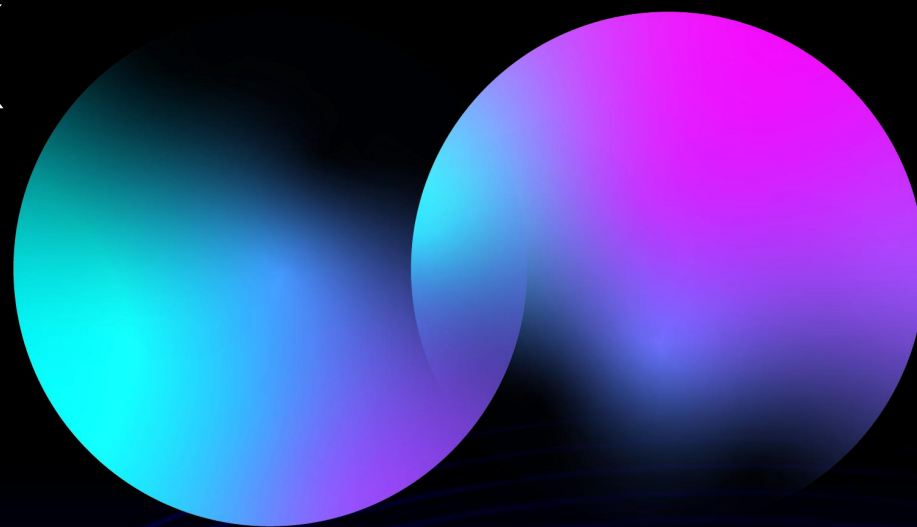


Saturn 4 Ultra 16K

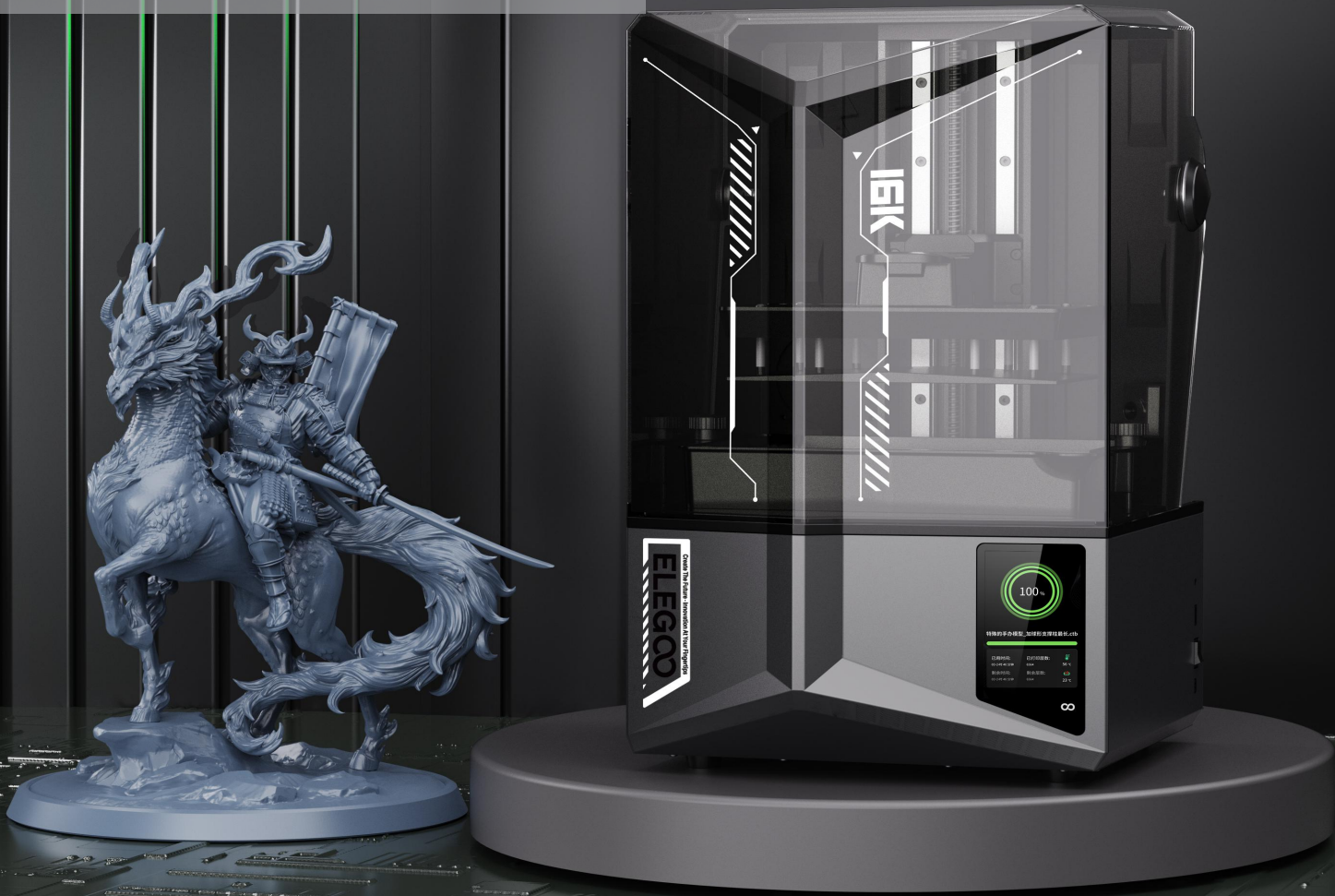
Introduction

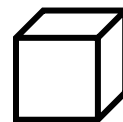


ELEGOO

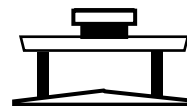
Intelligent Fast 3D Printer

Saturn 4 Ultra 16K





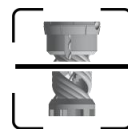
Tilt Release Technology For
Ultra Fast Printing



Smart Auto Leveling



Smart Sensor: Resin Shortage Alert,
Foreign Object Detection Alert



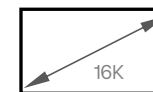
AI Camera Detection



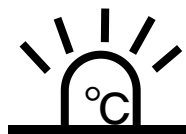
Real-time Monitoring
Time-Lapse Photography



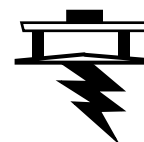
Embedded Wi-Fi
Wi-Fi File Transfer &
Cluster Printing



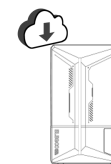
16K LCD
Screen



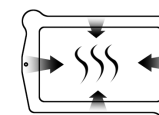
High Temperature
Protection



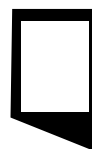
Power-Loss Recovery



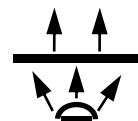
OTA Firmware Upgrade



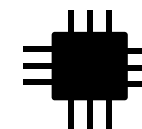
Resin Tank with
Built-in Heater



Vertical Capacitive
Touch Screen



COB & FCLS (Fresnel
Collimating Light Source)



System Solution

Durable Design with a Futuristic Stance

With its sleek all-metal body and convenient flip top, this machine combines style and usability perfectly.



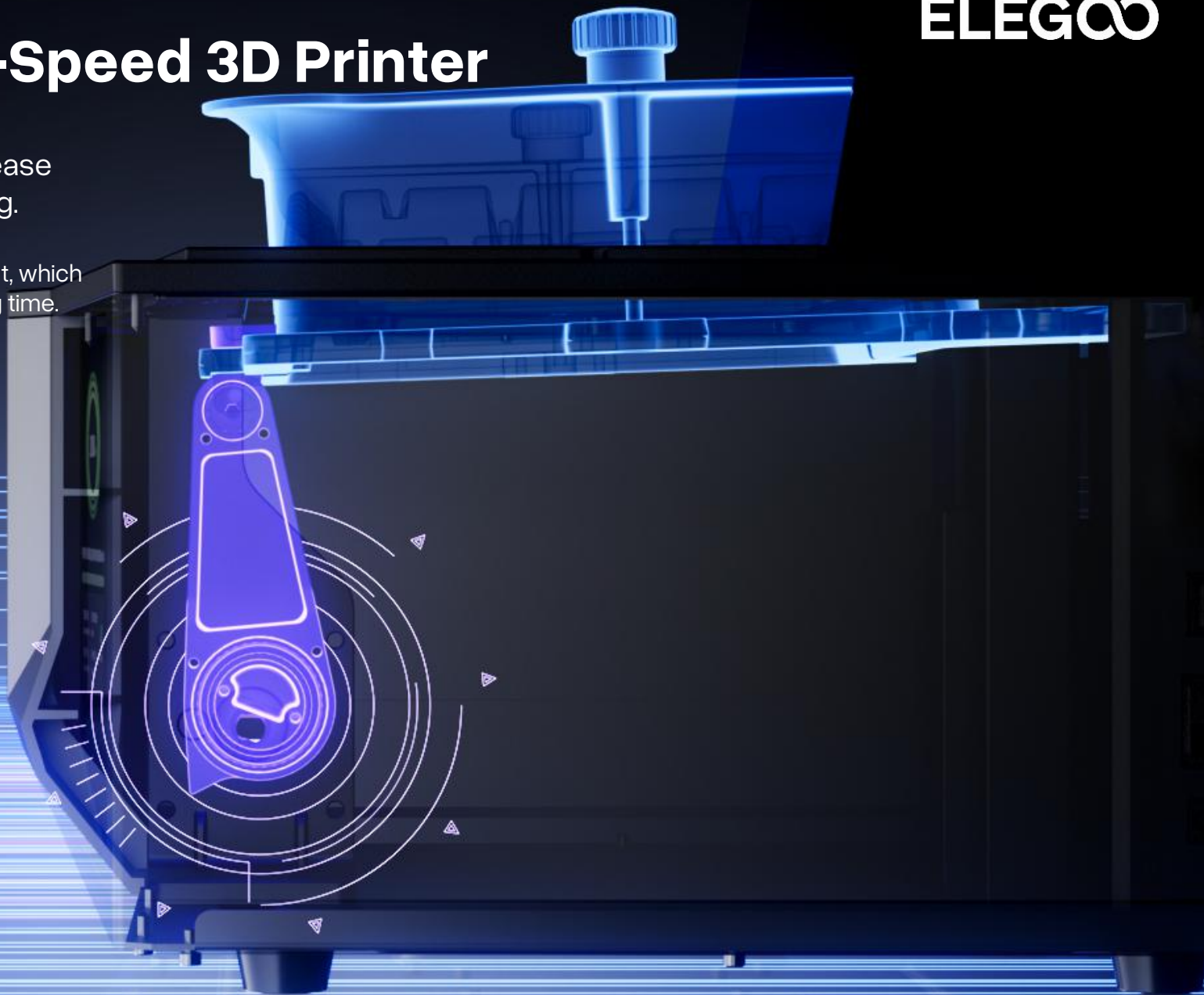
The World's Leading High-Speed 3D Printer

No need for fast resin or ACF release films. With Tilt-Release Technology, you can experience real high-speed printing.

The light energy increased from 4 mW/cm^2 to 5 mW/cm^2 , a 25% boost, which shortens the resin curing time and significantly reduces overall printing time.



Drawbacks of ACF release film: prone to be damaged, poor light transmittance, and it may cause vertical lines in printed models.

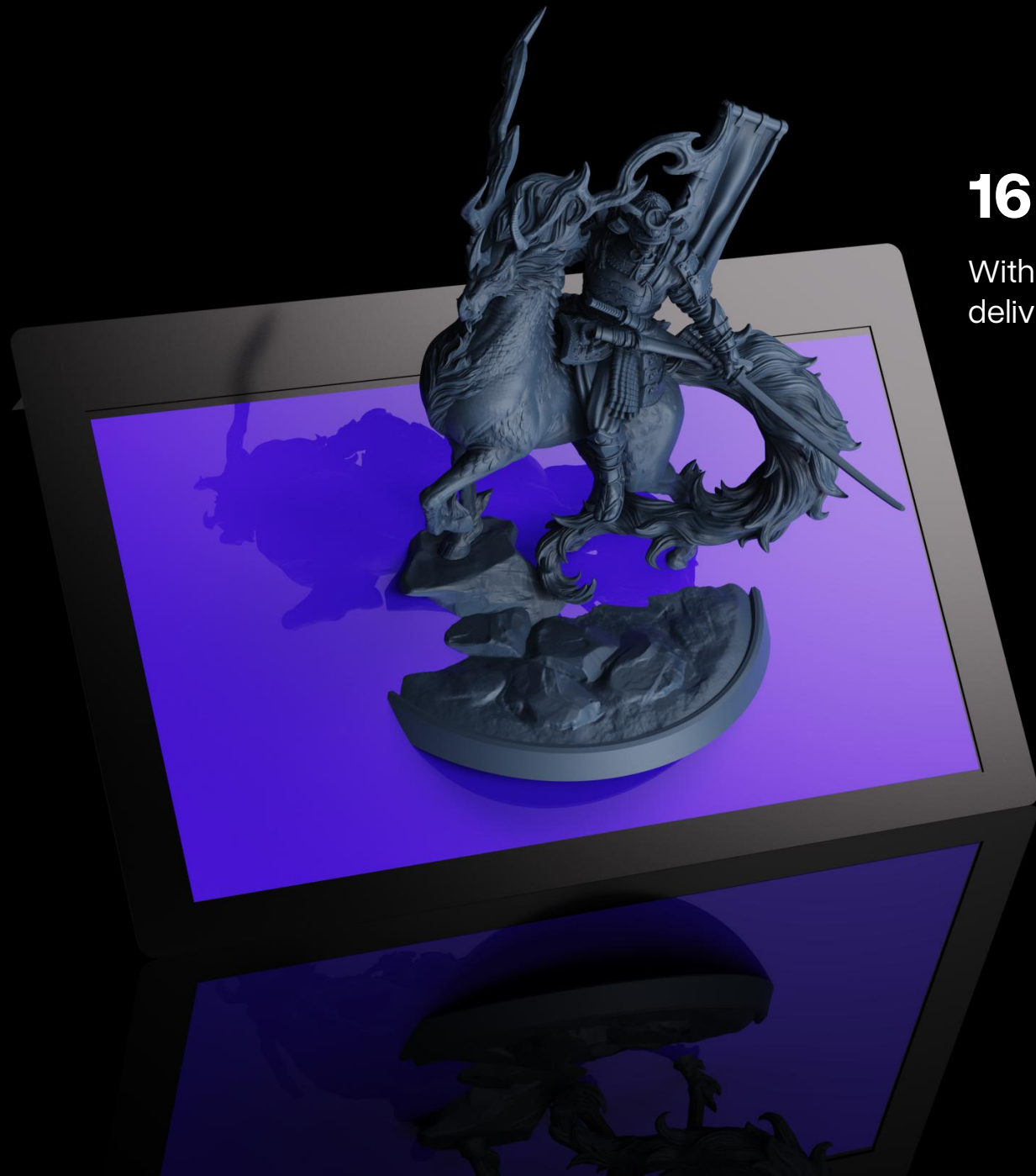


[1] Five mW/cm^2 represents the intensity of light energy received per unit area (per square centimeter) on the surface of an object, which is five milliwatts.

16K Screen Beyond All Bounds

With an XY resolution of 15120 x 6230 px (14 x 19 μm), the machine delivers ultra-vivid colors and richer details in every print.

16K



Automatic Leveling

Print Out of the Box—no more A4 paper method!

Temperature Matters: Optimize Your Resin for Perfect Prints

Low temperatures can impact resin properties, but our heated tank maintains the ideal printing temperature for flawless results.

Smart Temperature Sensing

Sensors monitor and display real-time resin temperature.

Preheat Mode

Keeps resin ready at 25°C, with 24-hour preheating for consistent results.

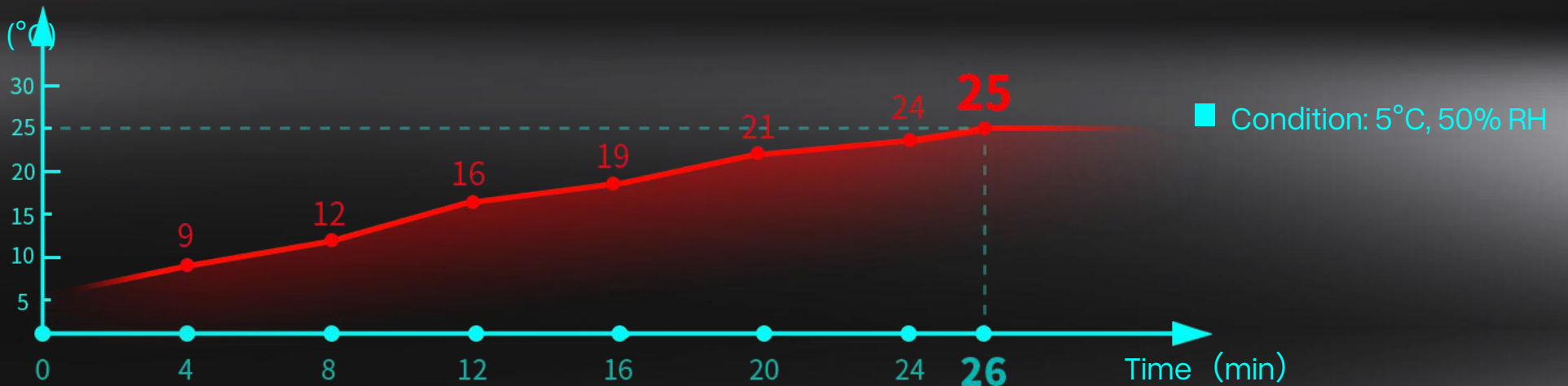
Compatible with All Your Favorite Resins

Supports various mainstream and specialty resins.

Auto Heating

The built-in heater warms the resin in the tank, with the build plate moving up and down to evenly stir it. In conditions of 5°C and 50% humidity, rigid resin reaches 25°C in just 26 minutes.

Resin Tank Temperature (°C)



Mechanical Sensor Alarm

1. Ensure the resin level is between the MIN line and the MAX line; otherwise, the print may fail. The device will estimate the required amount of resin before printing. If the resin level is low, you'll be prompted to add more. You can cancel printing, add resin, and start over, or continue printing and add resin during the process. If the resin needed exceeds the tank's capacity, you'll be prompted to add resin during printing.

2. Troubleshooting is necessary if residue is detected when the Z-axis descends, as it can damage the LCD screen.

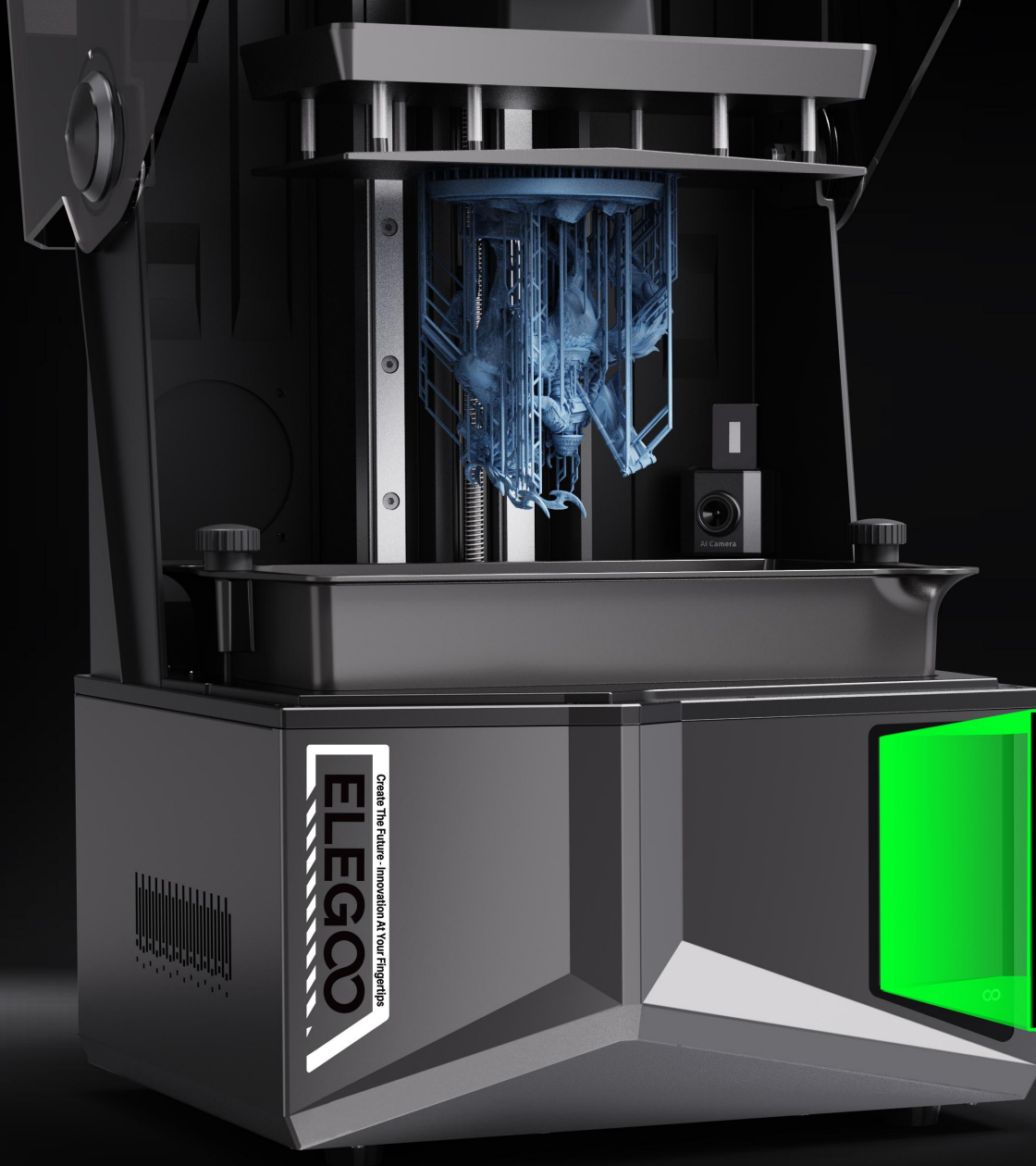
3. The build plate automatically levels itself when it descends to the LCD screen position. Troubleshoot if automatic leveling fails.

4. If "No resin detected / Resin below minimum level" appears, stop printing and troubleshoot, or continue if there's enough resin available.



High Temperature Protection, Power-Loss Recovery, Device Self-Check, Fast And Slow Modes Switch

- 1. High Temperature Protection:** Printing stops when the UV light temperature reaches 80°C and resumes once the temperature is lower.
- 2. Power-Loss Recovery:** In case of a power loss, click "continue printing" to resume or "Cancel" to remove the model, clean the vat, and then continue printing.
- 3. Device Self-Check:** A prompt will notify you to change the release film when the usage count approaches **60K times**. Afterward, simply reset the usage count manually.
- 4. Fast and Slow Modes Switch:** You can switch between the fast and slow modes before or during printing. The print time/layer is **5.5s** in fast mode and **8s** in slow mode.



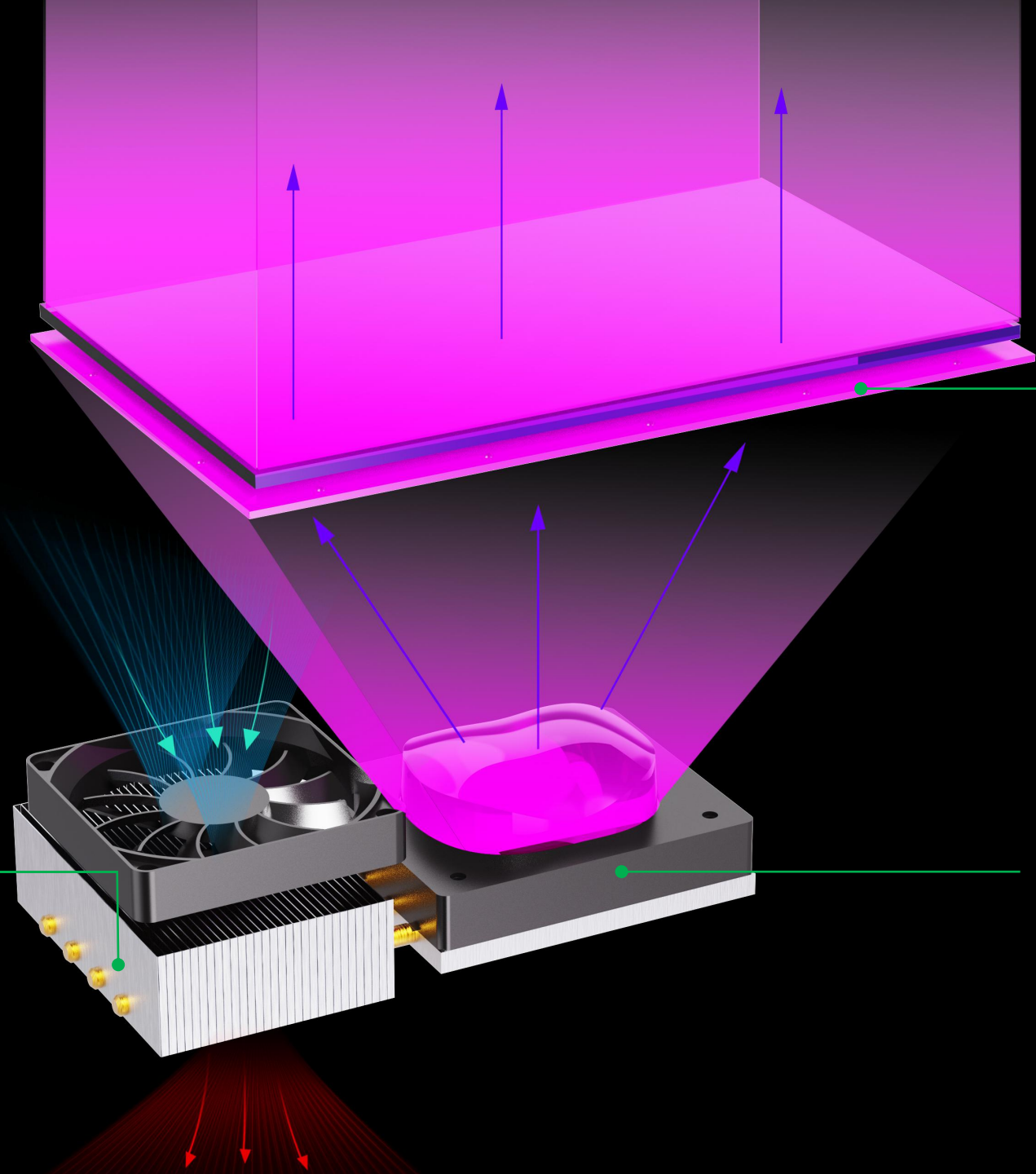
Fresnel Lens

ELEGOO

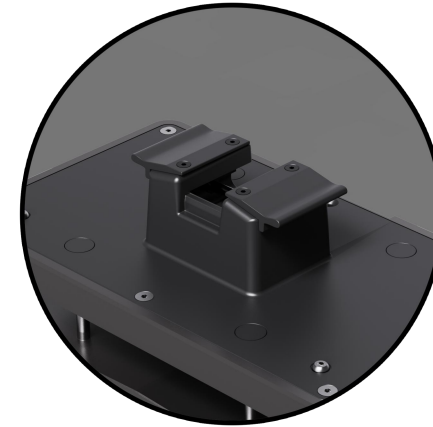
Heat Dissipation
Structure

16K Mono Screen

Freeform Lens



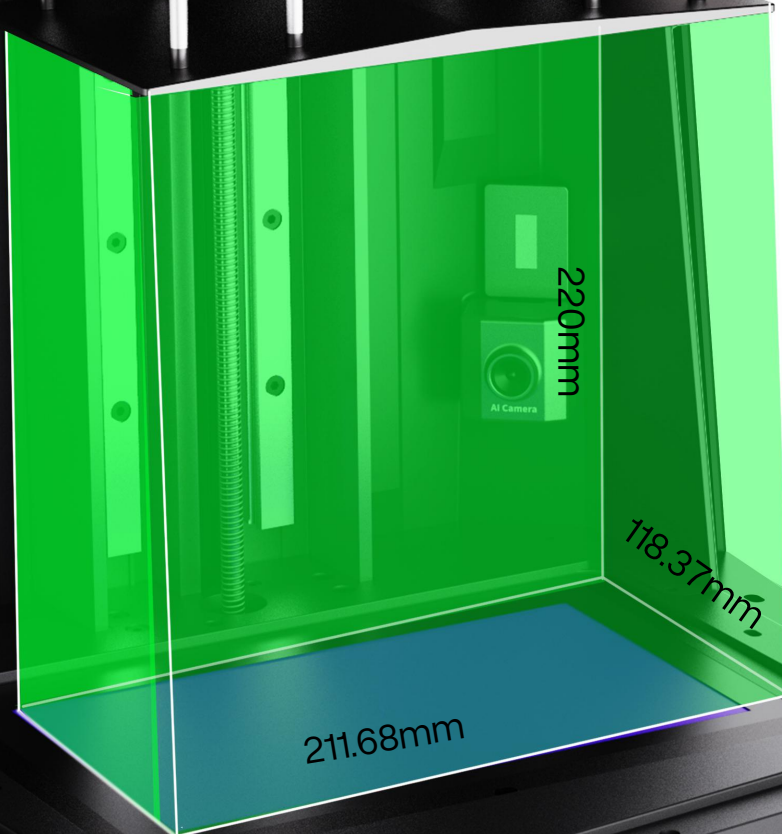
ELEGOO



Enhanced with an anti-slip design
for a sturdy build plate!

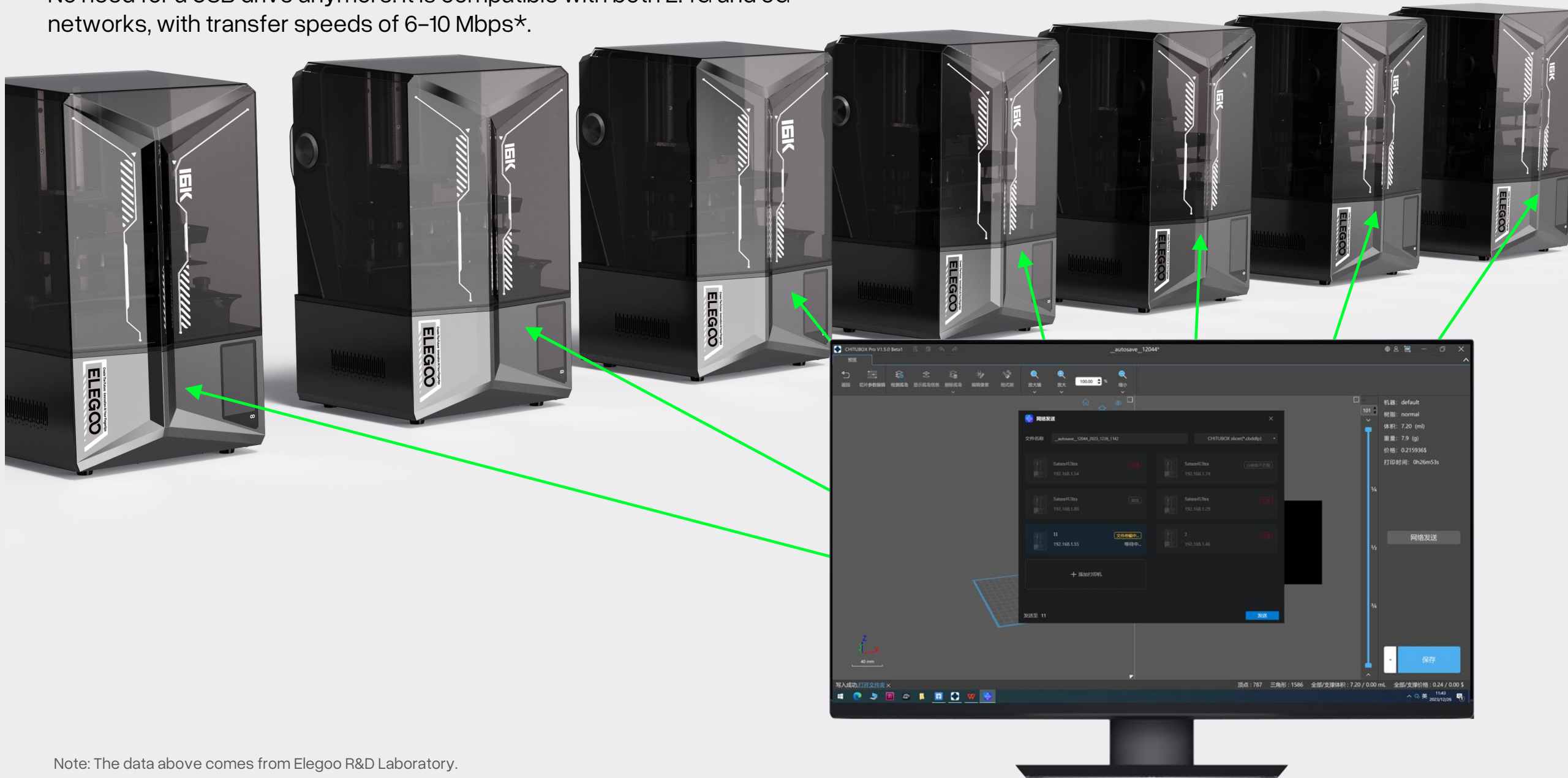
Large Build Volume

With a build volume of 211.68 (L) × 118.37 (W) × 220 (H) mm, it caters to a wide range of users' creative endeavors.



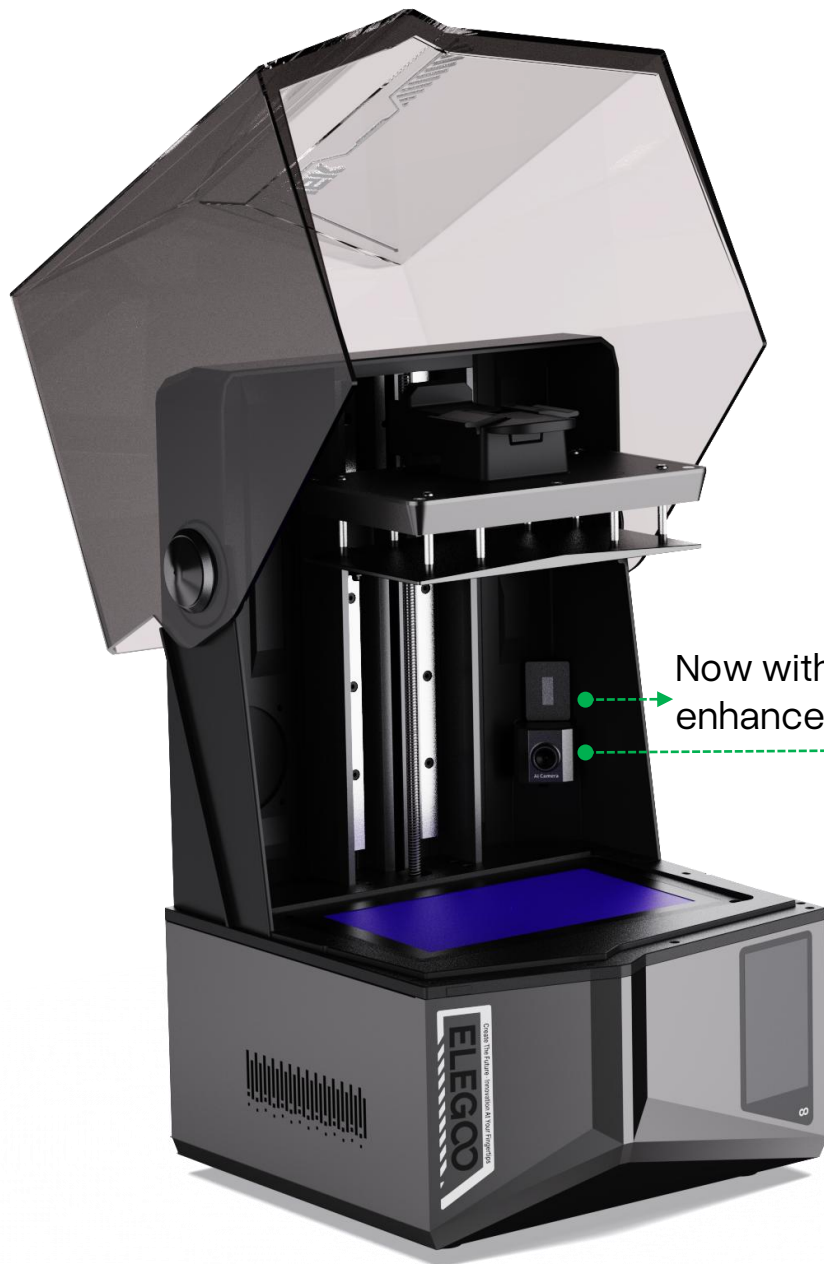
ELEGOO

to need for a SSD drive any more is compatible with both E1P and E3 networks, with transfer speeds of 6-10 Mbps*.



Note: The data above comes from Elegoo R&D Laboratory.

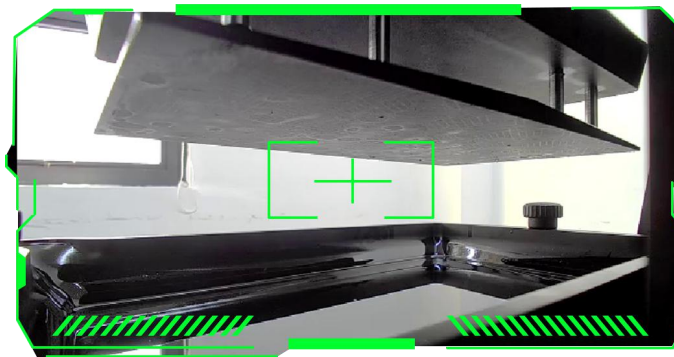
Note: The data above comes from Elegoo R&D Laboratory.



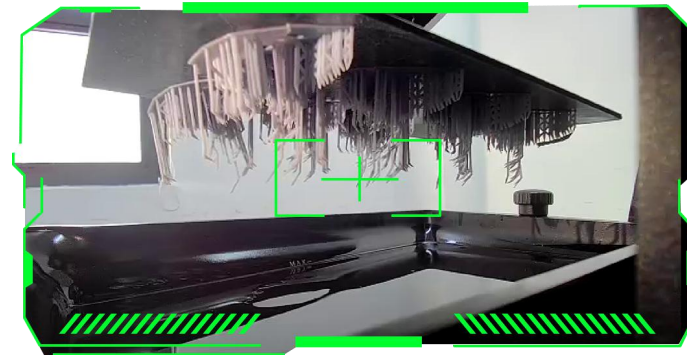
Now with
enhanced lighting

AI Camera Detection

1. Empty Build Plate Detection

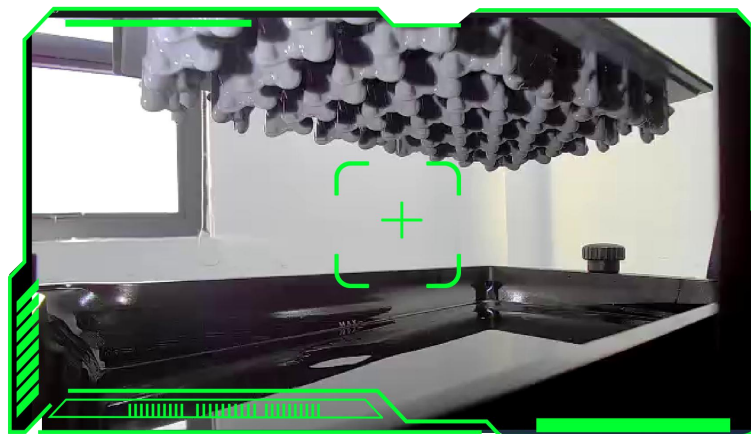


2. Warping Detection



Real-Time Monitoring & Time-Lapse Photography

View the printing process in real time and record the whole printing process.



OTA Firmware Update

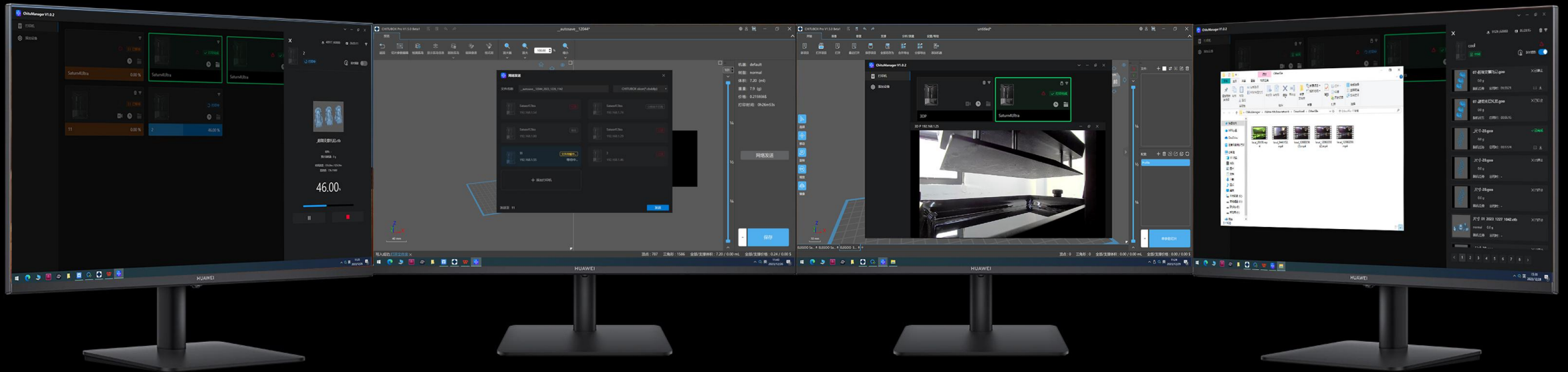
When the device is connected to the internet and an update is available, it will notify users of the new system version, and they can click to upgrade online.

Embedded Wi-Fi

The following features are currently only compatible with Chitu Slicing Software.



The Local Area Network (LAN) provides more secure, stable, and faster data transmission than a wide area network (WAN). It features remote file sending, remote printing control, real-time monitoring, and time-lapse photography.



Remote Files Sending

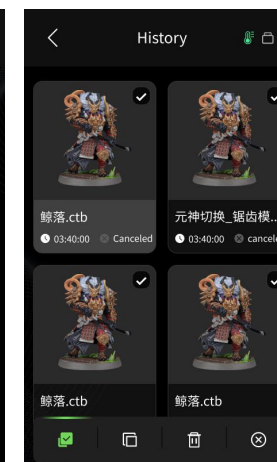
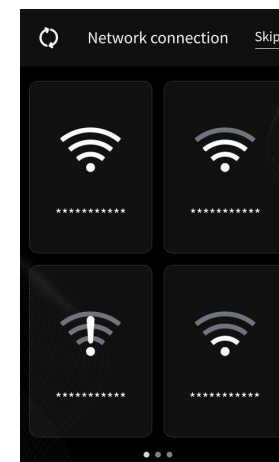
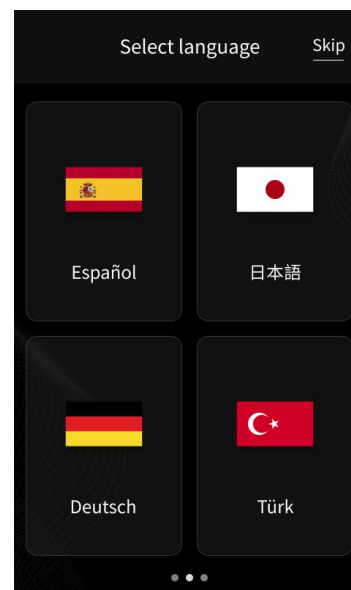
Remote Printing Control

Real-time Monitoring

Time-lapse Photography

Multiple Languages Brand-New UI Design

12 supported languages: Chinese, English, Japanese, Korean, Portuguese, Russian, Turkish, German, Spanish, French, Dutch, and Italian.

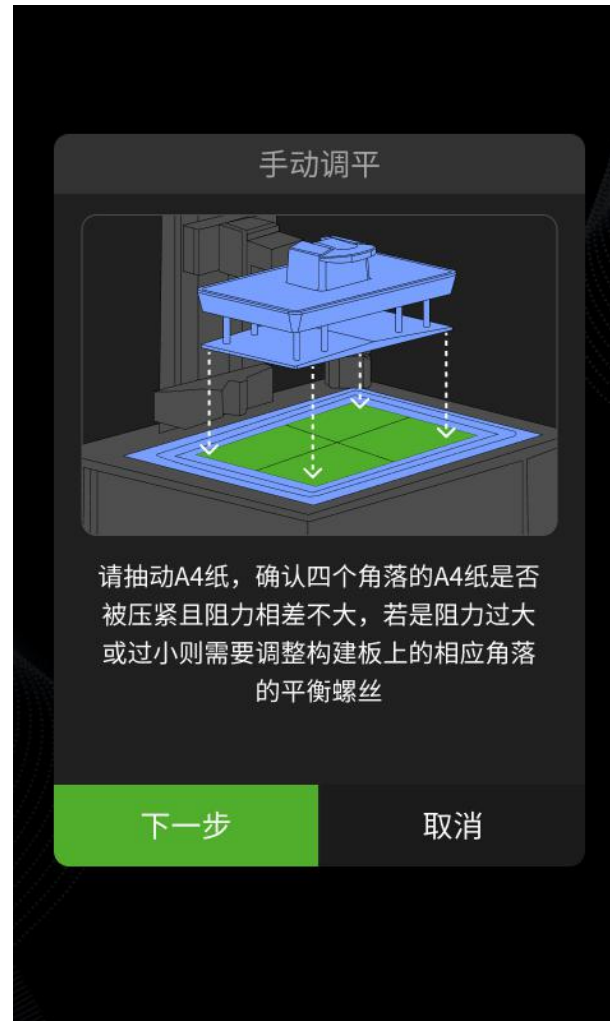
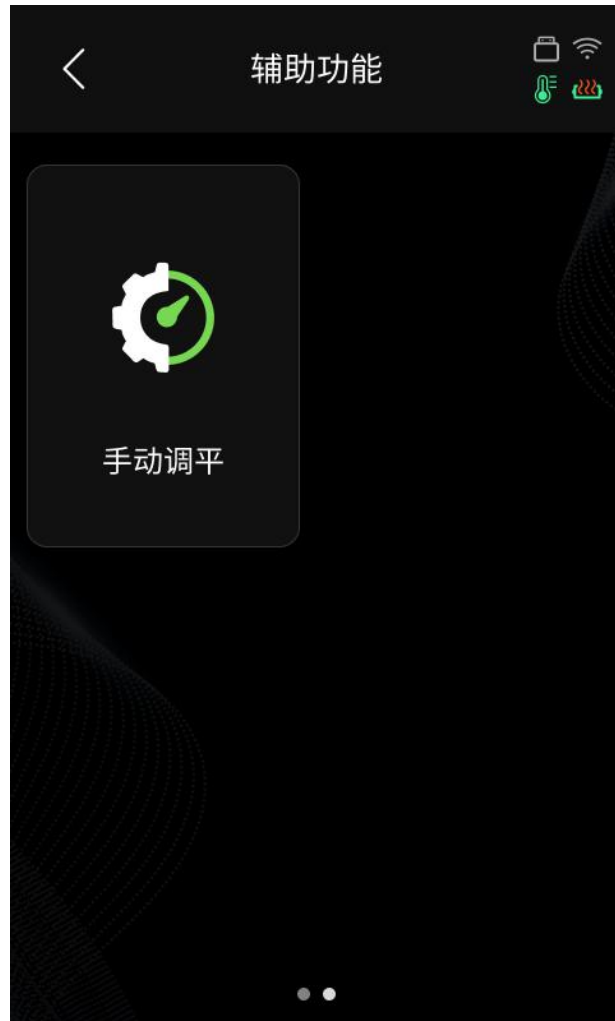


Featured startup guide designed for first-time users to choose their preferred language.

Optional Bed Leveling

ELEGOO

If the build plate fails to auto-level during printing, select manual leveling in the accessibility menu. Follow the instructions to adjust the screws for proper alignment between the build plate and the screen. This helps prevent warping or detachment and ensures a smoother printing experience.

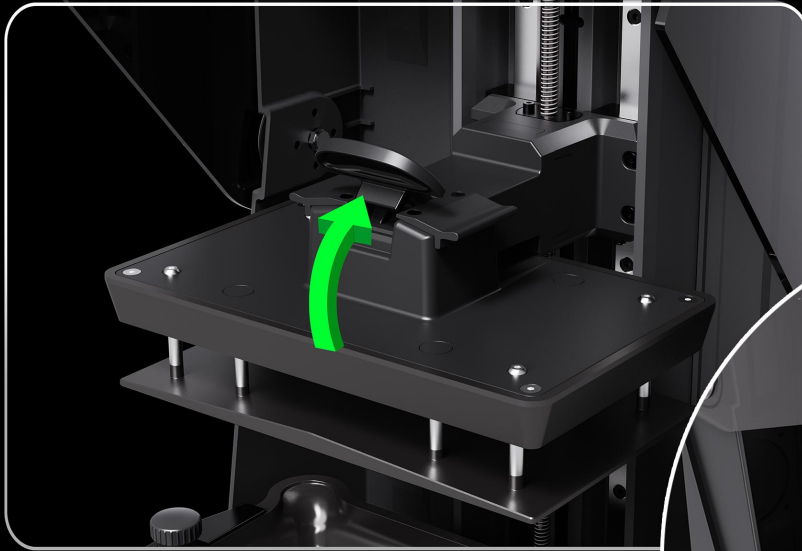


Focused on Your Experience

ELEGOO

Next level in every design detail. Crafted for easy use every step of the way.

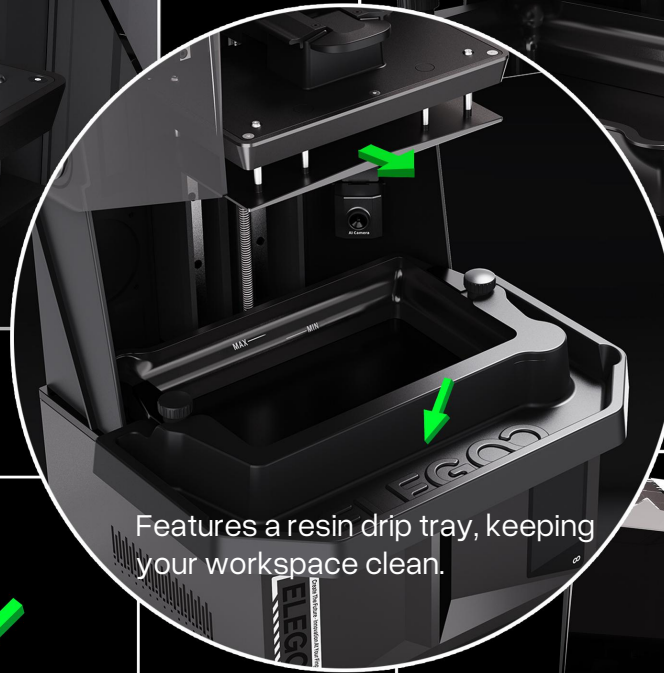
Easy release
and lock design



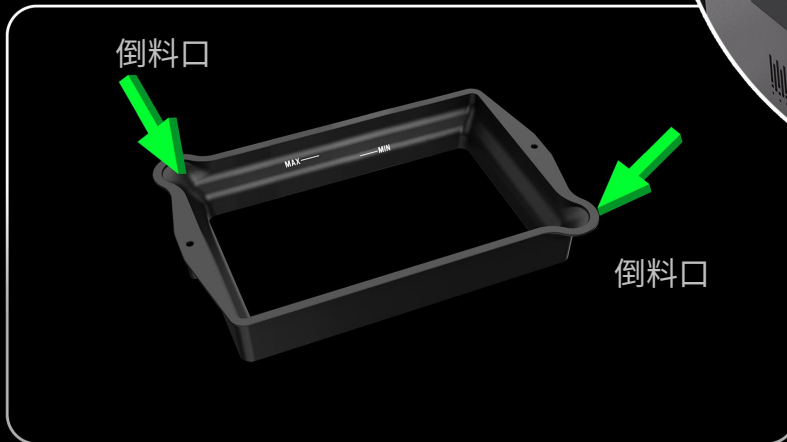
No fear of resin
clogging with
replaceable vat
locks



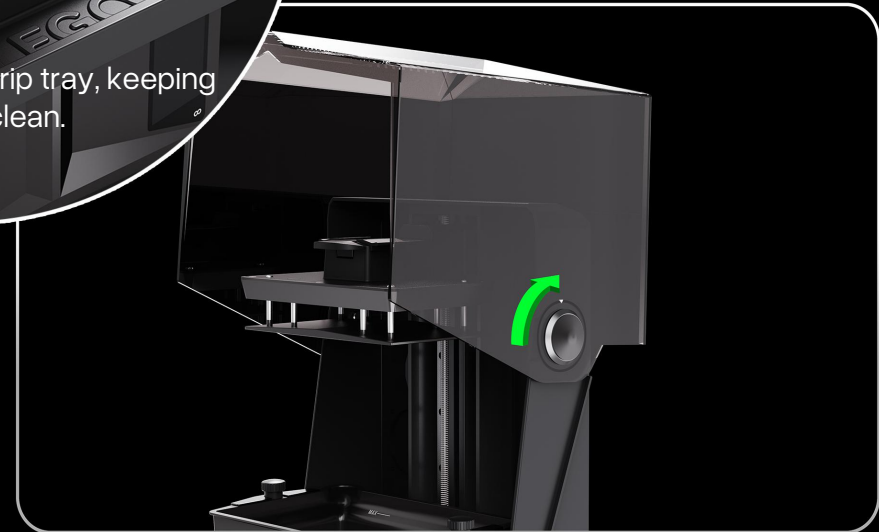
Features a resin drip tray, keeping
your workspace clean.



Dual pour spouts
design makes
pouring resin a
breeze



Flip-top design





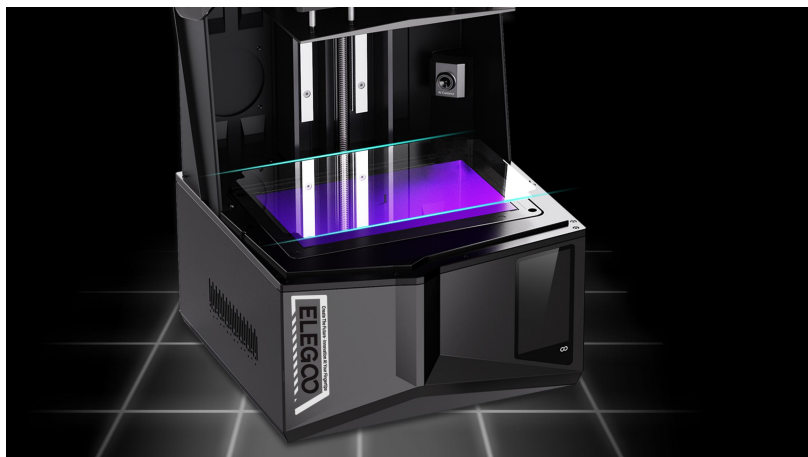
Linux System Solution

Built-in 8G memory for more stable file transfer, faster operation and no delay in printing and loading images



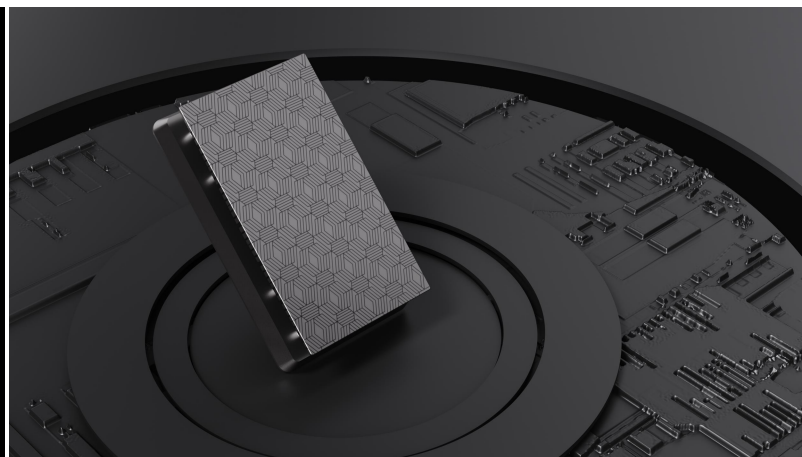
Compatible With Large Air Purifier Like MARS MATE

Offers you a clean working space with fresh air.



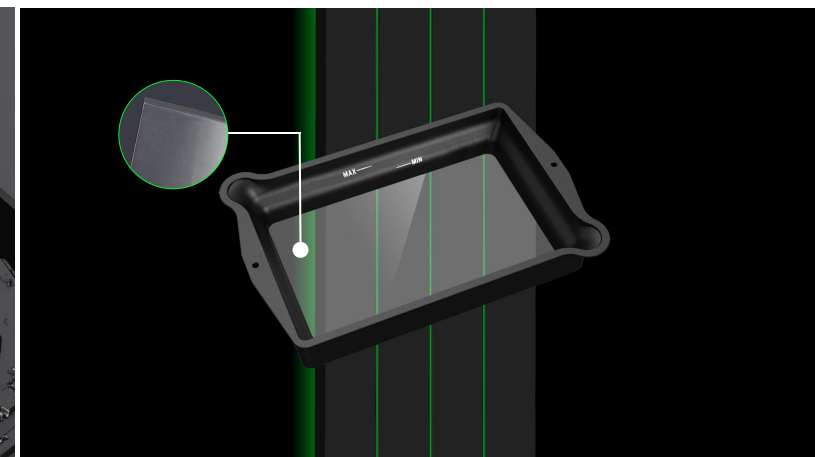
Tempered Glass LCD Protector

The LCD screen features a shatter-resistant, scratch-resistant protector made from 9H tempered glass, effectively extending its lifespan. This protector is easy to clean, won't chip at the edges, and keeps liquids like resin from causing damage, ensuring your peace of mind.



Laser-Engraved Build Plate

The laser-engraved build plate delivers strong adhesion, enhancing model stability and extending its lifespan while improving print success rates.



PFA Release Film

The PFA release film enhances release efficiency for faster printing, achieving speeds up to 150 mm/h.

Saturn 4 Ultra 16K Specification

ELEGOO

System: EL3D-4.0

Control Panel: 4-inch Capacitive Touch Screen

Slicer: CHITUBOX

Interface: USB Port & Wi-Fi

AI Camera: 1920 x 1080

Technology: MSLA

Light Source: COB (Wavelength 405 nm)

XY Resolution: 14 x 19 μm (15120 x 6230)

Z-Axis Precision: 0.02 mm

Layer Thickness: 0.01 – 0.2 mm

Printing Speed (Max): 150 mm/h

Power Requirement: 100–240 V; 50/60 Hz; 24 V, 6 A

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

Build Volume: 211.68 mm (L) x 118.37 mm (W) x 220 mm (H)

Package Dimension: 650 mm (L) x 420 mm (W) x 430 mm (H)

Net Weight: 16.1 kg

Gross Weight: 18.7 kg



Diverse Uses in 3D Printing



Prototype for R&D



Dental



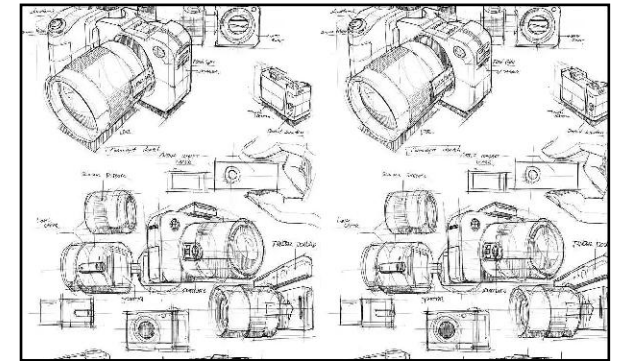
Education



Collectible



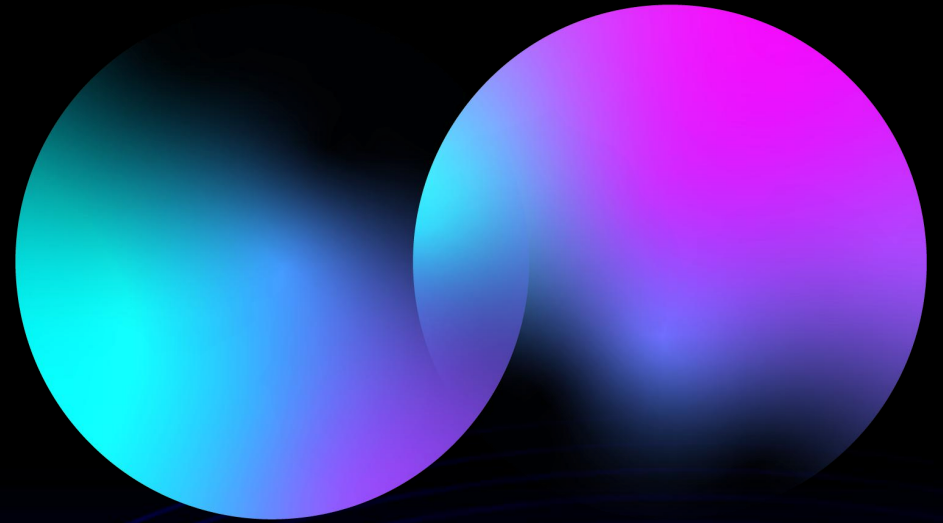
Jewellery



Design

ELEGOO

THANKS



www.elegoo.com