



HEYGEARS



# ULTRACRAFT DS

DESKTOP DENTAL 3D PRINTER

## INTRODUCTION

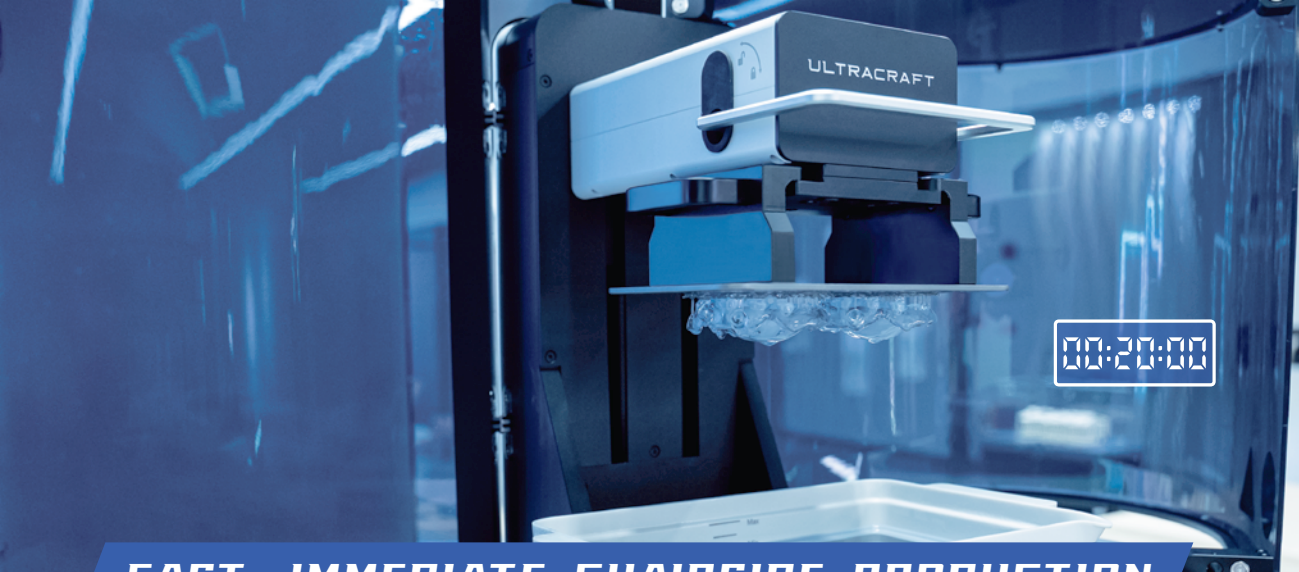
UltraCraft DS, a desktop dental 3D printer, is designed to cover a wide range of chairside applications. The concise design language and user interface make it very straightforward to use. DS is compatible with HeyGears Cloud and serves as the terminal for our full-chain digitalized solution from design service to post-processing. The one-stop solution boosts the patients' experience by providing immediate treatment while increasing the efficiency of the clinics at the same time.



## APPLICATIONS

- **Removable Restoration:** Full Digital Denture, Try-in Denture, Flipper Denture
- **Fixed Restoration:** Temporary Crowns & Bridges, Veneer, Inlay, Temporary Denture with Implant Bar
- **Implant:** Surgical Guide, Radiographic Guide, Temporary Denture, Individual Tray
- **Orthodontics and Others:** Clear Aligner Model, Indirect Bonding Tray, Hawley Retainer, Bite Plate, Night Guard, Study Model





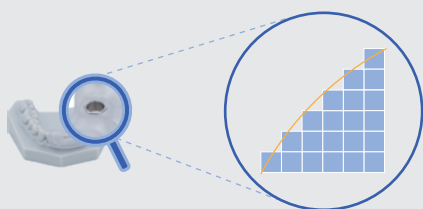
## FAST - IMMEDIATE CHAIRSIDE PRODUCTION

20 mins print-time for a full-arch surgical guide

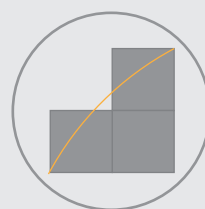
- ▶ UltraCraft DS's **385nm LED light source** can transmit deeper into the resin, accelerating the printing process under the same energy consumption.
- ▶ Empowered by HeyGears' patented **AI separation technology**, DS increases the printing speed by 40% compared with traditional DLP printers.

## PRECISE - EVERY DETAIL COUNTS

Better fitting with a comfortable experience



UltraCraft DS



Others

Higher edge resolution achieved through advanced **AA (anti-aliasing) algorithm**

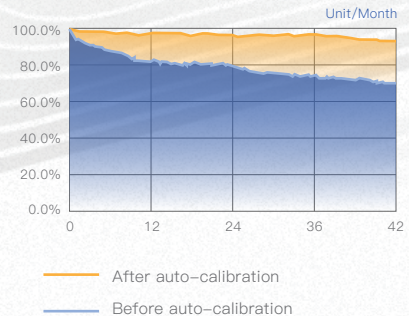
- ▶ DS is equipped with **an industrial-grade light engine**, which provides meticulous control of more than 2 million micro-mirrors. Each one of the micro-mirrors generates a pixel side-length of exactly 75um, 3/4 of a human hair.
- ▶ HeyGears' patented **optical micro-adjustment technology** can mitigate the effect brought by optical distortion, increasing print consistency and uniformity.



## Stability - CONSISTENT PERFORMANCE REGARDLESS OF TIME USED

Even after a long period of use, DS demonstrates stable print quality without compromise in print accuracy

- ▶ To ensure a high print quality after a long period of use, we implement our patented **auto-calibration technology** to make sure the optical power stays within 1% of fluctuation.
- ▶ DS is equipped with our patented **silicon resin tank**, which can withstand higher pressure and has a longer service life (>90 days) for fewer maintenance needs. The **silicon resin tank** also greatly reduces the separation force and increases print stability at the same time.
- ▶ HeyGears makes sure that all platforms and resin tanks are calibrated before being shipped out of the factory. Such calibration enables quick swaps between all platforms and resin tanks, guarantee consistent print quality across all printers.



\* The print quality is highly affected by the energy recession of more than 10% of the light engine

## Easy to Use - Get Started One Touch Away

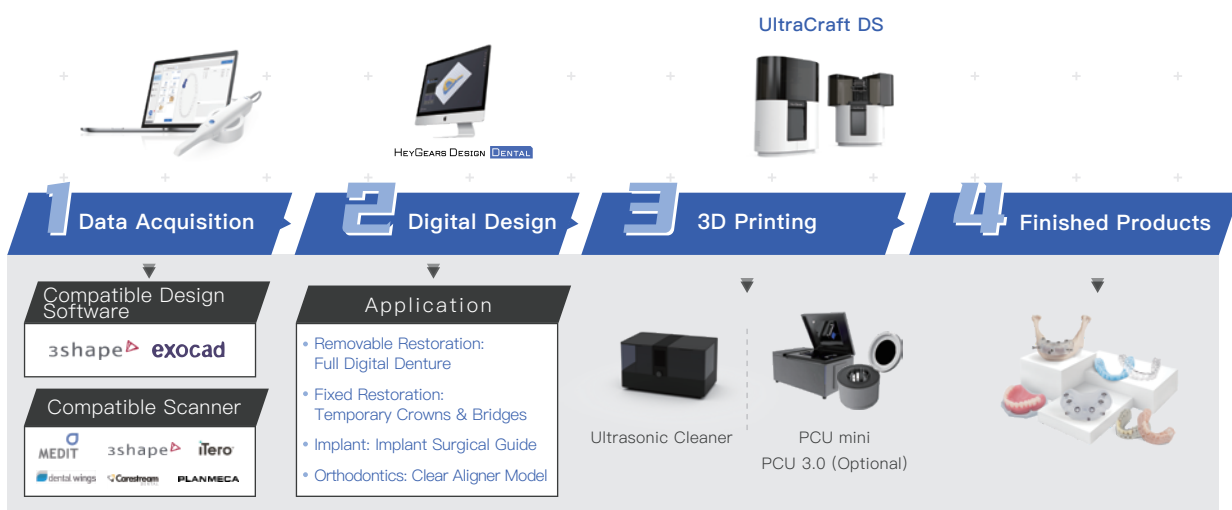
A good print is just one-click away

- ▶ Our full-chain digitalized solution allows users to finish a quality print quickly with just a touch of a button.
- ▶ HeyGears Design service helps the chairside users to complete both the design and the data preparation, and the prepared data file is then sent directly to the DS. The users only have to confirm the file and hit "Start" for production.





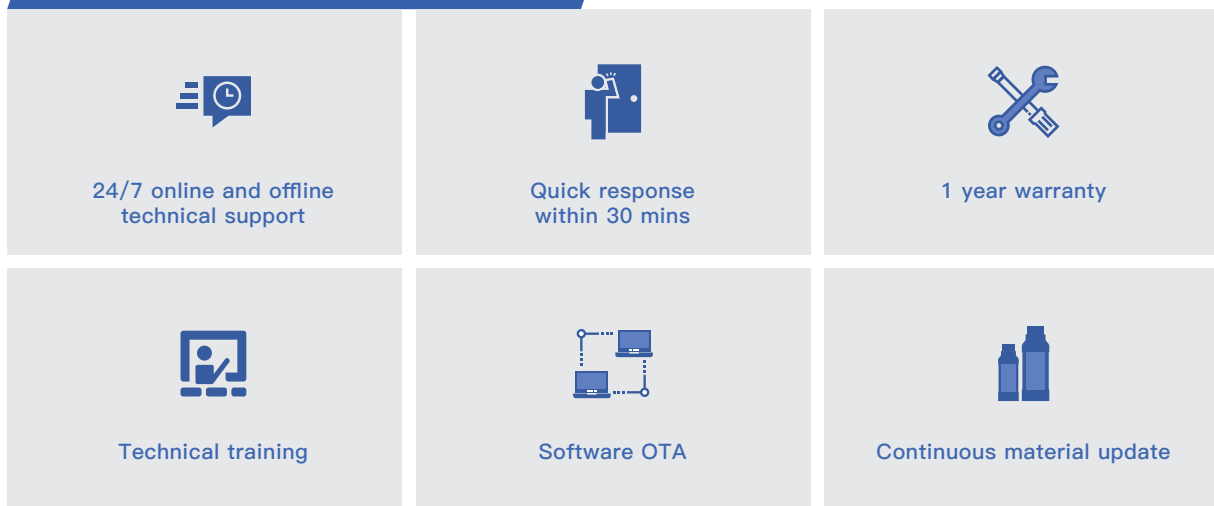
# HEYGEARS' FULL-CHAIN SOLUTION



## TECHNICAL SPECIFICATIONS

Build Size	144*81*110 mm	Data Input	.ult, .ultm	Machine Dimension	553*353*797 mm
XY Resolution	75 μm	Connectivity	Ethernet + WiFi	Weight	52 kg
Z Resolution	25–150 μm	Storage	120GB (SSD)	Power	Power: 500W Voltage: 110–240V AC Frequency: 50/60Hz
Wave Length	385 nm	Light Source Lifespan	> 3000h		
Software	HeyGears Cloud UltraCore				

## HEYGEARS SERVICES





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