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

"We use the Asiga MAX UV as if offers a completely open material system that allows us to utilise resins from almost any vendor."
Brad Race, Owner, Race Dental

"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 costistency 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 have proven to produce very high quality models and their DLP technology allows the use of many compatible third party materials including Detax, Dreve, Pro3dure and Whip Mix."
David Rodwell, Owner, Rodwell Orthodontic Laboratory
Asiga’s high quality and reliability make it a great option for the lab.

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Asiga 3D printers have proven to produce very high quality models and their DLP technology allows the use of many compatible third party materials including Detax, Dreve, Pro3dure and Whip Mix.

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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.
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.

In tolerance(%): 93.0655
Out tolerance(%): 6.9345
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 Technology (SPS)

The Smart Positioning System (SPS) is a series of positioning encoders that read the exact position of the build platform during each layer approach. This ensures the next layer is only exposed/formed once the build platform target position has been reached.

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 each build ensuring the correct light exposure is delivered for every layer.

High power UV 385nm LED

To print water-clear materials and many of the industry leading materials, a UV 385nm LED is required.

Small pixel and accurate pixel placement

Pixel size and pixel placement are important for reproducing digital data accurately to achieve a precise fit. For dentistry, small pixel sizes are critical and we recommend between 47µm - 80µm depending on application.

Precise material curing

An 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.
Our end user features.
3D printing made intuitive and simple.
Single Point Calibration
Calibrate in under 60 seconds

Auto Power-Off
Energy saving mode and auto-recovery

Environmental Control
Onboard heater for reliable performance

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

High Power UV LED 385nm
For long term reliability, accuracy and for processing water-clear materials

Open Material System
Use any Asiga material and any suitable 3rd party material

Touch Screen Display
For greater user convenience

Remote access and control
Streamlined integration into your digital workflow

www.asiga.com
Asiga dental 3D printers.
PRO Series

Asiga dental 3D printers.

www.asiga.com
MAX LCD
MAX series dental 3D printer

www.asiga.com

Digital Dental Solutions

Build Volume X, Y, Z

Pixel Resolution

Technology

LED Wavelength

Asiga dental materials

Material Compatibility

Production

Software

File inputs

Network Compatibility

Power requirements

System sizing

Packed sizing

Warranty

Technical support

Bundle includes

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

121 x 68 x 76mm.          4.75 x 2.7 x 3 inches

47µm

LCD

405nm (high power LED)

DentaMODEL-LCD (dental models)

DentaCLEAR-LCD (surgical guides, splints, custom impression trays) *

DentaCAST-LCD (investment casting and pressing)

DentaFLEX-LCD (indirect bonding tray, gingiva mask) *

DentaBASE-LCD (denture base) *

DentaTOOTH-LCD (denture teeth, temporary crown, inlay/onlay) *

Open Material System including materials from Detax, Whip Mix, Dreve, NextDent, Scheu, Dentca, Pro3dure, Dentona, Keystone & more.

Dental models, surgical guides, denture bases, temporaries, partial frameworks, IBT’s, crown and bridge, custom trays, splints and more.

Asiga Composer software.  Lifetime updates included

STL, SLC, STM (Asiga Stomp file format)

Wifi, WirelessDirect, Ethernet

100-240VAC,  50/60Hz,  2.0A MAX

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

12 months manufacturers warranty

Unlimited lifetime technical support included

3D printer, Composer software, 1Kg Asiga material, 1L build tray, Asiga Flash post-curing chamber, calibration toolkit

TRUSTED BY
DENTAL CLINICS & LABORATORIES WORLDWIDE

PROVEN PERFORMANCE
UNMATCHED BUILD QUALITY

LIFETIME TECHNICAL SUPPORT GUARANTEE
MAX LCD

The MAX LCD offers dental laboratories and clinics an affordable, repeatable and accurate 3D printing solution.

Product specification

<table>
<thead>
<tr>
<th>Build Volume X, Y, Z</th>
<th>121 x 68 x 76mm. 4.75 x 2.7 x 3 inches</th>
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<td>405nm (high power LED)</td>
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Asiga dental materials

- DentaMODEL-LCD (dental models)
- DentaCLEAR-LCD (surgical guides, splints, custom impression trays) *
- DentaCAST-LCD (investment casting and pressing)
- DentaFLEX-LCD (indirect bonding tray, gingiva mask) *
- DentaBASE-LCD (denture base) *
- DentaTOOTH-LCD (denture teeth, temporary crown, inlay/onlay) *

Material Compatibility

Open Material System including materials from Detax, Whip Mix, Dreve, NextDent, Scheu, Dentca, Pro3dure, Dentona, Keystone & more.

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, SLC, STM (Asiga Stomp file format)

Network Compatibility

Wifi, WirelessDirect, 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

Packed sizing

410 x 500 x 480mm / 19Kg. 16.1 x 19.7 x 18.9 inches / 41.9Lbs

Warranty

12 months manufacturers 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
MAX UV

MAX series dental 3D printer

www.asiga.com

®

Digital Dental Solutions

®

Build Volume X, Y, Z

Pixel Resolution

Technology

LED Wavelength

Asiga dental materials

Material Compatibility

Production

Software

File inputs

Network Compatibility

Power requirements

System sizing

Packed sizing

Warranty

Technical support

Bundle includes

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119 x 67 x 76mm.          4.68 x 2.63 x 3 inches

62µm

DLP

385nm (high power UV LED)

DentaMODEL (dental models)

DentaCLEAR (surgical guides, splints, custom impression trays) *

DentaCAST (investment casting and pressing)

DentaFLEX (indirect bonding tray, gingiva mask) *

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12 months manufacturers warranty

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Unlimited lifetime technical support included

3D printer, Composer software, 1Kg Asiga material, 1L build tray, Asiga Flash post-curing chamber, calibration toolkit

TRUSTED BY
DENTAL CLINICS &
LABORATORIES
WORLDWIDE

PROVEN
PERFORMANCE,
UNMATCHED
BUILD QUALITY

LIFETIME
TECHNICAL
SUPPORT
GUARANTEE
**MAX UV**

Proven performance, unrivaled 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.

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**Product specification**

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**Asiga dental materials**

- DentaMODEL (dental models)
- DentaCLEAR (surgical guides, splints, custom impression trays) *
- DentaCAST (investment casting and pressing)
- DentaFLEX (indirect bonding tray, gingiva mask) *
- DentaBASE (denture base) *
- DentaTOOTH (denture teeth, temporary crown, inlay/onlay) *

**Material Compatibility**

Open Material System including materials from Detax, Whip Mix, Dreve, NextDent, Scheu, Dentca, Pro3duce, Dentona, Keystone & more.

**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, SLC, STM (Asiga Stomp file format)

**Network Compatibility**

Wifi, WirelessDirect, 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

**Packed sizing**

410 x 500 x 480mm / 19Kg. 16.1 x 19.7 x 18.9 inches / 41.9Lbs

**Warranty**

12 months manufacturers 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
PRO HD
PRO series dental 3D printer

www.asiga.com

Digital Dental Solutions

Build Volume X, Y, Z
Pixel Resolution
Technology
LED Wavelength
Asiga dental materials
Material Compatibility
Production Software
File inputs
Network Compatibility
Power requirements
System sizing
Packed sizing
Warranty
Technical support
Bundle includes

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DentaMODEL (dental models)  
DentaCLEAR (surgical guides, splints, custom impression trays) *
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DentaFLEX (indirect bonding tray, gingiva mask) *
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Dental models, surgical guides, denture bases, temporaries, partial frameworks, IBT's, crown and bridge, custom trays, splints and more.

Asiga Composer software. Lifetime updates included

STL, SLC, STM (Asiga Stomp file format)

Wifi, WirelessDirect, Ethernet

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

465 x 420 x 1370mm / 75Kg.          18.3 x 16.5 x 53.9 inches / 165Lbs

975 x 735 x 1590mm / 100Kg.          38.3 x 28.9 x 62.6 inches / 220Lbs

975 x 735 x 1590mm / 100Kg.          38.3 x 28.9 x 62.6 inches / 220Lbs

12 months manufacturers warranty

Unlimited lifetime technical support included

3D printer, Composer software, 1Kg Asiga material, 1L build tray, Asiga Flash post-curing chamber, calibration toolkit

Product specification

The PRO HD combines proven industry-leading precision and a large build envelope with high-speed print capability for professional dental labs and clinics.

TRUSTED BY
DENTAL CLINICS & LABORATORIES WORLDWIDE

PROVEN PERFORMANCE, UNMATCHED BUILD QUALITY

LIFETIME TECHNICAL SUPPORT GUARANTEE
**PRO HD**

The PRO HD combines proven industry-leading precision and a large build envelope with high-speed print capability for professional dental labs and clinics.

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<th>PRO HD65</th>
<th>PRO HD80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Build Volume X, Y, Z</td>
<td>125 x 70 x 200mm.</td>
<td>153.6 x 86.4 x 200mm.</td>
</tr>
<tr>
<td>Pixel Resolution</td>
<td>65µm</td>
<td>80µm</td>
</tr>
<tr>
<td>Technology</td>
<td>DLP</td>
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<tr>
<td>LED Wavelength</td>
<td>385nm (high power UV LED)</td>
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**Asiga dental materials**
- DentaMODEL (dental models)
- DentaCLEAR (surgical guides, splints, custom impression trays) *
- DentaCAST (investment casting and pressing)
- DentaFLEX (indirect bonding tray, gingiva mask) *
- DentaBASE (denture base) *
- DentaTOOTH (denture teeth, temporary crown, inlay/onlay) *

**Material Compatibility**
Open Material System including materials from Detax, Whip Mix, Dreve, NextDent, Scheu, Dentca, Pro3dure, Dentona, Keystone & more.

**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, SLC, STM (Asiga Stomp file format)

**Network Compatibility**
Wifi, WirelessDirect, Ethernet

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

**System sizing**
465 x 420 x 1370mm / 75Kg.   18.3 x 16.5 x 53.9 inches / 165Lbs

**Packed sizing**
975 x 735 x 1590mm / 100Kg.  38.3 x 28.9 x 62.6 inches / 220Lbs

**Warranty**
12 months manufacturers 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.
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.

**Technical Specifications**

- **Build Volume X, Y, Z**:
  - PRO 4K65: 176.5 x 99 x 200mm / 6.94 x 3.9 x 7.87 inches
  - PRO 4K80: 217 x 122 x 200mm / 8.54 x 4.8 x 7.87 inches

- **Pixel Resolution**:
  - PRO 4K65: 65µm
  - PRO 4K80: 80µm

- **Technology**:
  - DLP
  - LED Wavelength: 385nm (high power UV LED)

- **Asiga dental materials**
- DentaMODEL (dental models)
- DentaCLEAR (surgical guides, splints, custom impression trays)
- DentaCAST (investment casting and pressing)
- DentaFLEX (indirect bonding tray, gingiva mask)
- DentaBASE (denture base)
- DentaTOOTH (denture teeth, temporary crown, inlay/onlay)

- **Open Material System**: Including materials from Detax, Whip Mix, Dreve, NextDent, Scheu, Dentca, Pro3dure, Dentona, Keystone & more.

- **Software**: Asiga Composer software. Lifetime updates included

- **File inputs**: STL, SLC, STM (Asiga Stomp file format)

- **Network Compatibility**: Wifi, WirelessDirect, Ethernet

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

- **System sizing**
  - PRO 4K65: 465 x 420 x 1370mm / 75Kg. 18.3 x 16.5 x 53.9 inches / 165Lbs
  - PRO 4K80: 975 x 735 x 1590mm / 100Kg. 38.3 x 28.9 x 62.6 inches / 220Lbs

- **Warranty**: 12 months manufacturers 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.**

**Trusted by Dental Clinics & Laboratories Worldwide**

- **Proven Performance**, **Unmatched Build Quality**
- **Lifetime Technical Support Guarantee**
PRO 4K

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.

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<td>Material Compatibility</td>
<td>Open Material System including materials from Detax, Whip Mix, Dreve,</td>
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<tr>
<td></td>
<td>NextDent, Scheu, Dentca, Pro3dure, Dentona, Keystone &amp; more.</td>
<td></td>
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<tr>
<td>Production</td>
<td>Dental models, surgical guides, denture bases, temporaries, partial</td>
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<td>frameworks, IBT’s, crown and bridge, custom trays, splints and more.</td>
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<td>Software</td>
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<td>Bundle includes</td>
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<tr>
<td></td>
<td>Flash post-curing chamber, calibration toolkit</td>
<td></td>
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</table>

* Contact Asiga for information regarding material biocompatibility certification in your region.
Our 100% Open Material System allows for 3D printing any suitable material from any manufacturer.
Widest material choice available

Our 100% Open Material System allows for 3D printing any suitable material from any manufacturer.
Asiga LCD materials suitable for any LCD 3D printer.

DentaMODEL-LCD
- Dental Models
- Quadrants
- Dental Models for thermoforming
- 405nm compatible

DentaCLEAR-LCD
- Surgical Guides *
- Splints *
- Custom Impression Trays *
- 405nm compatible

DentaBASE-LCD
- Denture Base *
- 405nm compatible

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

- Temporary C&B *
- Temporary Dentures *
- Inlays / Onlays *
- Available in A1, A2, A3
- 405nm compatible

DentaCAST-LCD

- Investment casting / pressing C&B
- Partial Frameworks
- 405nm compatible

DentaFLEX-LCD

- IBT - Indirect Bonding Trays *
- Gingiva mask
- 405nm compatible

Note: DentaFLEX-LCD is red in colour which changes to clear after post curing
Asiga DLP materials suitable for any DLP 3D printer.

**DentaMODEL**
- Dental Models
- Quadrants
- Dental Models for thermoforming
  - 385nm - 405nm compatible

**DentaCLEAR**
- Surgical Guides *
- Splints *
- Custom Impression Trays *
  - 385nm compatible

**DentaBASE**
- Denture Base *
  - 385nm - 405nm compatible

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DentaTOOTH
- Temporary C&B *
- Temporary Dentures *
- Inlays / Onlays *
- Available in A1, A2, A3
- 385nm - 405nm compatible

DentaCAST
- Investment casting / pressing C&B
- Partial Frameworks
- 385nm - 405nm compatible

DentaFLEX
- IBT - Indirect Bonding Trays *
- Gingiva mask
- 385nm compatible

Note: DentaFLEX-LCD is red in colour which changes to clear after post curing

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www.asiga.com
Asiga 3D printers are compatible with the following material manufacturers.
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OPEN MATERIALS
Compatible with leading brands

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

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
Full compatibility with leading 3D scanning and digital design software providers.
Compatible with leading brands

Digital Dental Solutions

®

www.asiga.com

MEDIT

3shape

exocad

dental wings

SCHEU

smart optics
Free and unlimited lifetime technical support. Local sales, service and support via our global reseller network.
Free and unlimited lifetime technical support.

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