **If prints have poor detail:** Verify the LCD screen is clean and free of debris. Ensure resin is well-mixed and not expired. Check exposure settings and anti-aliasing settings in your slicer software.
- **Wi-Fi connection issues:** Ensure the Wi-Fi antenna is securely attached. Verify the printer is connected to a compatible 2.4G or 5G network. Restart the printer and your Wi-Fi router.

## 5. Product Specifications

| Feature | Specification |
| --- | --- |
| Product Dimensions | 12.01"D x 10.75"W x 22.32"H |
| Item Weight | 30 Pounds |
| Brand | ELEGOO |
| Material | ABS, Aluminum, Polycarbonate |
| Color | Black |
| Item model number | SATURN 3 ULTRA |

## 6. Warranty and Support

For detailed warranty information and technical support, please refer to the official user manual PDF available at User Manual (PDF).

You can also visit the official ELEGOO Store for additional resources and contact information: ELEGOO Official Store.

## 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.

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Anonymous

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**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**