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ELEGOO SATURN 3

ELEGOO Saturn 3 MSLA 12K 3D Printer User Manual

Desktop Resin 3D Printer with 10-Inch Monochrome LCD



Image: ELEGOO Saturn 3 MSLA 12K 3D Printer alongside a detailed 3D printed model.

What's in the Box

Your ELEGOO Saturn 3 MSLA 12K 3D Printer package includes the following items:

- Saturn 3 3D Printer Machine
- Build Platform
- Resin Tank
- U Disk Funnel
- Backup Screws

- Adapter
- Tool Kit
- Scraper
- User Manual



Image: All components included in the ELEGOO Saturn 3 3D Printer package, neatly arranged.

Unboxing Video

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Video: Official unboxing video for the ELEGOO Saturn 3 3D Printer, demonstrating how to safely unpack all components.

Operating Instructions

The ELEGOO Saturn 3 is designed for high-precision resin 3D printing. Follow these instructions for optimal performance.

Key Features

- **10-Inch 12K Mono LCD:** Features a stunning resolution of 11520x5120 and an XY resolution of 19x24µm, capable of producing highly detailed models at up to 70mm/h. The 9H hardness tempered glass protects the LCD screen.
- **Generous Build Volume:** A build volume of 218.88x122.88x250 mm³ (8.62x4.84x9.84 inches) allows for larger models and ambitious projects.
- **Fresnel Collimating Light Source:** COB light source and Fresnel collimating lens ensure a uniform light beam of 405nm wavelength, with light angle within 5° and uniformity over 90%, resulting in accurate and consistent prints.
- **Laser-carved Build Plate:** Provides excellent adhesion for higher printing success rates.
- **Voxeldance Tango Software:** Offers static, smooth, and high-speed printing modes. Compatible with third-party slicers like CHITUBOX and Lychee Slicer via open-source GOO slice file format.



Image: Close-up of the 10-inch 12K Mono LCD screen, highlighting its high resolution.

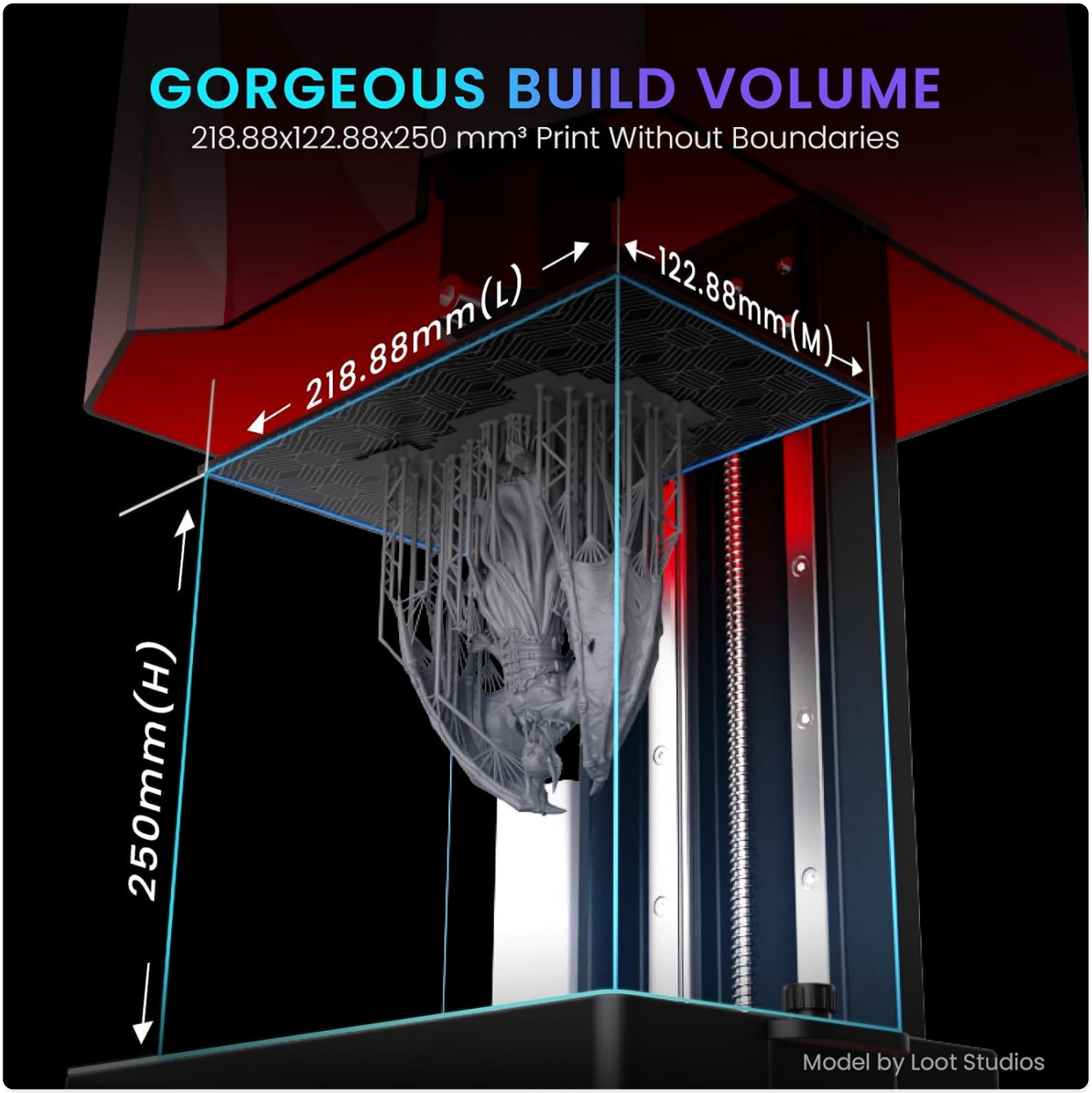


Image: Illustration of the generous build volume, showing dimensions for large prints.

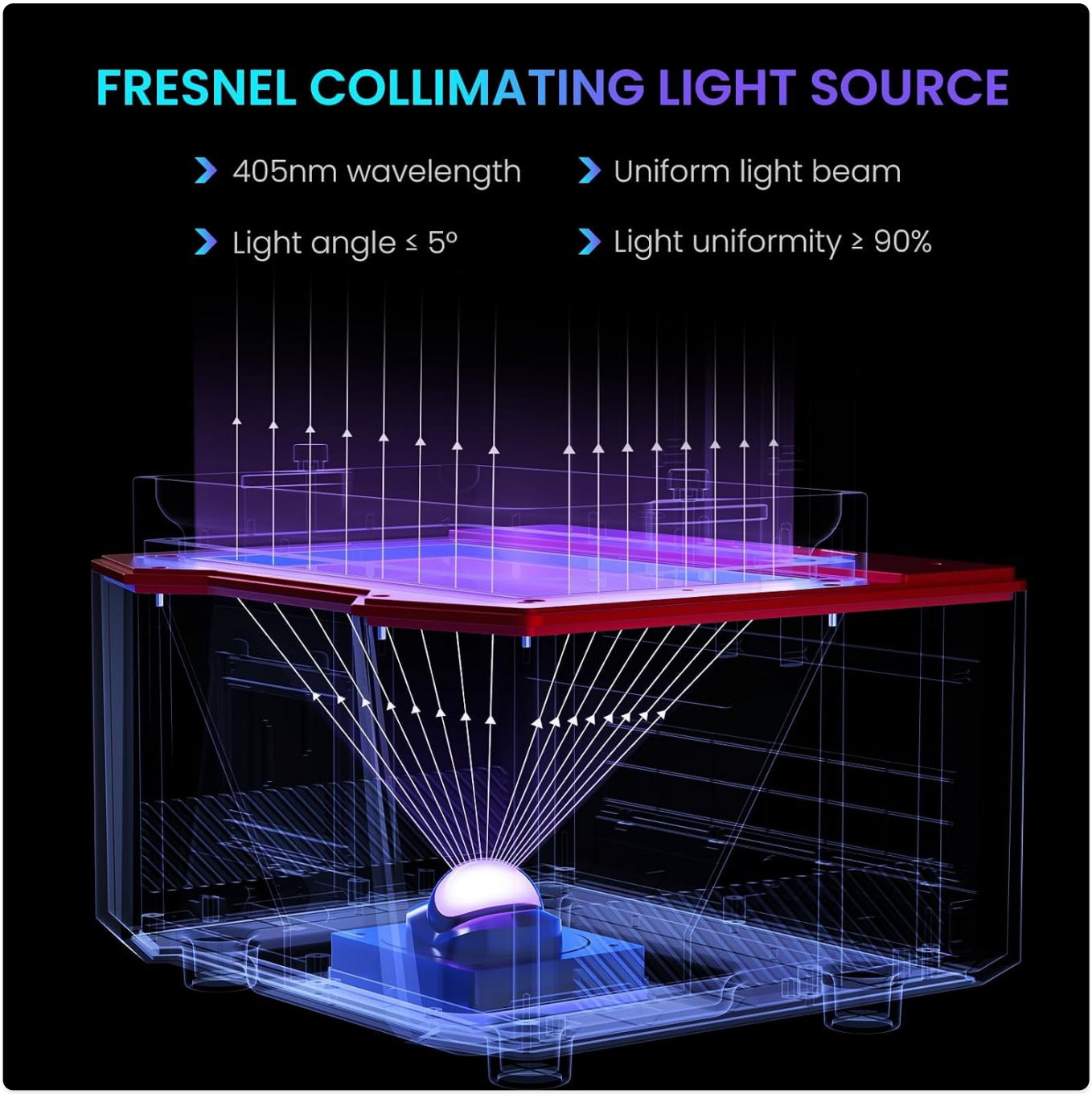


Image: Diagram illustrating the uniform light beam from the Fresnel Collimating Light Source.

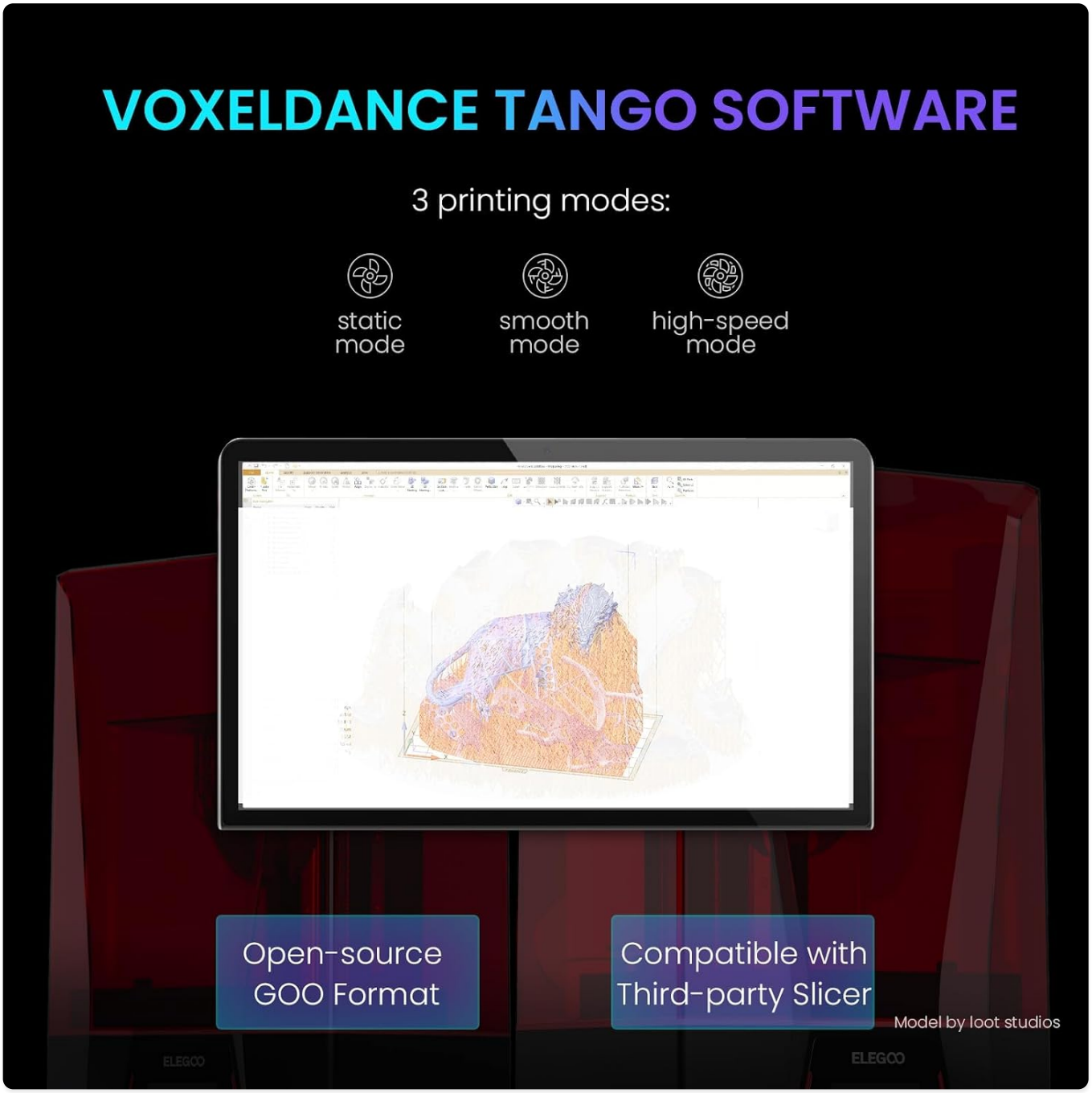


Image: Screenshot of the Voxeldance Tango Software interface, showing slicing capabilities.



Image: Diagram showing the airflow and function of the plug-in air purifier.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your 3D printer.

Component Replacement Guides

Lead Screw Motor Replacement

Your browser does not support the video tag.

Video: Step-by-step guide on how to replace the lead screw motor on your Saturn 3 printer.

Limit Switch Replacement

Your browser does not support the video tag.

Video: Instructions for replacing the limit switch on the ELEGOO Saturn 3.

DC Port Replacement

Your browser does not support the video tag.

Video: Guide on how to replace the DC power port on your Saturn 3 printer.

Troubleshooting

If you encounter issues with your ELEGOO Saturn 3, consider the following general advice:

- Ensure all cables are securely connected.
- Verify that the resin tank is clean and free of cured resin debris.
- Check the build plate for proper leveling and adhesion.
- Confirm that your slicing software settings match the recommended parameters for your resin type.
- Update printer firmware to the latest version for improved performance and bug fixes.

Specifications

Feature	Specification
Product Dimensions	9.84 x 8.62 x 4.84 inches
Item Weight	33.4 pounds
Item model number	SATURN 3
Manufacturer	ELEGOO
Country of Origin	China
Material	ABS, Aluminum, Polycarbonate
Color	Red

Warranty and Support

For detailed warranty information and technical support, please refer to the official user manual provided with your product or visit the ELEGOO official website.
You can also access the User Manual (PDF) for comprehensive guidance.

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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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.

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