

ULTRACRAFT Reflex RSTurbo New Upgraded Screen Precision Matched with Speed

[6] Enhanced Amber Screen 566:1 Contrast Ratio

[♣] C5 Grade Z-axis Module Movement Error within ±2µm

[🟿] Dynamic Motion Algorithm 3.0

33%* Increase in Print Speed



Printing Accuracy and Reliability

*Data sourced from HeyGears Lab, utilizing PAWW10 water-washablee resin, compared to conventional motion control 3D printing

Dyed Polarizer Film

Optimized Amber Screen

High Contrast Ratio of 566:1*

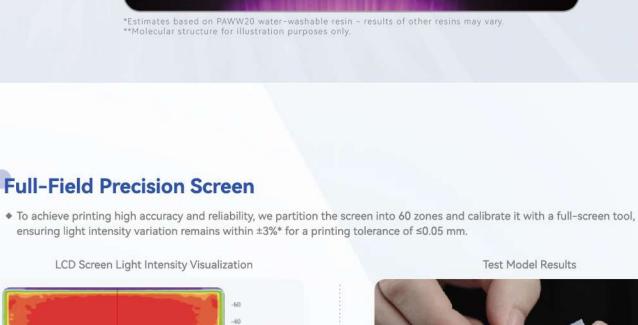
The exact speed increase may vary based on model.



Data sourced from HeyGears Lab, utilizing PARP10 Orange Clay Resin for printing. Printing results may vary per model. Over 1 Million Layers 3D Printing Capability

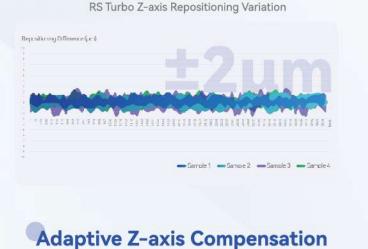
Other Printers with a Low Contrast Scre RS Turbo *Data sourced from HeyGears Lab, utilizing PAP10 Precise Detail Resin for printing. Printing results may vary per model. . The dyed polarizer film employs dye macromolecules with excellent UV resistance and heat stability. This minimizes degradation, leading to reduced contrast decay and improved light projection reliability, ultimately extending the screen's lifespan.

Optical Film



Reliable C5 Grade Z-axis Module

High repeat positioning accuracy ensures layer positioning errors are no more than 2 μm*.



Tested with a 50 kg load across ten thousand runs.



RS Turbo

*Data sourced from HeyGears Lab

Test Model Results

After

Before



*Data sourced from HeyGears Lab.

**Printer frame flex within ±2 μm.

With high-speed water-washable resin PAWW10,

***Cools screen temperature by up to 10°C during printing.

the average printing speed for lattice models reaches 4.5 s/layer



C5 Z-axis Module

Single-Layer Dynamic Motion Control Utilizing a single-layer seven-segment motion control logic, The RS Turbo reads real-time data from the force sensors at a frequency of 80 times per second. Based on force values and their rate of

High-rigidity Printer Frame**

™ Dedicated Screen Cooler***

Single-parameter Compensation

Dynamic Motion Algorithm 3.0 33% Increase in Print Speed*



*Data sourced from HeyGears Lab, utilizing PAWW10 water-washable resin, compared to conventional motion control 3D printing.
The exact speed increase may vary based on model.
**Model created by Great Grimoire.

Get Printing in Minutes

Ready to Print within 10 minutes* Learning Time Less than 60 minutes *Data sourced from HeyGears Lab

্রিছ্র Floating Screen Auto Leveling

(Automatic Resin Refill

Automatic resin refill before and during printing, no

Suitable for Drilling

86 MPa Flexural Modulus

UltraPrint-Modeling PAU11

General Purpose Modeling Resin

*Data sourced from HeyGears Lab

ULTRACRAFT

Pulsing Release Module

· Wash

and Tapping

(ABS-like)

A floating screen system with a deviation of 0.15°

eliminates gaps of up to 240 µm for automatic leveling.

Automated Printing Assistance

[High-sensitivity Residue Detection

residue as small as 0.2 mm and can auto-stop upon

detection or print failure.

طاً Automatic Resin Heating

Excellent Fine

of 0.06 mm

Structure Printability

Smallest Convex Detail

UltraPrint-Production PAP10

High-precision Application Resin

*Test data for PAP10 Black color resin

A Complete Production System

The optional RS heated resin tank uses an integrated

Force sensors with a sensitivity of 0.1 N can detect resin



Impressively

46% Elongation at Break

UltraPrint-Production PAF10

Light Intensity

LCD (MSLA)

 $29.7 \mu m$

±15 µm

405 nm

20 kg

180 W

30-100 μm

222*122*228 mm

380*360*584 mm

10.3-inch 8K Amber Screen

Calibration Tool

ULTRACRAFT

Reflex RSTurbo

Flexible Production Resin

Bendable

(PVC-like)

ULTRACRAFT + Cure

Reflex R5 Turbo Specifications

3D Printing Technology

Screen

Accuracy

Size

Weight

Rated Power

Build Volume

XY Native Pixel

Layer Thickness

Optical Wavelength

RS Heated &

Pulsing Release Resin Tank



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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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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.

