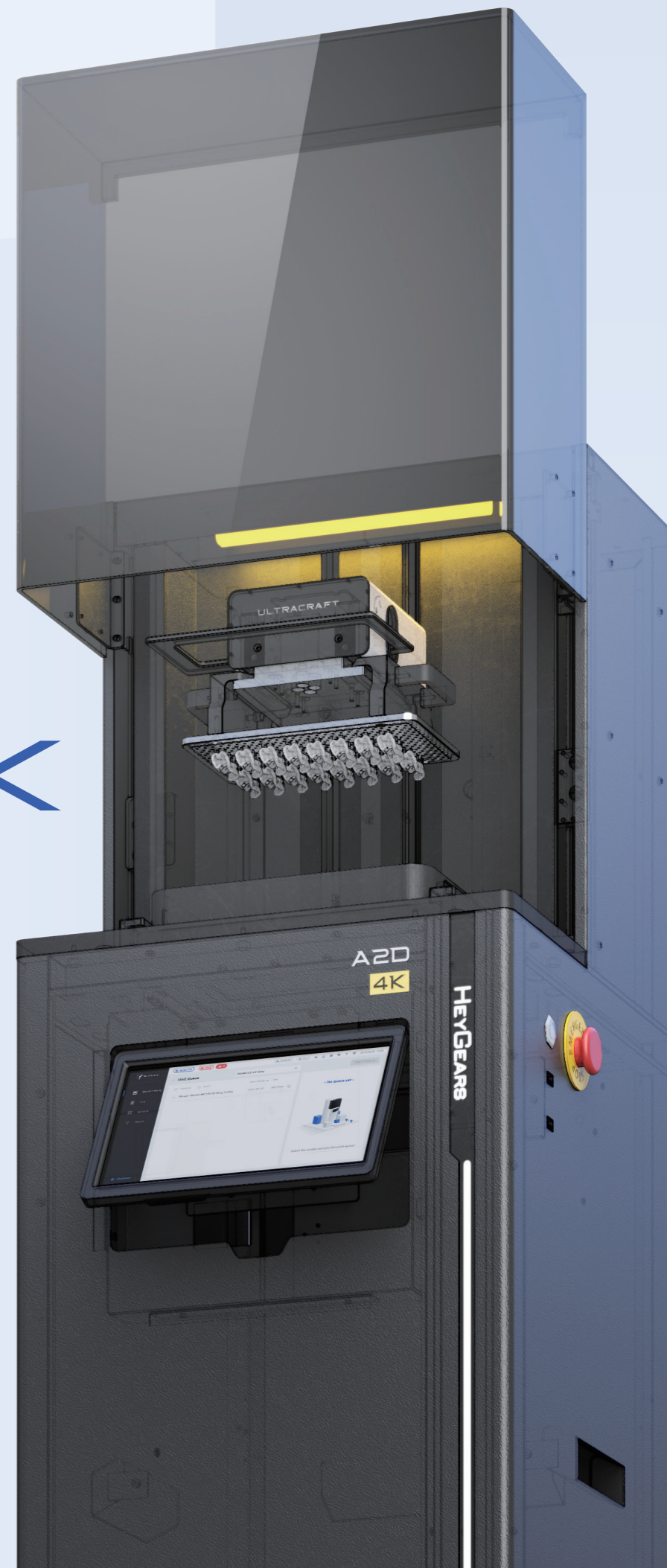




ULTRACRAFT A2D 4K

Quality and Efficiency Combined


High Precision 3D Printer for Mass Production



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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Follow us @HeyGears

ULTRACRAFT A2D 4K

UltraCraft A2D 4K is a high-performance DLP 3D printer designed for digital dentistry applications, featuring high precision and mass production capabilities. It works with an automated production system, providing the optimal solution for dental labs to improve their printing results with efficiency.

01 Ultra-high Precision
Stable Printing Results

03 Detail Restoration
High Quality Printing

05 Automation
Continuous Production
without Limits

02 Advanced Applications
Bring Dental Production
to the Next Level

04 Balanced Quality & Efficiency
Rapid Mass Production

06 Integrated Connection
One-stop Complete
Production

07 Complete Dental Production
Covering A Variety of Applications

09 Specifications

08 Support for Digitalization

C O N T E N T S

01

Ultra-high Precision Stable Printing Results

±26.8 μm A New Level of Precision in 3D Printing

0.66"
DMD Chip

Unparalleled Performance

A **0.66" DMD** chip with a higher light utilization rate creates fine details, breaking the boundaries of traditional DLP printing.

4K
3840 x 2160p
Resolution

Quality Controlled Production

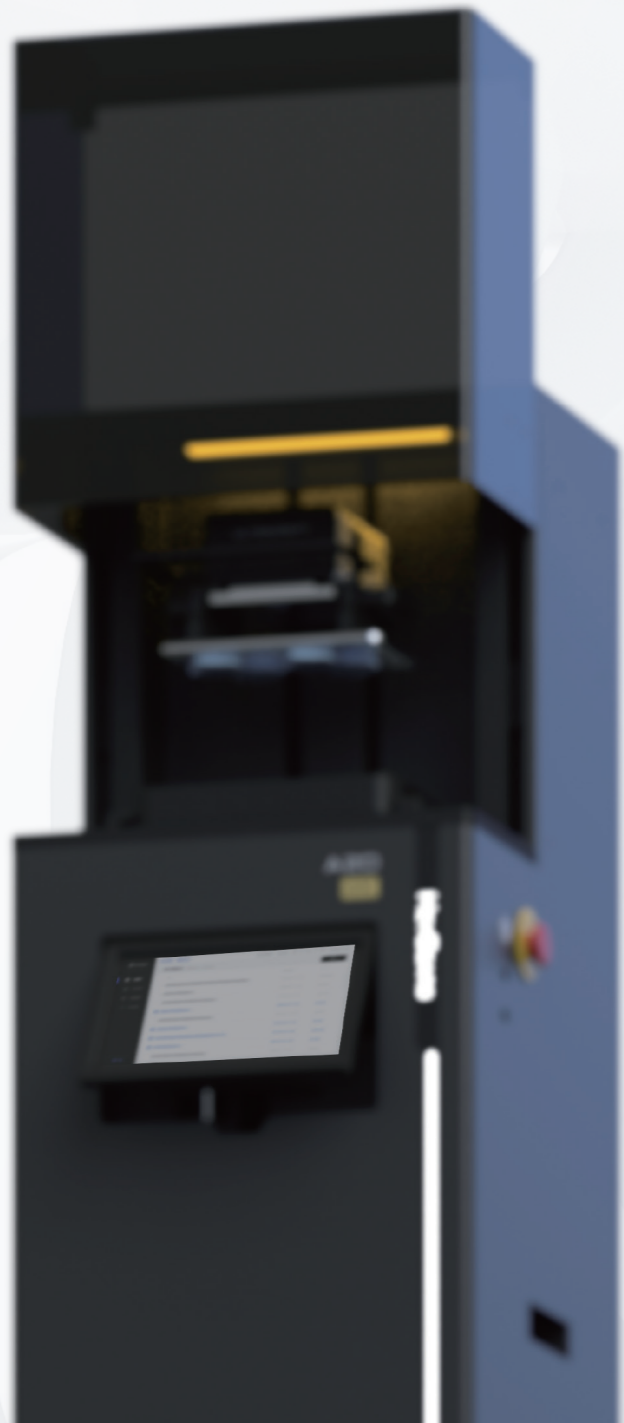
High-resolution **DLP XPR 4K** pixel technology allows for highly detailed final printed products that require minimal readjustments.

P-grade
Linear
Module

Excellent Printed Results

The p-grade linear module ensures industrial-grade precision through stable movement and positioning. This improves z-axis precision for **micron-level details** and high-quality results.





02 Advanced Applications Bring Dental Production to the Next Level

A2D 4K meets the needs of dental applications which require advanced precision such as dental implants, empowering higher quality digital dentistry.

Advanced Model

Implant Model



A2D 4K

A2D



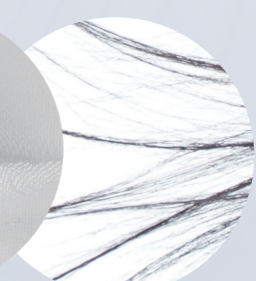
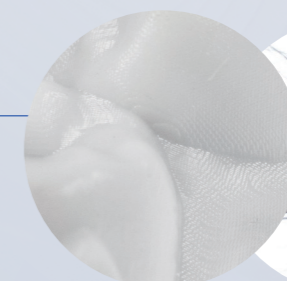
±26.8 μm

±37.5 μm

Ultra-precise Detail

Marginal Gap

Hair Strand



<100 μm

≈90 μm

03 Detail Restoration High Quality Printing

96% Restoration Accuracy*



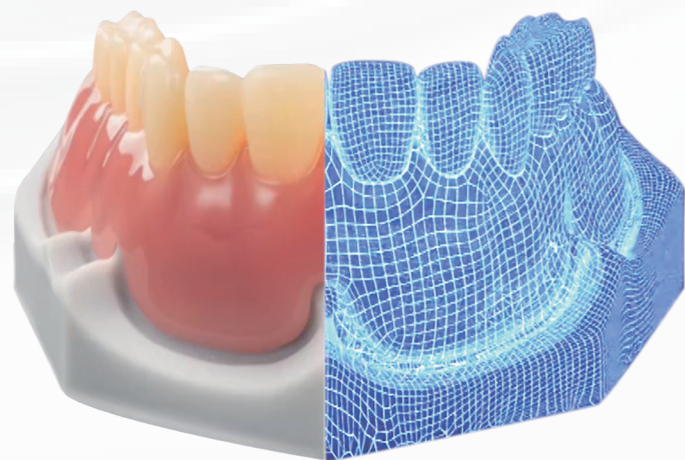
Application-driven Print Strategies



Easy Restoration of Complex Dental Cases & Design Models



Near Copy/Paste Level Results from Digital Model to Printed Product



Printed result is a 96% match with the original digital model

*Data from HeyGears Lab test results

Consistent & Customized Results

The printing results ensure the best diagnosis and treatment. The unique features of the application can be preferentially set, striking a balance between standardization and customization.



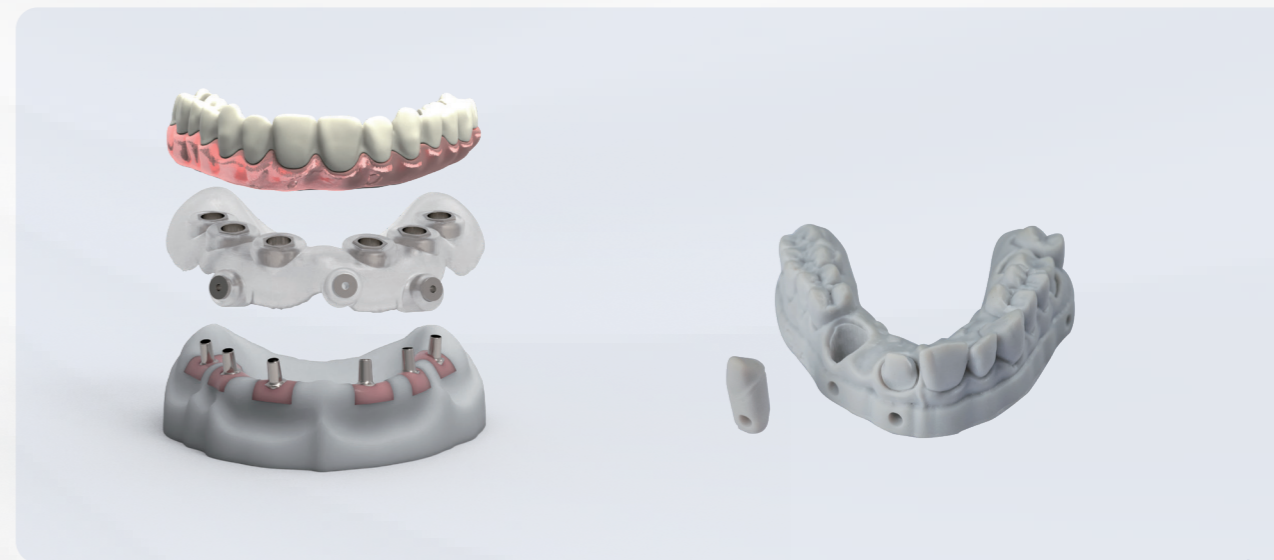
Pixel-level Calibration



AI Error Correction

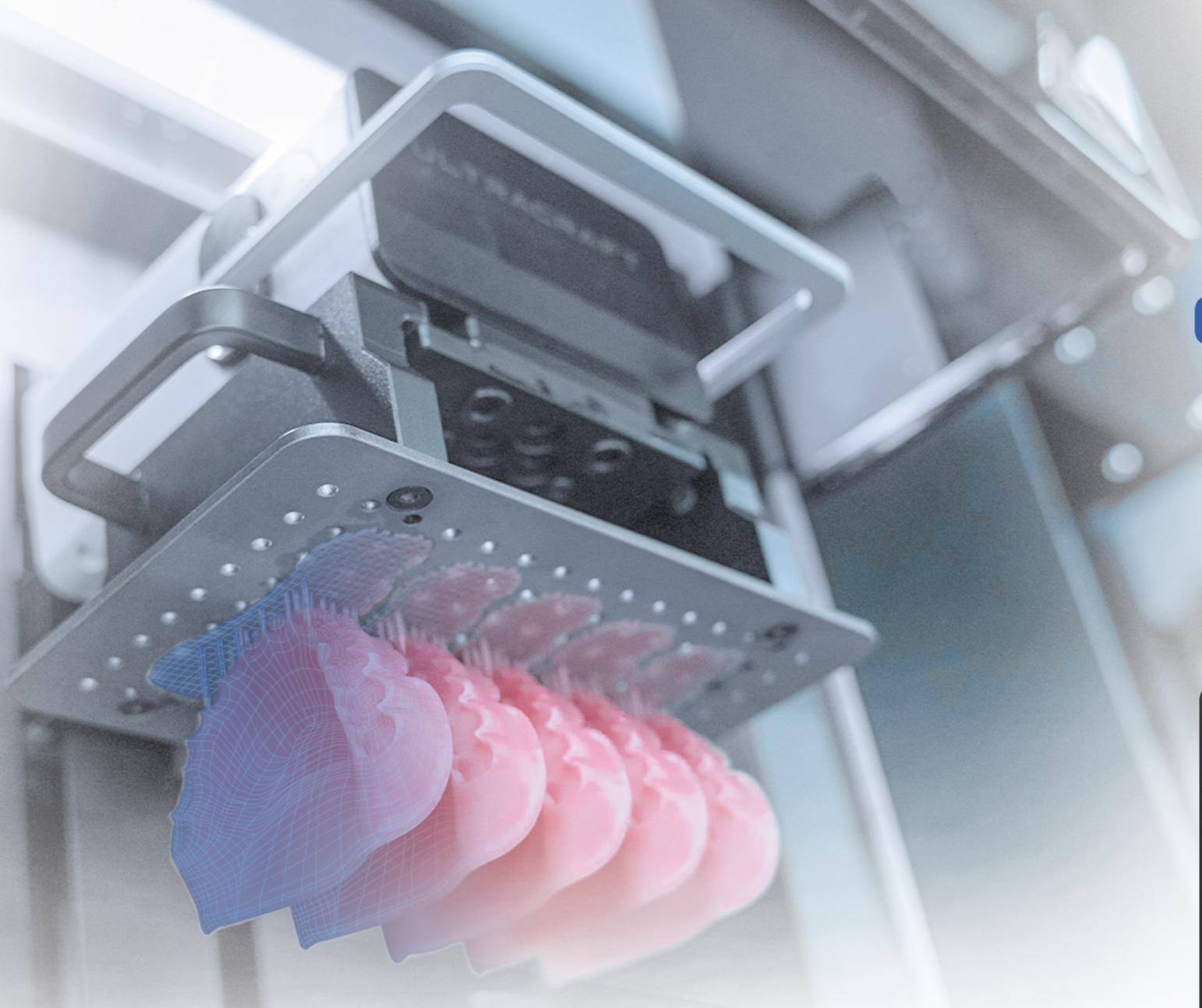


Micro-level Adjustments



Accurate O-ring Positioning After Multiple Prints

Tightness Adjustment of Sectioned Models for Specific Clinic Processes

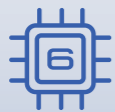


04

04 Balanced Quality & Efficiency Rapid Mass Production

206 mm x 116 mm Ultra-large Build Volume

Prints Twice as Fast



6-core CPU
for Strong
Computing Power

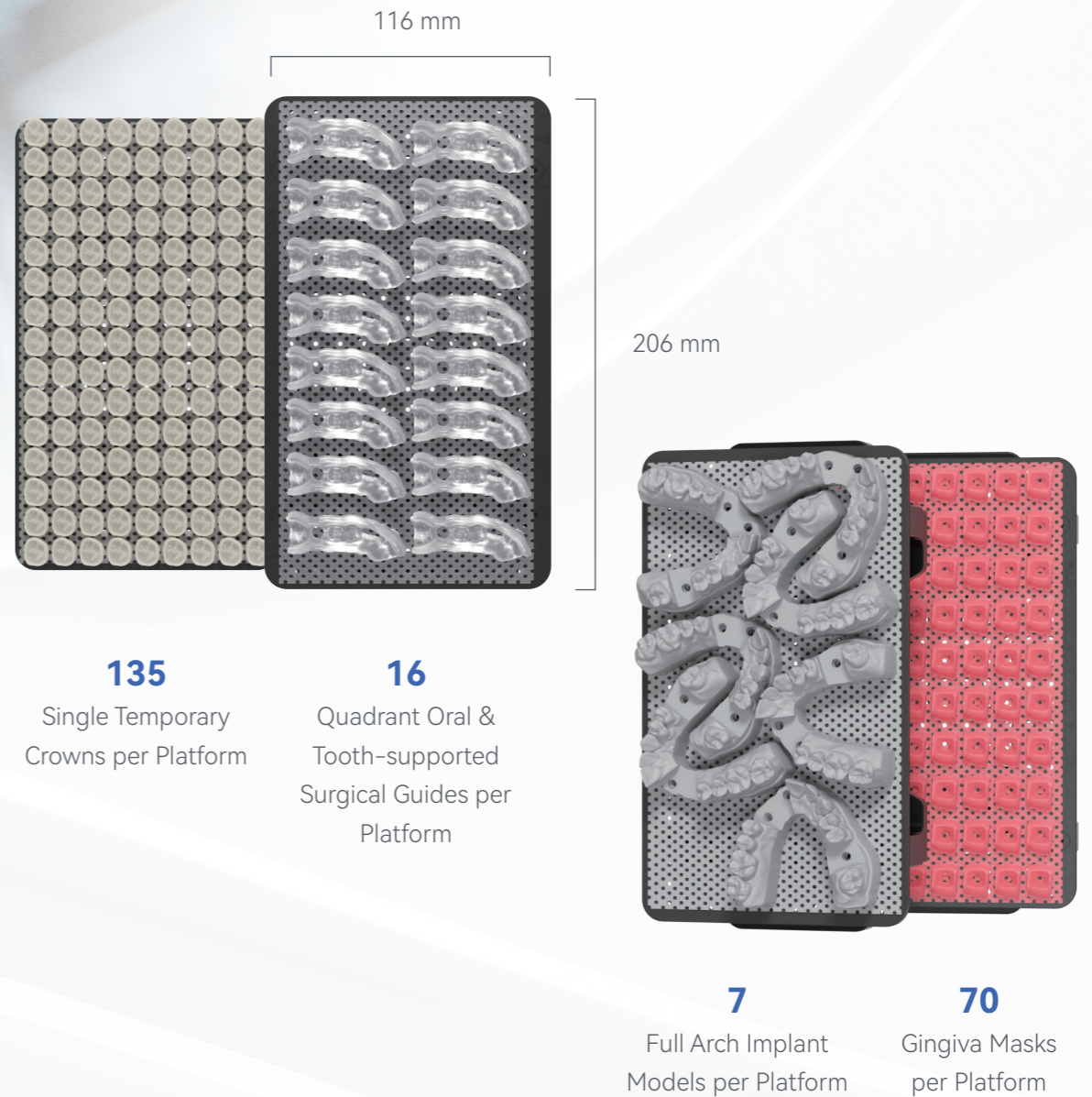


Peel Strength
Automatically Calculated
by Force Sensor



385 nm UV Light
Source for High-
speed Curing

The 385 nm wavelength UV light penetrates the resin material faster, providing deeper curing when compared with 415 nm.



05 Automation Continuous Production without Limits

HiVE (High-volume Enabler) Module Capabilities



3 mins

Platform Swapping

3 L

Liquid-filling Module*

24/7

Automated Production

Easily upgrade Your 3D printing productivity

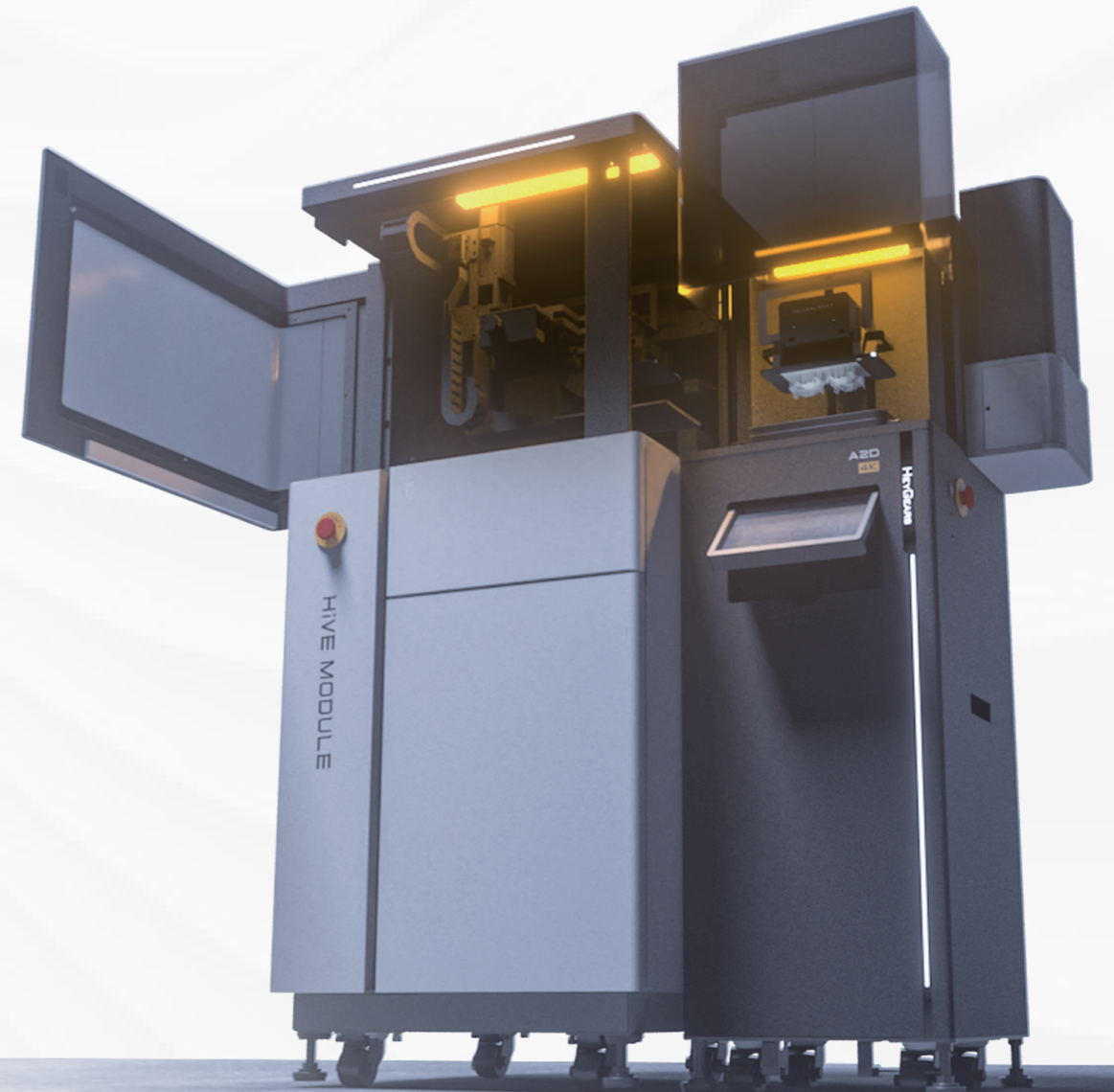
*Obtained through upgrade

Complete Process Monitoring

- ◆ Printed Part Drop
- ◆ Open/Closed Chamber
- ◆ Module Status
- ◆ Remaining Capacity
- ◆ Collection Bin Positioning

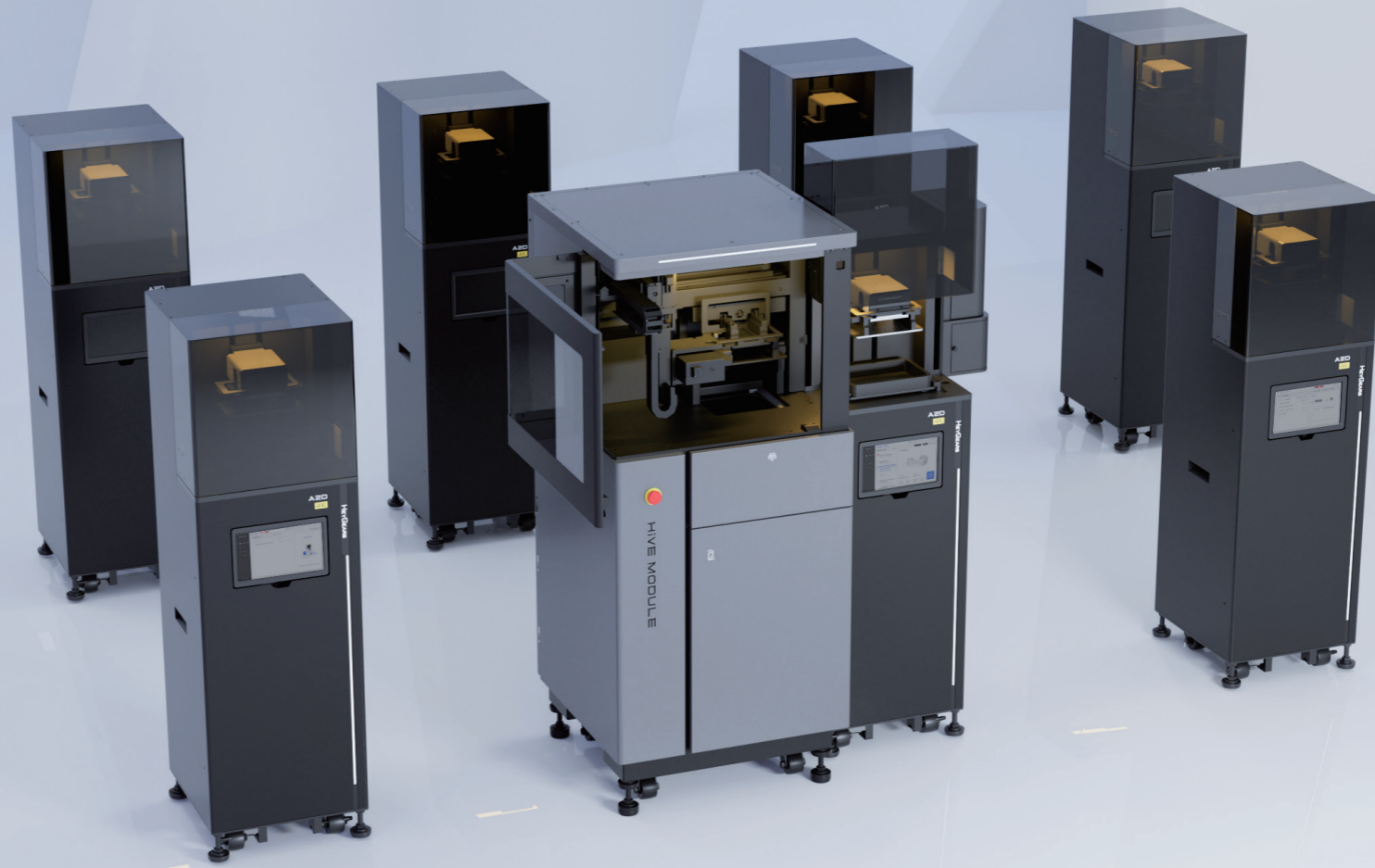
Scalable Production

- ◆ **Larger Capacity:** 1 x UltraCraft A2D 4K + HiVE = 3 x UltraCraft A2D 4K
- ◆ **Increased Efficiency:** Non-stop **24/7** production
- ◆ **Swift Production Line Transformation:** Cloud-based business expansion



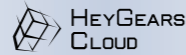
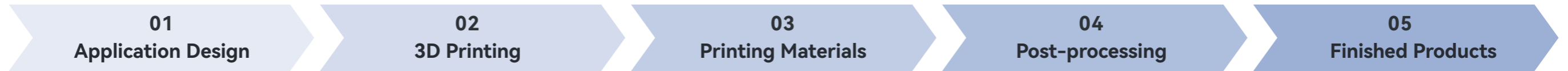
A2D 4K

06 Integrated Connection One-stop Complete Production



A2D 4K

Whole-process Support



HEYGEARS DESIGN

HeyGears Design Center

- 4 Main Fields of Dental Applications
- One-stop Service
- Customized Design
- Fast Delivery



Pre-processing Service

- Get Started with One Easy Click
- Easily Switchable Application Presets
- Quick Cloud-based Operation
- Smart, Automated, and Efficient

ULTRA-NET

Production Management System

- One Click Cloud Access
- Flexible Task Management & Planning
- Fast and Accurate Problem Tracing
- Data-based Decision-making Improves Operation
- Data Security Mechanisms Provide Greater Protection



UltraPrint Dental Materials



Ultrasonic Cleaner UltraCraft PCU 3.0



07 Complete Dental Production Covering a Variety of Applications

50+

Dental Applications

4

Major Fields of Dentistry



Fixed Restoration



Removable Restoration



Implants



Orthodontics



Implants

Print 7 full arch model within 62 mins
(approx. 1 every 9 minutes)



Fixed Restoration

Print 16 quadrant models within 60 mins
(approx. 1 every 4 minutes)



Clear Aligners

Print 500 clear aligner models every 24 hours
(approx. 1 every 3 minutes)



10+

High Performance Dental Materials



Compatible with Most
Dental Applications



Application-based
Material Matching



Continuous Research
and Development

08 Support for Digitalization

Support & Services



Quarterly Inspection

Regular equipment inspections, corresponding reports, and necessary online services for software upgrades and hardware optimization.



Equipment Maintenance

Early warning of potential faults, online maintenance, on-site support, and application fault diagnosis and repair. HeyGears offers free replacement for equipment that cannot be diagnosed and repaired due to faults or usage wear.



Further Support

If the maintenance exceeds 3 days, customers are able to send their printing tasks to HeyGears for printing.



Online & Offline
24/7 Support



Fast Response
Within 30 Minutes



On-site Service
Within 48 Hours

Worldwide Service Outlets

Headquarters: Guangzhou, China

Global Coverage: North America, Latin America, Europe, Middle East, and Asia Pacific

09 Specifications

Build Volume 206 x 116 x 110 mm
8.11 x 4.57 x 4.33 in

Resolution 3840 x 2160p

XY Native Pixel 75 μm

Build Precision ±26.8 – 37.5 μm

XPR Pixel Size 53 μm

Wavelength 385 nm

Light Source Lifetime > 30,000 hours

Machine Dimension (W * D * H) 450 x 480 x 1516 mm
17.72 x 18.9 x 59.69 in

Weight 122 kg

Touchpad Size 11.6"

Voltage 110–220V AC, 50/60Hz, 800W