3D Printers for Dentistry

Repeatable precision for quality assurance and patient safety.
Being the creators of the precision desktop 3D printer market, we continue to offer precision, surface finish and product innovations designed to outperform any other.
“Asiga’s high quality and reliability make it a great option for the lab.”

Christopher Kirkland, R&D Technical Analyst, Glidewell Laboratories

“After extensive internal testing of a variety of 3D printing systems, the ASIGA MAX UV is clearly one of the best desktop 3D printers in terms of print quality and consistency for the tested dental indications.”

Alex Pilet, Head of Advanced Technologies, Nobel Biocare

“After 15 years of printing we finally found a printer with high accuracy, consistency, fast print speed and at an affordable price. The Asiga MAX UV has been a great addition to our lab allowing us to provide a number of products from one printer with its completely open material system.”

Matthew Smith, Director Group Production, Andent

“We use the Asiga MAX UV as it offers a completely open material system that allows us to utilise resins from almost any vendor.”

Brad Race, Core 3d Centres

“The Asiga Max has been a game changer for my one man laboratory. I have the freedom to use any material due to the open material system which makes this a very powerful tool.”

Bill Marais, Owner, Disa Dental Studio

“The Asiga MAX UV completes our digital denture workflow as it offers the repeatability and consistency we need to remain competitive. Being an open system we have access to any denture base or tooth material as it reaches the market.”

Tony Finn, Managing Director, Diamond Denture Studio
Asiga 3D printers are proven as best-in-class for digital dentistry and offer the highest accuracy of any commercial 3D printer.

3D scans of full-arch dental models printed in DentaMODEL demonstrate over 93% of data points are within 50 microns of the original CAD file with a standard deviation of 31 microns.

Printed on an Asiga MAX UV in Asiga DentaMODEL, scanned using 3Shape scanner and validated in 3Shape Convince software.
Our Process Monitoring Technologies explained. These technologies ensure every layer is formed accurately resulting in a reliable output for quality assurance and patient safety.

Smart Positioning System (SPS)
Asiga’s Smart Positioning System (SPS) is a series of positioning encoders that read the exact position of the build platform during every layer approach. This ensures that the next layer is exposed/formed only once the build platform target position has been reached. This is the first step in ensuring each layer is formed accurately.

1. Approach
   Platform moves to target position

2. Encoder’s Active
   Printer waits until target is reached

3. Target reached
   Image exposed

4. Separation
   Layer separated from film

Internal radiometer
An internal radiometer actively monitors LED intensity during every build ensuring the correct light exposure is delivered for each layer.

High power UV 385nm LED
Why 385nm UV LEDs? 3D materials cure faster at deeper UV wavelengths (385nm) reducing XY scattering and over-cure. The result is consistent accuracy, production reliability and the ability to process water-clear materials.

Small pixel and accurate pixel placement
Pixel size and pixel placement are crucial for reproducing digital data accurately. For dentistry, we recommend pixel sizes between 60 - 80µm depending on application.

Precise material curing
Our Open Material System allows for any suitable material to be printed. Material curing parameters for each material are generated by Asiga ensuring materials are cured accurately for repeatable results.
4K mode - 3D printing reimagined.

4K mode
Using pixel shifting technology, Asiga’s 4K mode reduces the pixel size to increase part accuracy and resolution without impacting build area or printing time.

Surface definition in Native mode
Surface definition in 4K mode

4K mode is available on all PRO 4K 3D printers only.
Our end user features.
3D printing made intuitive and simple.

Open Material System
Over 380 optimized material profiles available via the Asiga Material Library online. Fully Open - print any suitable material from any manufacturer.

Single Point Calibration
Calibrate printer in under 60 seconds.

30 Second Material Change
Change-over materials in less than 30 seconds with no calibration required.

Auto Power-Off
Energy saving mode and auto-recovery.

Environmental Control
Onboard heater for reliable performance.

Remote access and control
Streamlined integration into your digital workflow.

Touch Screen Display
For greater user convenience.
Asiga dental 3D printers for the Clinic or Laboratory.
Proven performance, unrivalled repeatability. The MAX UV is the industry benchmark for precision dental 3D printing. Optimised for the production of all types of dental appliances from restorative dentistry through to orthodontic.

**Product specification**

- **Build Volume X, Y, Z:** 119 x 67 x 76mm / 4.68 x 2.63 x 3 inches
- **Pixel Resolution:** 62µm
- **Technology:** DLP
- **LED Wavelength:** 385nm (High power UV LED)
- **Asiga dental materials:**
  - DentaMODEL (dental models)
  - DentaGUM (gingiva mask, soft tissue)
  - DentaCAST (investment casting and pressing)
  - DentaCLEAR (occlusal splints) *
  - DentaGUIDE (surgical guides) *
  - DentaIBT (indirect bonding trays) *
  - DentaTRY (Try-in, custom impression trays) *
  - DentaBASE (denture base) *
  - DentaTOOTH (denture teeth) *
- **Material Compatibility:** Open Material System. Over 400 validated materials available via Asiga’s Material Library online.
- **Production:** Dental models, surgical guides, denture bases, temporaries, partial frameworks, IBT’s, crown and bridge, custom trays, splints and more.
- **Software:** Asiga Composer software. Lifetime updates included
- **File inputs:** STL, PLY, SLIC (Asiga 3D plug-in format)
- **Network Compatibility:** Wi-Fi, Wireless Direct, Ethernet
- **Power requirements:** 100-240VAC, 50/60Hz, 2.0A MAX
- **System sizing:** 260 x 380 x 370mm / 16.50Kg. 10.2 x 15 x 14.5 inches / 36.4Lbs
  - 410 x 500 x 480mm / 19Kg. 16.1 x 19.7 x 18.9 inches / 41.9Lbs
- **Warranty:** 12 months manufactured warranty
- **Technical support:** Unlimited lifetime technical support included
- **Bundle includes:** 3D printer, Composer software, 1Kg Asiga material, 1L build tray, Asiga Flash post-curing chamber, calibration toolkit

*Contact Asiga for information regarding material biocompatibility certification in your region.*
## Product specification

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<thead>
<tr>
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<th>PRO 4K65</th>
<th>PRO 4KB0</th>
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<tbody>
<tr>
<td>Build Volume X, Y, Z</td>
<td>176.5 x 99 x 200mm</td>
<td>217 x 122 x 200mm</td>
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<tr>
<td>Print size - 4K mode</td>
<td>46µm</td>
<td>46µm</td>
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<tr>
<td>Print size - Native mode</td>
<td>56µm</td>
<td>56µm</td>
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<tr>
<td>Technology</td>
<td>DLP</td>
<td>DLP</td>
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<td>LED Wavelength</td>
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<td>DentaCAST (investment casting and pressing)</td>
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<td></td>
<td>DentaCLEAR (occlusal spines)</td>
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<td>DentaGUIDE (surgical guides)</td>
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<td></td>
<td>DentaTOOTH (denture teeth)</td>
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</tbody>
</table>

### Material Compatibility
- Open Material System. Over 400 validated materials available via Asiga’s Material Library online.

### Production
- Dental models, surgical guides, denture bases, temporaries, partial frameworks, IBTs, crown and bridge, custom trays, splints and more.

### Software
- Asiga Composer software. Lifetime updates included
- STL, PLY, SLC, STM (Asiga Stomp file format)

### Network Compatibility
- WiFi, WirelessDirect, Ethernet

### Power requirements
- 100-240VAC, 50/60Hz, 500Watts (100V - 5Amp Max, 240V - 2.1Amp)

### System sizing
- 605 x 540 x 137mm / 160 kg
- 18.5 x 21.2 x 53.9 inches / 309 lb

### Packed sizing
- 900 x 700 x 1540mm / 205 kg
- 35.4 x 27.6 x 60.6 inches / 452 lb

### Warranty
- 12 months manufacturers warranty

### Technical support
- Unlimited lifetime technical support included

### Bundle includes
- 3D printers, Composer software, 1kg Asiga material, 2L build tray, Asiga Flash post-curing chamber, calibration toolkit

*Contact Asiga for information regarding material biocompatibility certification in your region.*

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**Print Speed 60mm/hr**

**TRUSTED BY**

**DENTAL CLINICS & LABORATORIES WORLDWIDE**

**PROVEN PERFORMANCE, UNMATCHED BUILD QUALITY**

**LIFETIME TECHNICAL SUPPORT GUARANTEE**

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**The PRO 4K utilises the latest DLP imaging technology to achieve the largest print envelope in our range, with precision, reliability and speed for the most demanding production applications. 4K mode available as standard.**

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**PRO 4K**

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**Product specication**

**Print Speed 60mm/hr**

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**4K MODE**
Our Open Material System provides compatibility with over 400 materials from many of the world’s leading material manufacturers.
Asiga materials suitable for any DLP 3D printer.

**DentaMODEL**
- Dental Models
- Quadrants
- Dental Models for thermoforming

Compatible with 385nm / 405nm printers

**DentaGUM**
- Gingiva

Compatible with 385nm / 405nm printers

500g bottle available

*Contact Asiga for information regarding material biocompatibility certification in your region*

**DentaCAST**
- Investment casting / C&B
- Partial Frameworks

Compatible with 385nm / 405nm printers

**DentaCLEAR**
- Occlusal Splints *

Compatible with 385nm printers

**DentaGUIDE**
- Surgical Guides *

Compatible with 385nm printers

**DentalIBT**
- Indirect Bonding Trays *

Compatible with 385nm printers

**DentaTRY**
- Try-Ins *
- Custom Impression Trays *

Available colours: A1, A2, A3, B1, B2, B3

Compatible with: 385nm / 405nm printers

**DentaBASE**
- Denture Base *

Compatible with: 385nm / 405nm printers

**DentaTOOTH**
- Denture Teeth *

Available colours: A1, A2, A3, B1, B2, B3

Compatible with: 385nm / 405nm printers

**DentaGUM**
- Gingiva

Compatible with 385nm / 405nm printers

500g bottle available

www.asiga.com
Composer is the software interface to all our 3D Printers. Powerful, intuitive and free.

Automatic Support and Part Placement
For fast build processing and greater user efficiency

Build Time Estimator
Effectively schedule your production workflow

Multi-Stacking included
Maximize Z height usage and build multiple levels of parts

Simple & Intuitive
Submit builds within a minimal number of clicks. Compatible with file types STL, PLY, SLC, STM

Dynamic Part Array
Place parts based on geometry to maximize available build area

Load and Process Multiple Builds
Manage multiple builds at the same time in a simple tab based interface

Remote Control
Access your printer via a simple web interface

Compatible with Apple, Windows, Linux

www.asiga.com
Seamless integration with leading 3D scanning and digital design software providers.
Free and unlimited lifetime technical support. Local sales, service and support via our global reseller network.
Affordable Digital Manufacturing, it’s something Asiga invented.

In 2011, Asiga launched the world’s first LED based DLP 3D printer and started the affordable desktop stereolithography revolution which changed digital manufacturing forever.

Asiga won the MUSA’s 2012 Thinking Ahead award for best new technology and gained international recognition for innovative products which continue to lead their respective categories to this day.

Asiga designs and manufactures all products at its headquarters in Sydney, Australia. Asiga’s in-house mechanical, electrical, software and materials team ensures continued innovation and product improvement.

Contact us or one of our resellers to learn more.

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