

ELEGOO Saturn 4 Ultra 16K 3D Printer



Model: 50.101.038300

Manufacturer: ELEGOO

EAN: 6932704905395

Product Code: 1287509

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ELEGOO Saturn 4 Ultra 16K 3D Printer

ELEGOO Saturn 4 Ultra 16K is an advanced 3D printer that combines precision, innovation and high performance. Featuring a 16K resolution LCD matrix and Tilt Release technology, the device guarantees exceptional detail accuracy and impressive print speed. Equipped with smart features such as an AI camera for print monitoring and a heated resin tank, the Saturn 4 Ultra 16K offers users the ultimate in convenience. It's ideal for both professionals and hobbyists who expect perfect results with minimal effort.

Unparalleled precision and sharpness of 16K details

One of the biggest advantages of the ELEGOO Saturn 4 Ultra 16K is the use of an LCD matrix with an ultra-high resolution of 15120 × 6230 pixels. Thanks to it, every layer of the print is extremely precise, and the smallest details are reproduced with exceptional accuracy. An XY ratio of 14 × 19 µm produces pristine surfaces and sharp edges, eliminating visible layer marks. This solution makes

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Saturn 4 Ultra 16K ideal for jewelry, collector models and parts requiring maximum precision.

Tilt Release - revolutionary high-speed printing technology

SLA 3D printers typically take time to peel each layer of the model off the screen, which slows down the entire process. The ELEGOO Saturn 4 Ultra 16K introduces groundbreaking Tilt Release technology, which tilts the resin reservoir, allowing layers to be separated in an instant. The result? Print speeds of up to 150 mm/h, which means significantly reduced turnaround time for projects without sacrificing quality. This solution makes the device not only fast, but also more efficient in its use of resins and components.

Stable temperature, better print quality

The precision and quality of prints depend largely on the right resin temperature. The Saturn 4 Ultra 16K is equipped with an intelligent heating system that keeps the material at an optimal temperature of 30°C. This keeps the resin at the right viscosity, which increases layer adhesion, reduces bubble formation and minimizes the risk of errors. The stable temperature also influences even curing of the material, resulting in higher quality final models.

Intelligent print monitoring and control

Unexpected errors during printing can lead to material waste and longer runs. The Saturn 4 Ultra 16K solves this problem with a built-in AI camera that enables real-time monitoring of the printing process. The system analyzes every step of the job and alerts the user to potential problems, such as improper layer adhesion or missing material. The camera also allows time-lapse recording, so you can accurately track the entire model creation process and improve future designs.

Wi-Fi connectivity and Cluster Printing function

The ELEGOO Saturn 4 Ultra 16K is not just a single device - it's a system that can operate on a larger scale. With Wi-Fi support in the 2.4 GHz and 5 GHz bands and Cluster Printing, users can synchronize and manage multiple printers simultaneously. Such a solution is particularly useful for large-scale projects requiring batch production. The ability to transfer files wirelessly at 6-10 Mbps makes the whole process smoother and more efficient.

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Automatic leveling and smart sensors

Leveling the work platform is one of the most time-consuming tasks in 3D printers. The Saturn 4 Ultra 16K eliminates this problem with its built-in automatic leveling system. Four precision sensors analyze the platform's alignment and adjust its position to guarantee a perfect first layer. In addition, intelligent sensors detect the absence of resin, the presence of objects on the platform or excessive temperature, ensuring safe and trouble-free operation.

Ergonomic design and durability

The ELEGOO Saturn 4 Ultra 16K has been designed for maximum ease of use. The high-quality metal housing ensures durability and resistance to damage, while the ergonomic design makes it easy to use. The printer features a tilting lid, dual spouts for precise resin pouring, and replaceable locking screws to prevent clogging of the system. In addition, a drip tray helps keep the work area clean, minimizing the risk of resin spills.

Versatility and compatibility

The Saturn 4 Ultra 16K supports a wide range of resins - from standard to specialized resins for technical, medical or artistic applications. This makes the device a great fit for a variety of industries - from engineering and education to jewelry making to modeling and printing precision prototypes. Compatibility with the popular ChituBox software makes it easy to prepare models and optimize the printing process.

Included

- Saturn 4 Ultra 16K 3D printer
- Drip tray
- Construction plate
- Resin reservoir
- Funnel
- Spare screws
- USB flash drive
- Gloves

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- Mask
- Scraper
- Power supply and power cord
- Tool kit
- User manual

Manufacturer Elegoo

Model 50.101.038300

Printing specifications

Technology MSLA

LCD screen 10-inch 16K monochrome LCD display

XY resolution 14 x 19 um (15120 x 6230)

Z-axis accuracy 0.02 mm

Layer thickness 0.01-0.2 mm

Printing speed Max. 150 mm/h

Power requirements 100-240 V 50/60 Hz 24 V 6 A

Light source COB light source + Fresnel collimating lens (405 nm wavelength)

Software

System EL3D-3.0.1

Slicer software ChituBox

Body

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Dimension 327.4 mm x 329.2 mm x 548 mm (L x W x H)

Body volume 211.68 mm x 118.37 mm x 220 mm (L x W x H).

Package size 620 mm x 400 mm x 430 mm (L x W x H)

Gross weight 18.7 kg

Net weight 16.1 kg

Electronics

Operation 4.0-inch capacitive touch screen

Connectivity USB interface, Wi-Fi

AI Camera Built-in 1920 x 1080 resolution

Gross weight: 18900, Net weight: 16100, Box length: 62,50, Box width: 40,50, Box height: 42,00,

Last delivery: 29.09.2026, Information about data generation:

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