

ULTRACRAFT Reflex

Shape Your Ideas with a One-stop Production Platform

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.

HeyGears

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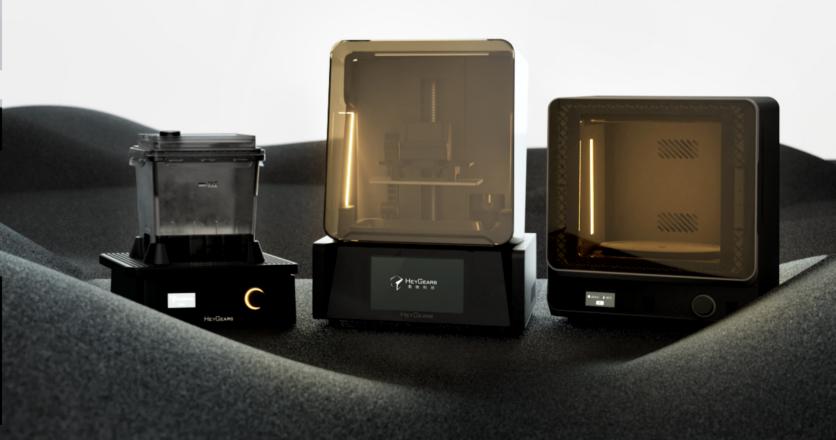








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Reflex

Designed for a worry-free 3D printing process. Shape your ideas with a printer powered by AI algorithms and automated features to easily achieve commercial grade final results.

Material Engineered to Exceed Expectations Worry-free One-stop Production Platform & Easy Operation Delivering Injection Maximized End to End Intelligent & Streamlined Production Molded-like Final Results Printing Success

Clean And Efficient Washing

Support & Services

Enhanced Curing for Maximized Results

Specifications

01 ONE-STOP PRODUCTION PLATFORM

The UltraCraft Reflex Combo is a complete results orientated 3D printing

system that interconnects printing, washing and curing with an extensive

material library to make creation simple.

© Easy

Easy to Use

An intelligent process from print, to wash, to cure, using interconnected print strategies, makes it easy bring your ideas to reality.



High-quality Printed Results

Get the results you want through convenient user focused software, industrial grade hardware and high performance materials.



3D printer with an easy and automated setup with integrated TrueUV technology to get the best results for your print.

Build Volume: 192 x 121 x 220 mm (7.55 x 4.76 x 8.66 in)

LCD Screen: 5760 x 3600 (6K) XY Native Pixel: 33 μm Layer Height: 25–150 μm

Print Speed: 27 mm/h (with a layer height of 50 μm)

2 ULTRACRAFT Wash

Unique vibration based washing for deep cleaning while minimizing physical contact with the resin.

Washing Volume: 198 x 123 x 150 mm (7.79 x 4.84 x 5.9 in)

Washing Agent: Ethanol (≥95%)

Washing Time: ≤4 min

3 ULTRACRAFT Cure

Dual wavelength curing for enhanced strength and long term stability.

Curing Volume: 198 x 124 x 220 mm (7.79 x 4.88 x 8.66 in)

Curing Time: ≤60 min

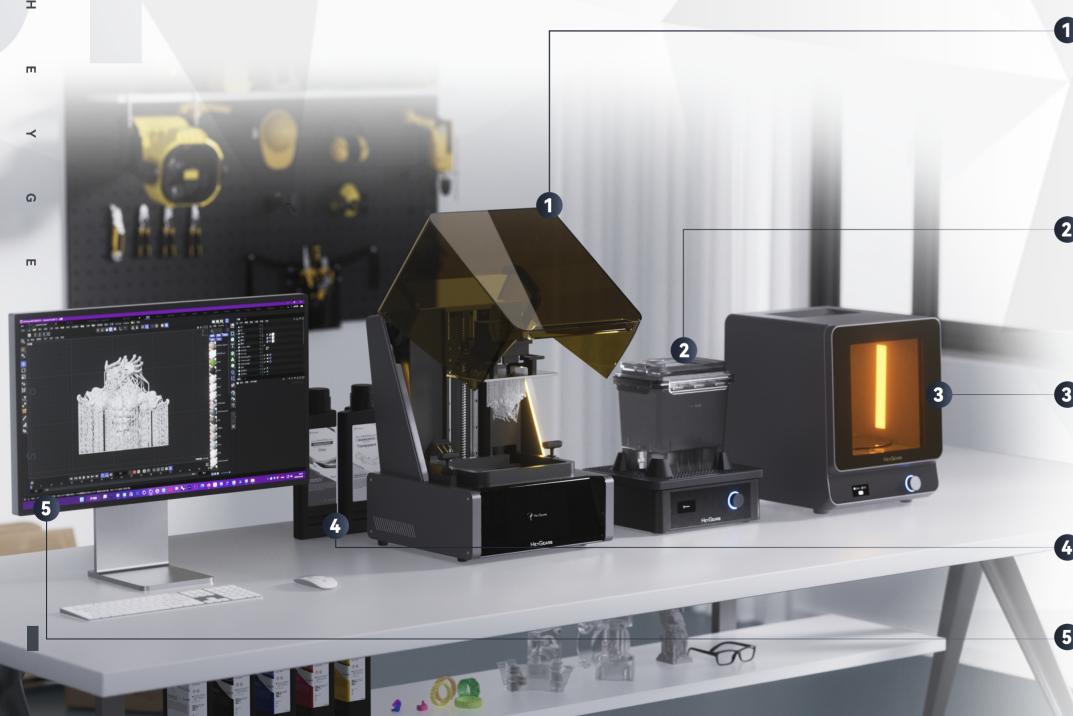
Dimensions: 370 x 387 x 456 mm (14.56 x 15.23 x 17.95 in)

4 ULTRAPRINT

Materials designed to meet the performance needs of multiple usage scenarios including professional, creative, and commercial projects.

5 Blueprint

Intelligent pre-processing and print management tool for all of your 3D printing needs.



Precise & accurate, from prototyping to final product. Achieve results with 90.6% restoration accuracy.

- Next-level Surface Quality
- Reliable & Consistent Productivity

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Industrial-grade Hardware

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Precise Z-axis Ball Screw

- Smooth movement with low resistance
- Repeated position accuracy within ± 0.05 mm

TrueUV Light Source

- High-energy UV wavelength light
- Higher polymer cross linking rate*
- Unique customized lens for balanced light distribution

6K Screen

- XY Native Pixel Resolution: 33 μm
- Size: 198 × 124 mm
- Resolution: 5760 × 3600



Algorithm Enhanced Results

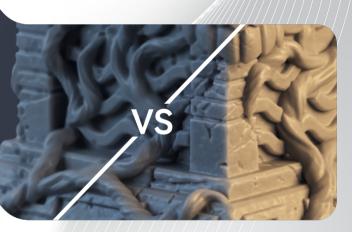
Three-dimensional Anti-aliasing

Print layer image & z-axis anti-aliasing for smoother print texture



WDR fusion+

Multi-layer analysis and compensation reduces peeling force. Balanced exposure maintains model details and increase's printing success.



PICK Recognition

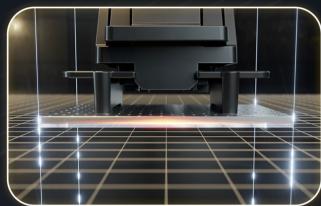
PICK identifies the specific areas of each layer that belong to the print model or support structures. It optimizes the exposure levels for stronger, thinner supports and easier removal.

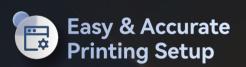


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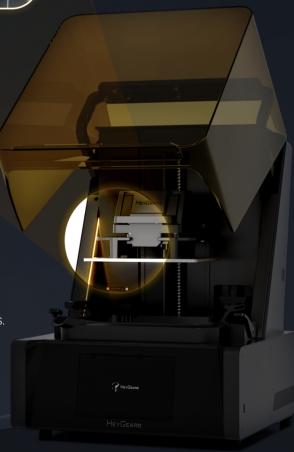
03 WORRY-FREE & EASY OPERATION

Ready to print within minutes.





- Auto-zeroing: Start from the right position.
- Intelligent Assisted Leveling:
 Get precise feedback for correct adjustments.





Real-time monitoring the printing process and notifications



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05 MATERIALS ENGINEERED TO EXCEED EXPECTATIONS

HeyGears self-developed UltraPrint 3D printing resins are designed to meet high performance needs across multiple usage scenarios and print types.



Material Toughness Test

6 Month Aging Test

ULTRAPRINT-MODELING PAU10

ABS-like long lasting strength, toughness and flexibility



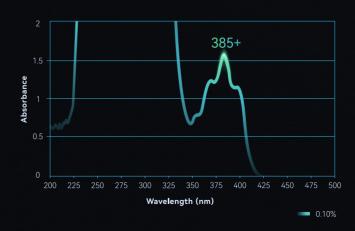
Model printed using other transparent resin

Model printed using
HeyGears PAT10 (transparent resin)



ULTRAPRINT-DESIGN CMYK

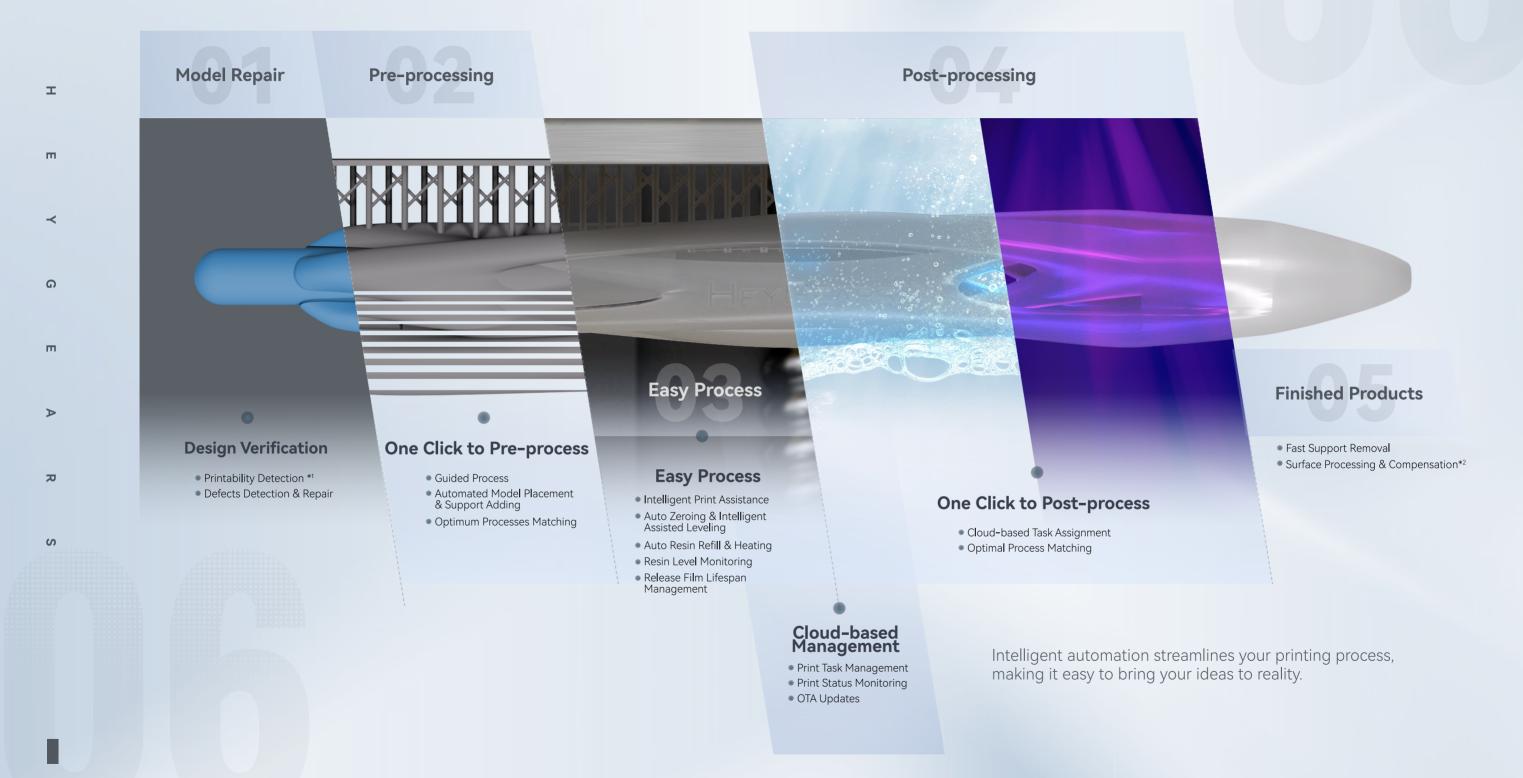
Mixable materials for a full color spectrum



TRUE UV

UltraPrint resins are formulated to maximize their material properties when used with the TrueUV light source of the UltraCraft Reflex. The high energy UV wavelengths cure the resin material more effectively due to greater energy transmission.

06 END-to-END INTELLIGENT AND STREAMLINED PRODUCTION



 $^{^{*1}}$ Detects the printability of structures such as inverse fillet and thin walls. *2 This feature will be available after you purchase on HeyGears Blueprint.

07 CLEAN AND EFFICIENT WASHING

15% More Cleaning Efficiency*1

Every liter of cleaning agent can wash up to 0.4m² of printed surface area



ULTRACRAFT Wash

1.5 Times More Effective Washing*2

Unique vibration based deep cleaning

Linked with L3 Printing Strategy

Linked with L3 printing strategy for auto-adjusted timing settings 0 time adjustments needed



Minimal Contact with Resin

No need to touch unwashed prints, one step easy transfer of used cleaning agent to second wash box.



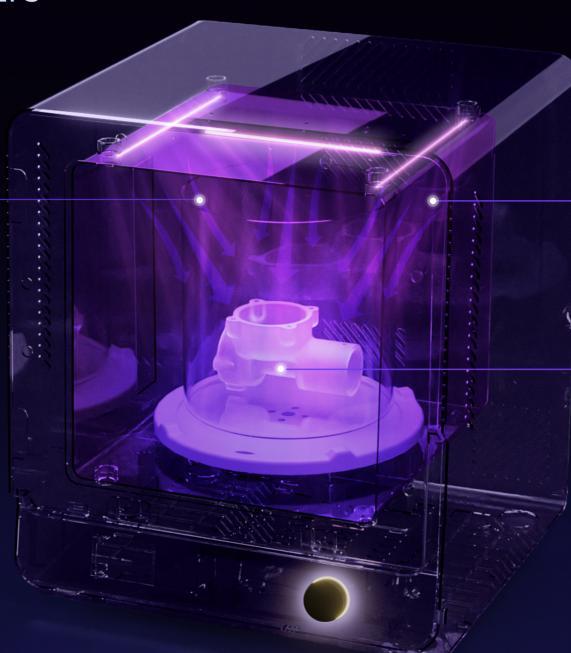
08 ENHANCED CURING FOR MAXIMIZED RESULTS

Fully Cured From Every Angle

- 360° even curing across the entire cabinet
- Ensures stable precision and surface details

Extra Heating Function

Speed up surface varnishing and paint finishing



Dual UV Wavelength Final Curing

- 365 nm for model surface curing
- 405 nm for model internal curing

Two Curing Types, Choose Based On Your Needs

- High Performance Cure: for greater strength
- Rapid Cure: for greater clarity of details

Auto-calculated Curing

Linked with L3 printing strategy for auto-adjusted timing and temperature settings

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ULTRACRAFT CURE SPECS				
Curing Time	≤60 min			
Curing Volume	198 x 124 x 220 mm 7.79 x 4.88 x 8.66 in			
UV Wavelength	405 + 365 nm			
Max Curing Temperature	60-80 ℃			
Connectivity	USB Drive; Wi-Fi			
Dimensions	370 x 387 x 456 mm 14.56 x 15.23 x 17.95 in			
Curing Time	12 kg / 26.46 lb			
Curing Volume	100-120 V AC; 200-240 V AC			
UV Wavelength	350 W			
UV Wavelength Max Curing Temperature Connectivity Dimensions Curing Time Curing Volume	7.79 x 4.88 x 8.66 in 405 + 365 nm 60-80 °C USB Drive; Wi-Fi 370 x 387 x 456 mm 14.56 x 15.23 x 17.95 in 12 kg / 26.46 lb 100-120 V AC; 200-240 V AC			

UI Language English; Chinese



ULTRACRAFT WASH SPECS

Washing Volume	198 x 123 x 150 mm 7.79 x 4.84 x 5.9 in
Washing Agent	Ethanol (≥95%)
Washing Time	≤4 min
Connectivity	USB Drive; Wi-Fi
Dimensions	351 x 272 x 168 mm 13.8 x 10.7 x 6.61 in
Weight	8 kg / 17.6 lb
Voltage	100-240 V AC
Rated Power	80 W
UI Language	English; Chinese

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09 SUPPORT & SERVICES

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Equipment Usage Guidance

Quick Installation Guide Technical Customer Sevice



Help Center

Technical Support
User Community



OTA Updates

Online updates software, firmware, and processes which improve the print quality and speed and enable compatibility with new print materials.



1-yearWarranty Period



Fast ResponseCustomer Service



10 SPECIFICATIONS

ULTRACRAFT REFLEX SPECS

Printing Technology LCD

Build Volume 192 x 121 x 220 mm 7.22 x 4.76 x 8.66 in

Build Height 220 mm / 8.66 in

XY Native Pixel 33 μm

Layer Height 25 – 150 μm

Accuracy ±16 μm

Print Speed 27 mm/h (with a layer height of 50 μ m)

Dimensions 400 x 420 x 573 mm / 15.7 x 16.5 x 22.5 in

Connectivity USB Drive; Wi-Fi; Ethernet

Voltage 100-240 V AC, 50/60 Hz

Rated Power 350 W

Ul Language English; Chinese