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Intelligent Fast 3D Printer

Saturn 4 Ultra 16K

model by loot.studios

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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

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

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/cm² to 5 mW/cm², 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/cm² represents the intensity of light energy received per unit area (per square centimeter) on the surface of an object, which is five milliwatts.

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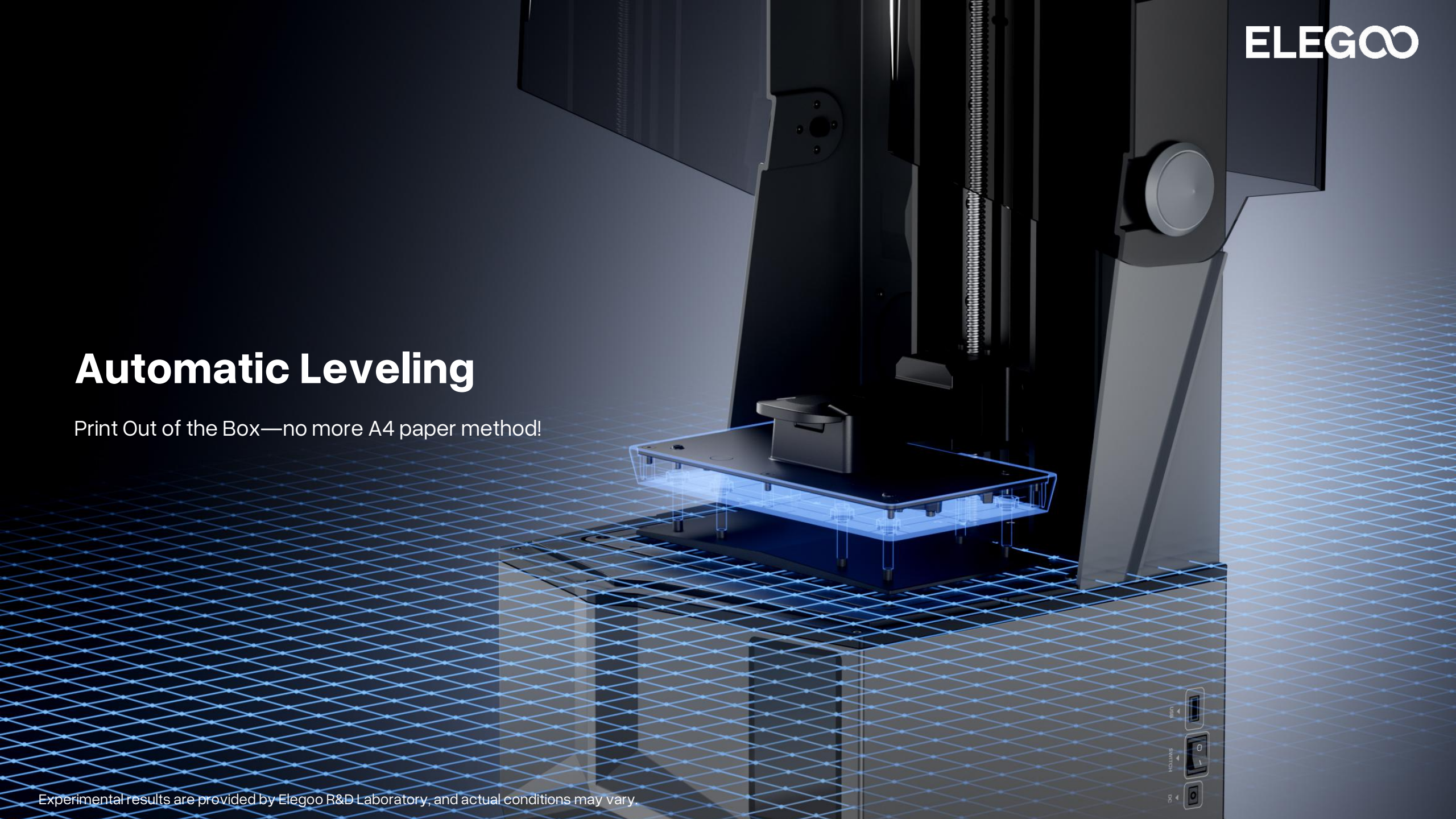
16K Screen Beyond All Bounds

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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Automatic Leveling
Print Out of the Box—no more A4 paper method!
Experimental results are provided by Elegoo R&D Laboratory, and actual conditions may vary.

Fresnel Lens

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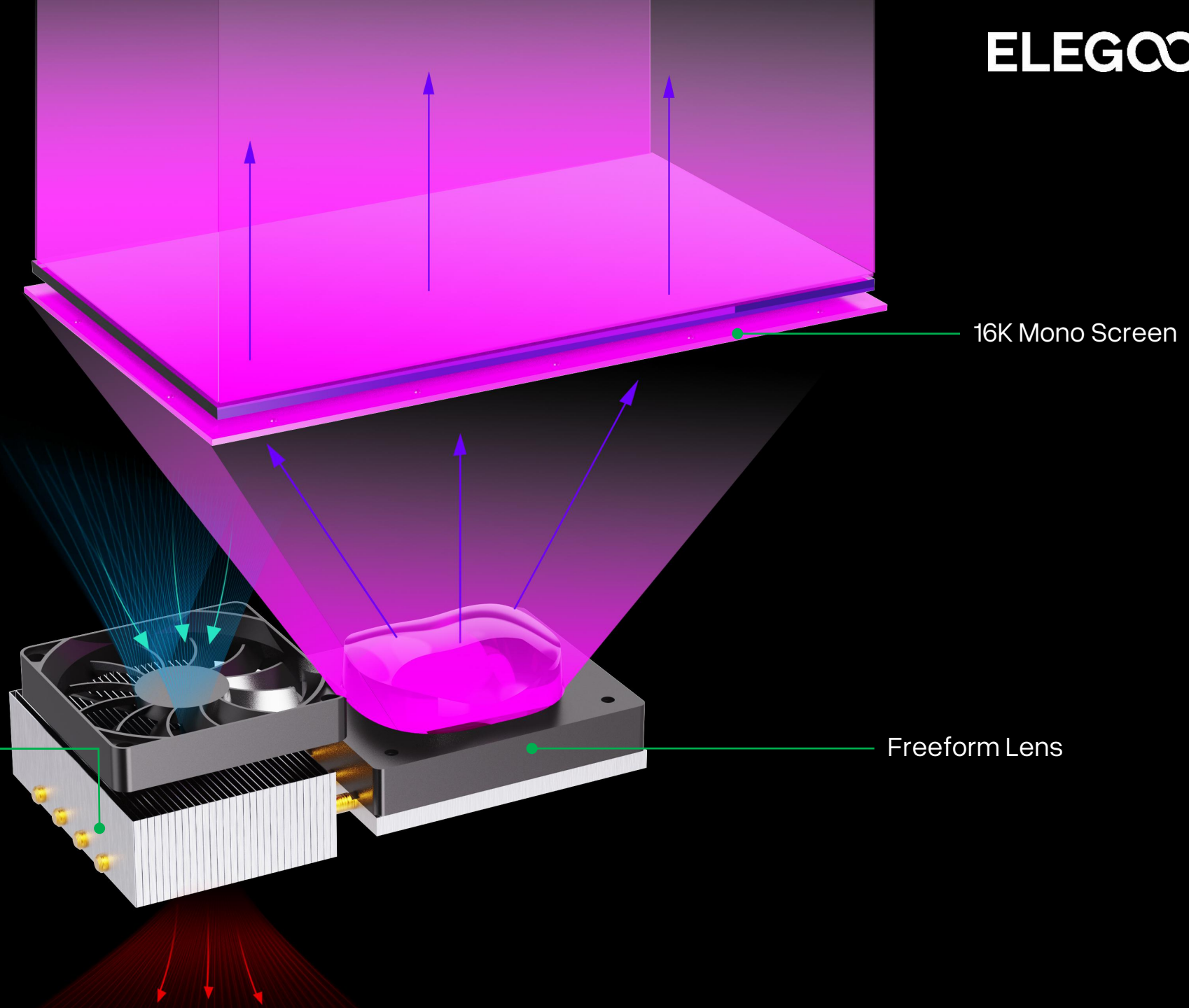
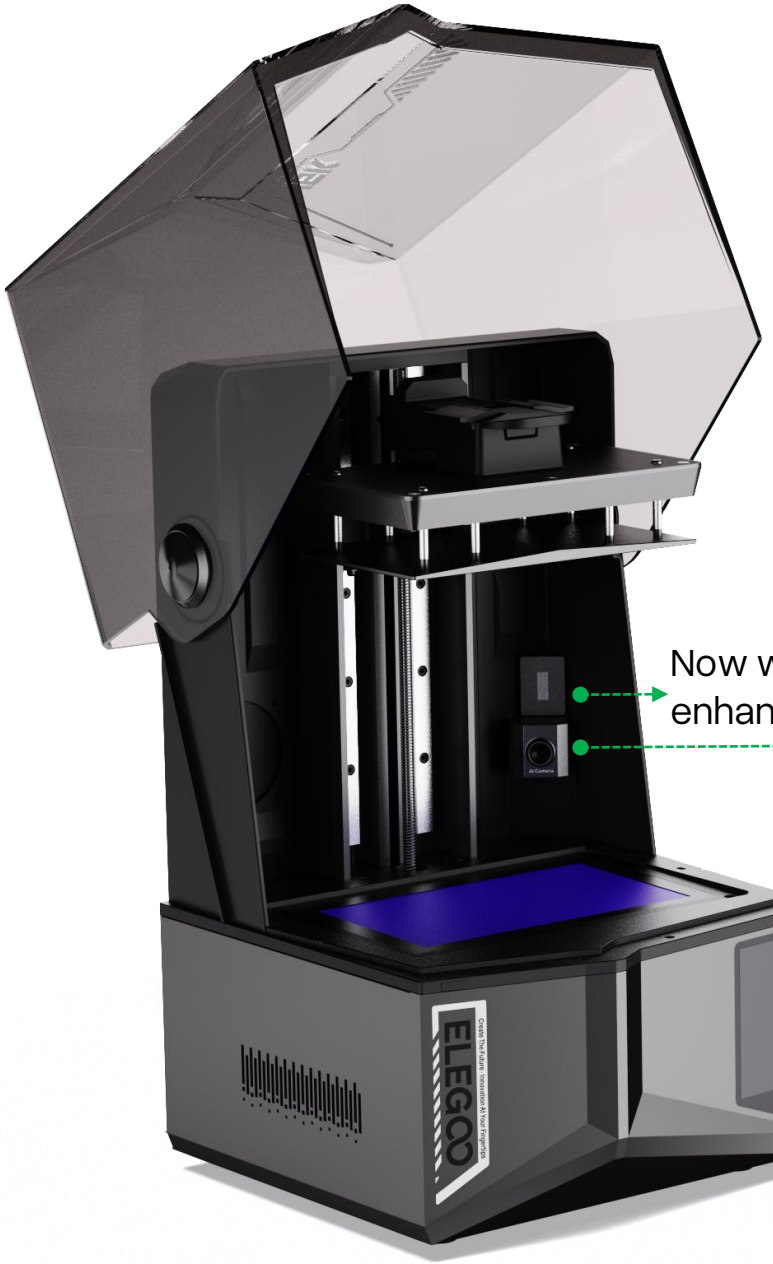
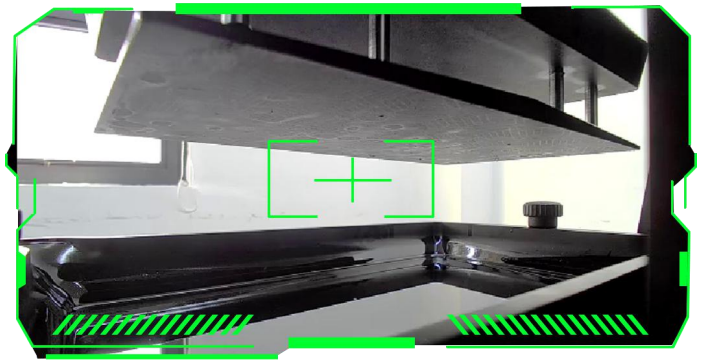


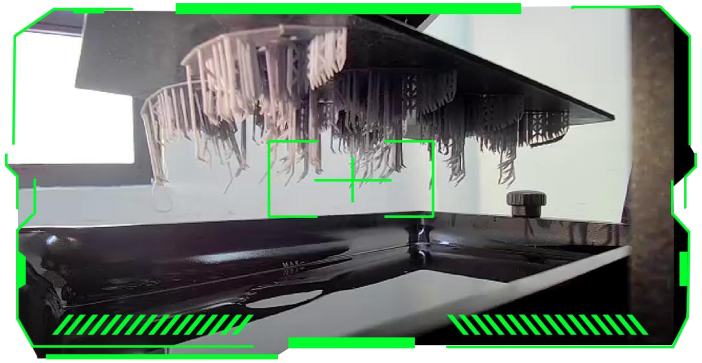


AI Camera Detection

1. Empty Build Plate Detection

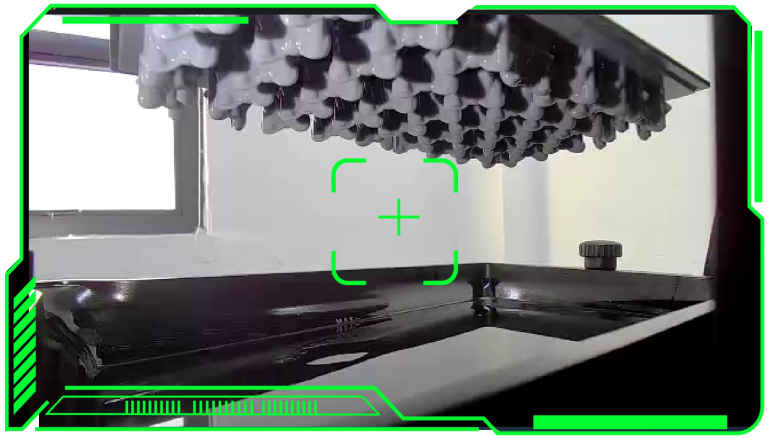


2. Warping Detection



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.

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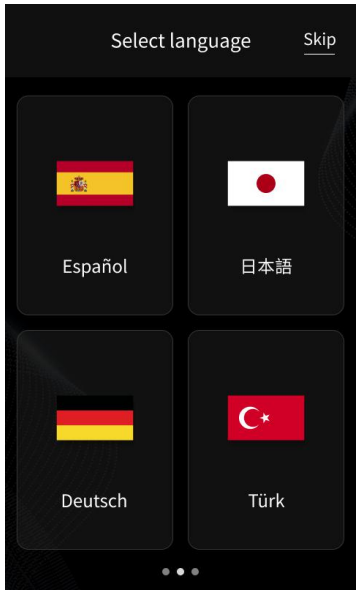
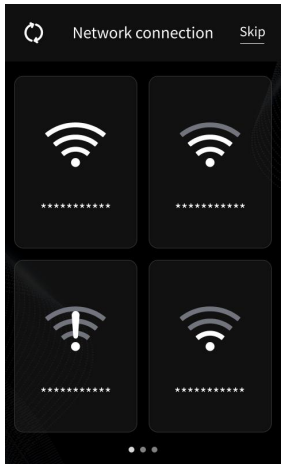
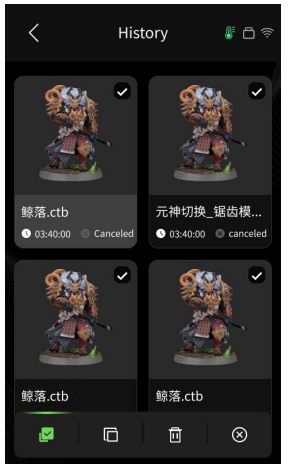
Multiple Languages Brand-New UI Design

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.

Saturn 4 Ultra 16K Specification

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