




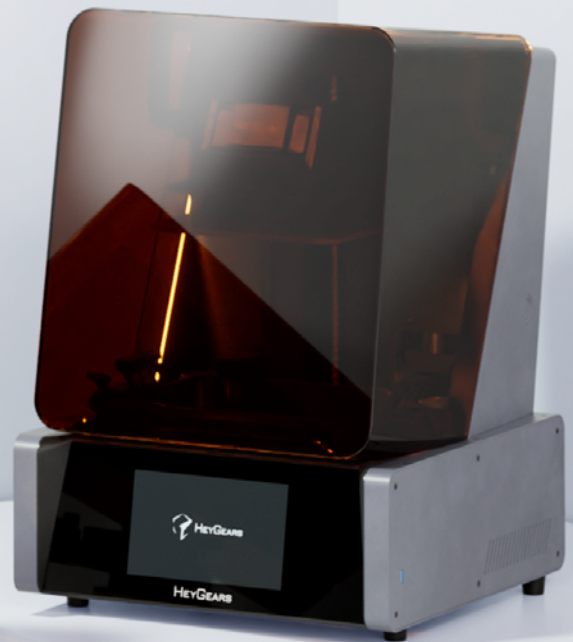
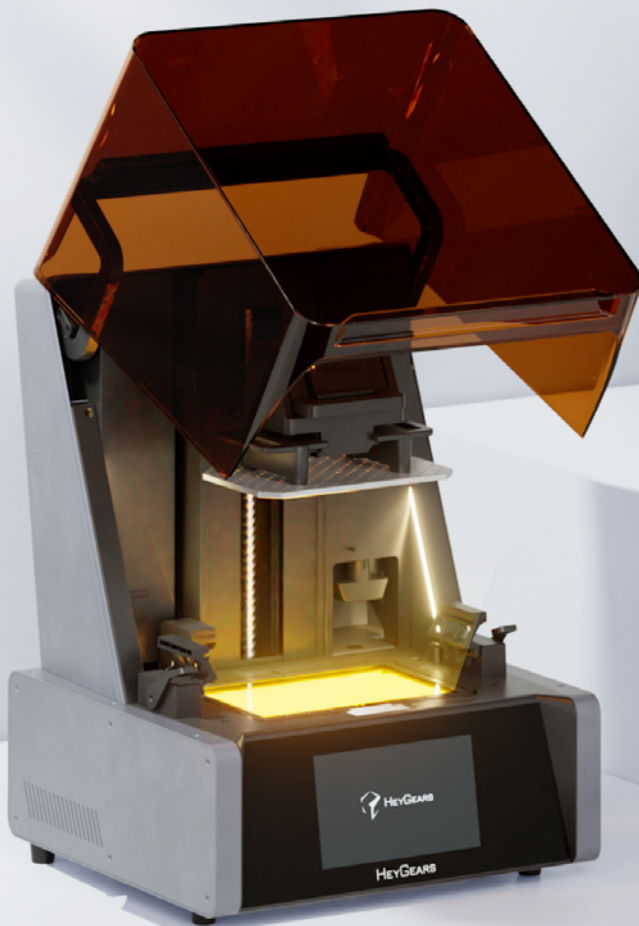
# ULTRACRAFT Reflex **Turbo**

New Upgraded Screen  
Your One-stop Production Platform

 Enhanced  
Amber Screen

 385+ nm UV  
Light Source

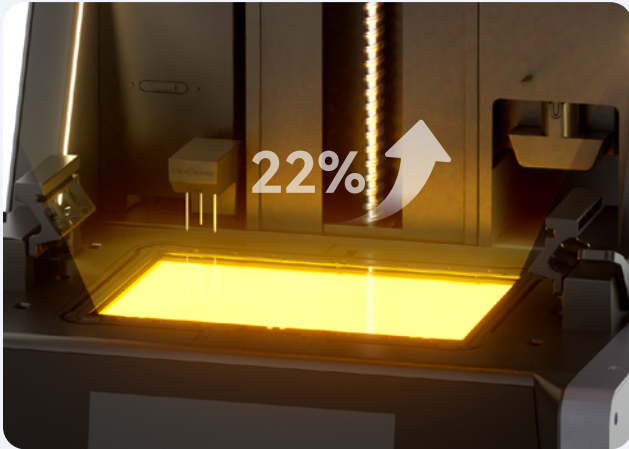
 C5 Grade  
Z-axis Module



# 01 Professional Hardware

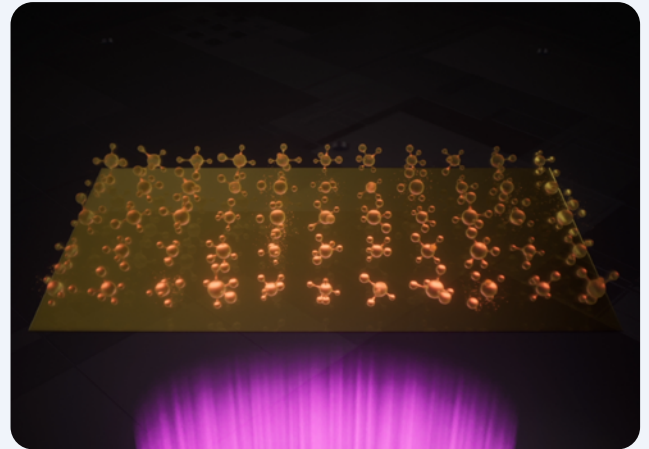
## 22% Increase in Contrast Ratio\*

- ◆ The Amber Screen features dyed polarizer films that allow for better control of light transmittance, resulting in a 22% enhancement in contrast ratio compared to the previous generation.



## 2.5X Longer Screen Lifespan\*

- ◆ The dyed polarizer film utilizes dye macromolecules with excellent UV resistance, which reduces contrast decay and enhances light projection reliability, ultimately extending the screen's lifespan.

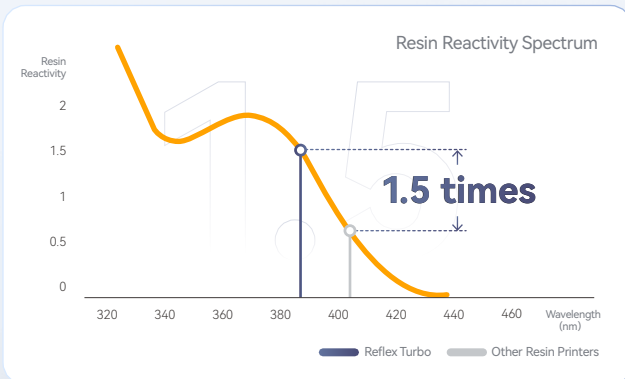


\*Data sourced from HeyGears Lab, compared to the previous generation

## 385+ nm UV Light Source

- ◆ 1.5 times more powerful curing than that of other resin 3D printers\*

Enables compatibility with high-performance resins such as ABS-like, polycarbonate-like, and rubber-like resins.



\*Data sourced from HeyGears Lab

## Reliable C5 Grade Z-axis Module

- ◆ High repeat positioning accuracy ensures layer positioning errors are no more than 2  $\mu\text{m}$ .\*



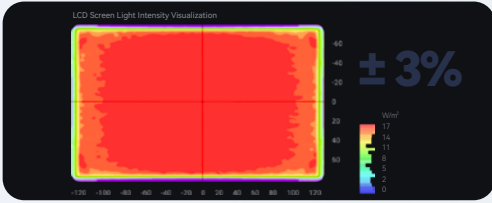
\*Data sourced from HeyGears Lab, 96% of repositioning errors are within 1  $\mu\text{m}$ , and 99.9% of the errors are no more than 2  $\mu\text{m}$



# 02

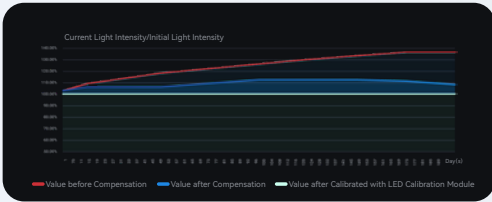
## 93%\* Production Consistency

Reliable printing quality aids product development and final commercial production.



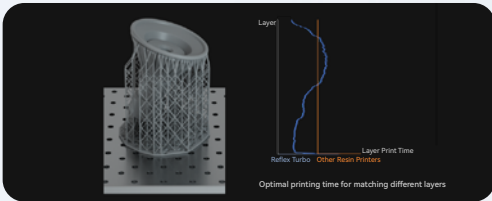
### High Print Consistency Across the Build Platform

The LCD screen is pre-calibrated to ensure light intensity variations are within 3%\*\* for consistent printing results across the build plate.



### Long-lasting Printing Consistency During Printer Lifetime

The Reflex Turbo features automatic light intensity compensation by testing and recording light source aging data, for consistent printing results throughout the printer's lifespan.



### Dynamic Motion Algorithm 3.0

This algorithm evaluates the printing difficulty for each layer based on various factors, including cross-sections, part spacing, and quantity, and selects the appropriate parameter set from 18 adapted motion control options.

\*Data is sourced from the yield rate of HeyGears's own factory data  
\*\*Data sourced from HeyGears Lab

# 03

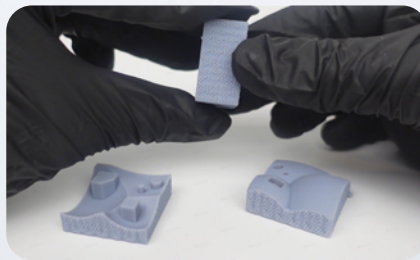
## A High-quality 3D Printer

Clear surface details, high assembly accuracy, and high consistency



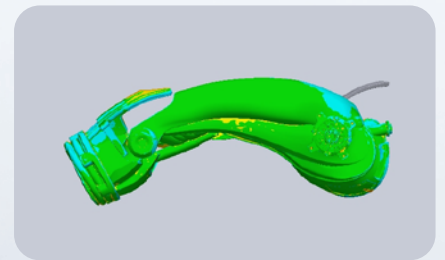
**0.136 mm\***  
Smallest Pillar Diameter

\*Test Using UltraPrint PAP10 High-Precision Production Resin



**Precise Assembly\***  
for Multi-Part Models

\*Test Using UltraPrint PARP10 Rapid Prototyping Modeling Resin



**90.6%\***  
Detail Restoration

When comparing 3D printed models to their digital designs, 90.6% exhibit a surface tolerance of within 0.05 mm.

\*Data sourced from HeyGears Lab



# 04

## One Click to Pre-process

Professional level results, minimal effort.

Ready to Print within **10 minutes\***

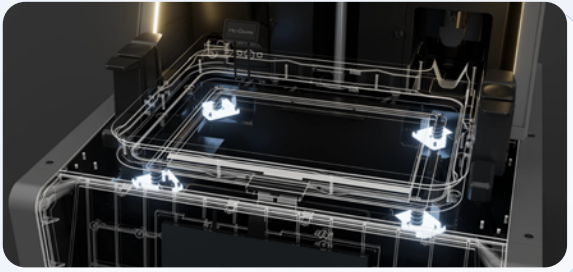
Learning Time Less than **60 minutes**



\*Data sourced from HeyGears Lab

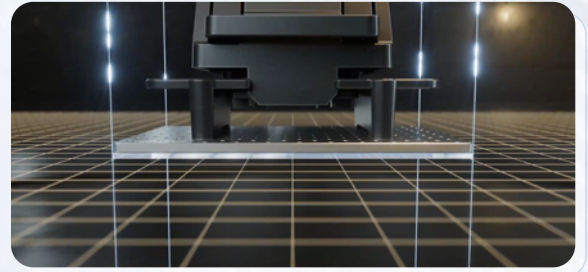
# 05

## Automated Printing Assistance



### High-sensitivity Residue Detection

Force sensors with a sensitivity of 0.1 N can detect resin residue as small as 0.2 mm and can auto-stop upon detection or print failure.



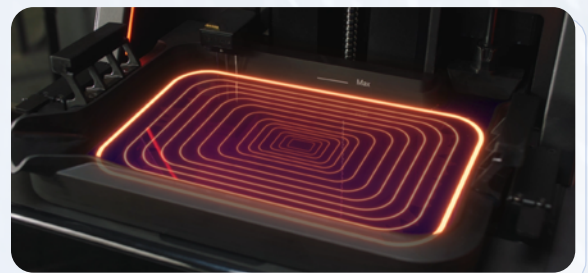
### Floating Screen Auto Leveling

A floating screen system with a deviation of 0.15° eliminates gaps of up to 240 µm for automatic leveling.



### Automatic Resin Refill

Resin quantity detection with an accuracy of within 5 g, and automatic resin refill before and during printing.



### Automatic Resin Heating

The heated resin tray elevates resin temperature from 50 °F (10 °C) to an optimal 73 °F (22 °C) in 20 minutes, while auto heating maintains this temperature throughout the printing process for optimal results.

\*Data sourced from HeyGears Lab

# 06

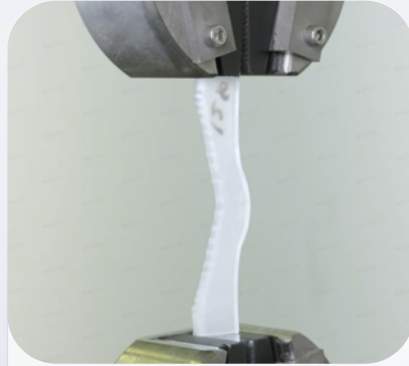
## Advanced Material Options

The UltraCraft Reflex Turbo offers **1.5 times** stronger curing than most resin 3D printers\*, thanks to its unique **385+ nm** UV light source, allowing for advanced materials and enhanced print performance.



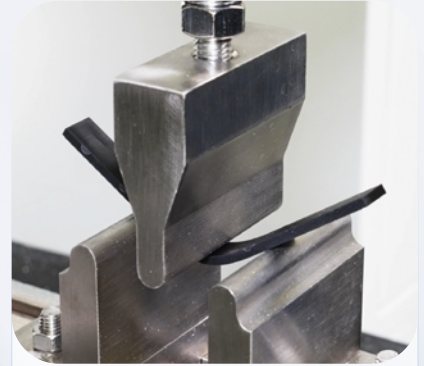
**88% Light Transmittance**

UltraPrint PAT10  
Transparent Modeling Resin



**Tear Strength 68 N/mm**

UltraPrint PAE20  
Elastic Production Resin

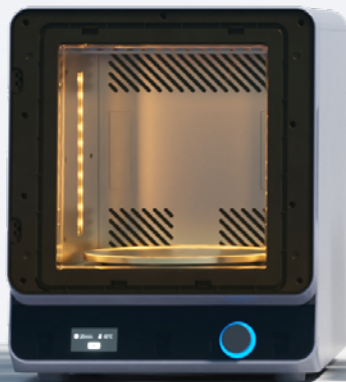


**109 MPa Flexural Strength**

UltraPrint PAU20  
General Purpose Tooling Resin

# 07

## A Comprehensive Selection of Compatible Accessories



ULTRACRAFT  
Cure



ULTRACRAFT  
Wash



ULTRACRAFT  
Pulsing Release Module



\*Compared to resin 3D printers using 405 nm UV curing.


# Reflex Turbo Specifications


3D Printing Technology	LCD (MSLA)
Screen	9.25-inch Amber Screen
Build Volume	192x121x220 mm
XY Native Pixel	33 $\mu$ m
Accuracy	$\pm$ 16 $\mu$ m
Layer Thickness	25–150 $\mu$ m
Connectivity	USB/WIFI/LAN
Size	400x420x572 mm
Weight	25 kg
Rated Power	350 W
Voltage	100–240 V~50/60 Hz
Language	English, Simplified Chinese, Japanese


## HEYGEARS


HeyGears was founded in 2015 as an innovation-driven company, devoted to providing digital manufacturing solutions in various industries. The company bases its core competencies in 3D printing, software development, materials, and big-data handling. We have a global presence with teams across North America, Latin America, Europe, Middle East, and Asia Pacific.

HeyGears believes in a product development process rooted deeply into vertical applications, and our vision goes beyond just 3D printing technology. We strive to create vertically integrated solutions through the solid establishment of hardware, software, material, and service platforms, delivering our goal to bring advanced technology into daily life.

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