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ELEGOO Saturn 4 Ultra 16K

ELEGOO Saturn 4 Ultra 16K Resin 3D Printer User Manual

Brand: ELEGOO | Model: Saturn 4 Ultra 16K

Introduction & Overview

The ELEGOO Saturn 4 Ultra 16K Resin 3D Printer is a high-resolution, high-speed resin printer designed for intricate models. It features advanced technologies such as an automatic heated resin tank, an upgraded AI camera for monitoring, and a smart monitoring system for enhanced reliability.

- **16K Ultra High Resolution:** Impressive 15120 x 6230px (14 x 19µm) XY resolution for detailed prints.
- **Automatic Heated Resin Tank:** Maintains optimal resin temperature (above 25°C) for improved print success rates.
- **Upgraded AI Camera:** Provides real-time monitoring, records processes, and detects issues like model detachment or warping with integrated lighting.
- **True High-Speed Printing:** Achieves 150mm/h print speed through innovative tilted release technology and increased light energy.
- **Smart Monitoring System:** Built-in mechanical sensor monitors resin levels, detects foreign objects, and checks leveling.
- **Easy Setup:** Features like power-on resume, Wi-Fi transfer, and automatic leveling ensure a user-friendly experience.



Figure 1: ELEGOO Saturn 4 Ultra 16K Resin 3D Printer

Video 1: Introduction to ELEGOO Saturn 4 Ultra 16K Resin 3D Printer, highlighting its key features and capabilities.

Setup

Before first use, carefully unbox your printer and ensure all components are present. Follow the steps below for initial setup.

Video 2: Unboxing the Saturn 4 Ultra 16K LCD 3D Printer, showing how to safely remove all components from the packaging.



Figure 2: Overview of the main components included with the Saturn 4 Ultra 16K printer, ready for assembly.

Operating

The Saturn 4 Ultra 16K is designed for efficient and smart operation. Utilize its intelligent features to optimize your printing workflow.

Smart Features

The printer incorporates an AI camera and mechanical sensors to provide real-time feedback and automate key processes.



Figure 3: The upgraded AI camera offers real-time monitoring, detection of model falling off, and warping detection, with added lighting for clear visibility.

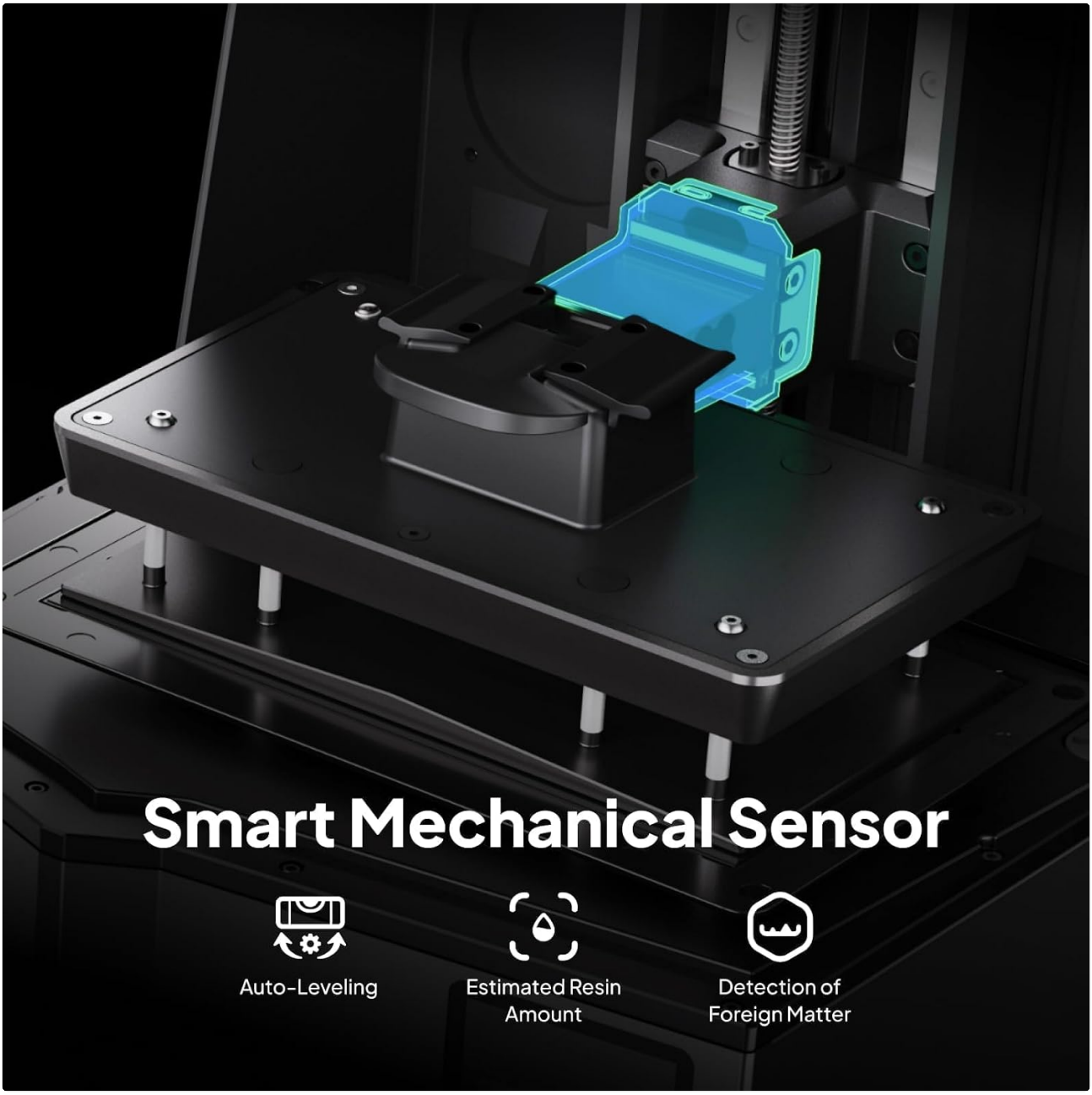


Figure 4: The smart mechanical sensor enables auto-leveling, estimates resin amount, and detects foreign matter in the resin tank.



Figure 5: The printer supports convenient Wi-Fi transfer of print files and offers cluster printing capabilities for multiple units.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your 3D printer. Pay special attention to the resin tank and its components.

Heated Resin Tank

The automatic heated resin tank helps maintain ideal resin properties. Proper care of this component is crucial.

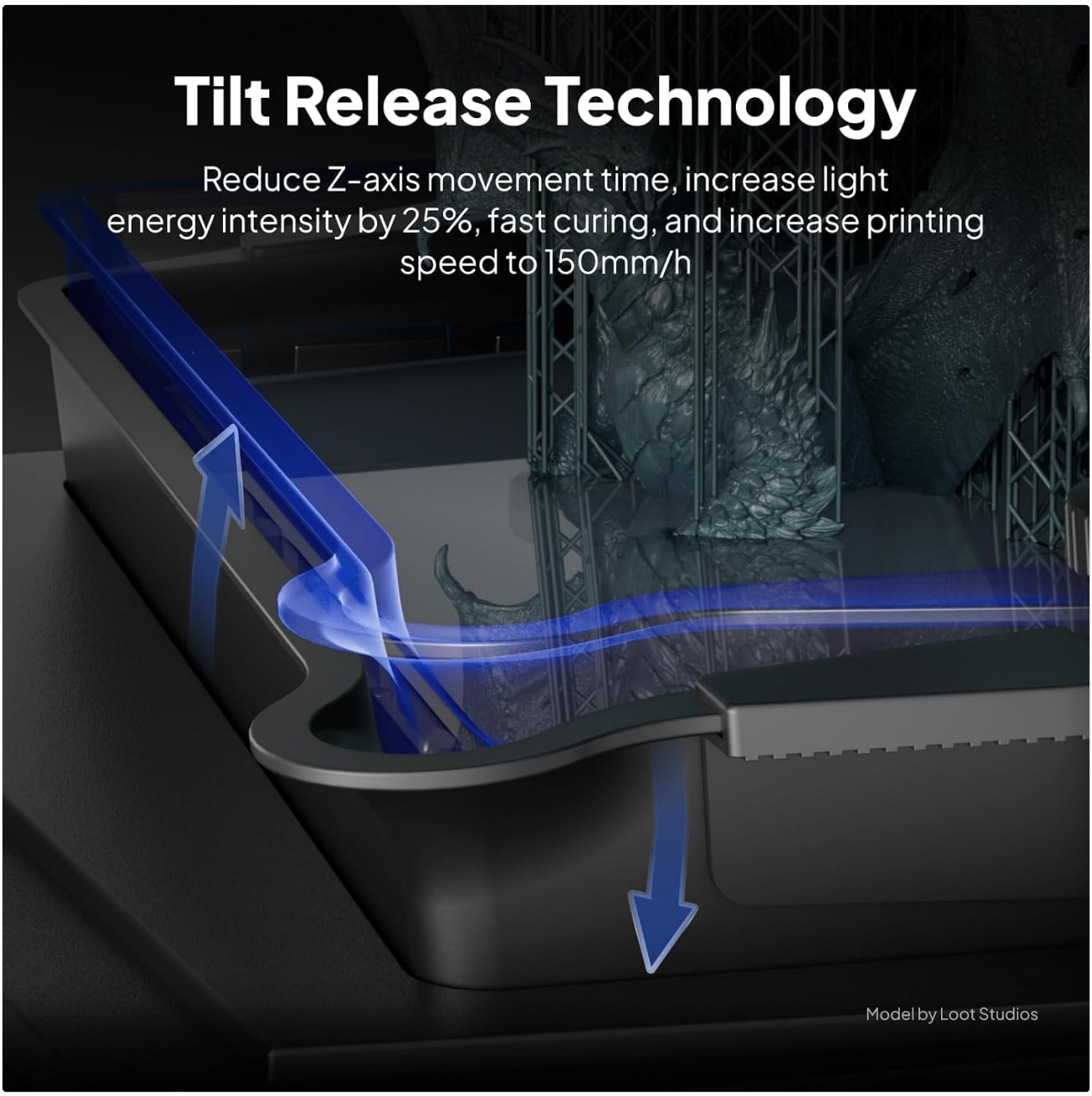


Figure 6: The heated resin tank automatically measures and adjusts temperature to maintain optimal resin conditions for printing.

Video 3: Detailed guide on replacing the thermistor of the resin tank for the Saturn 4 Ultra 16K printer.

Video 4: Instructions for replacing the release linear film on the Saturn 4 Ultra 16K, a crucial step for print quality.

Video 5: Step-by-step guide on how to replace the mini heater PCB located within the resin tank of the Saturn 4 Ultra 16K.

Troubleshooting

For common issues and solutions, please refer to the comprehensive user guide provided with your printer. This PDF document contains detailed troubleshooting steps and diagrams.

You can access the official User Guide (PDF) here.

Specifications

Feature	Detail
Product Dimensions	12.8 x 12.9 x 21.5 inches
Item Weight	35.4 pounds (16.1 Kilograms)
Item Model Number	Saturn 4 Ultra 16K
Manufacturer	ELEGOO
Country of Origin	China
Material	Metal
Color	Black
On-mode Power Consumption	144.0 watts

What's in the Box

- Saturn 4 Ultra 16K 3D Printer

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