

ASIGA[®]



3D Printers for Dentistry

Repeatable precision for quality assurance and patient safety.




SWISS NF METALS, INC.

www.swissnf.com
Toll Free: 1.800.387.5031

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

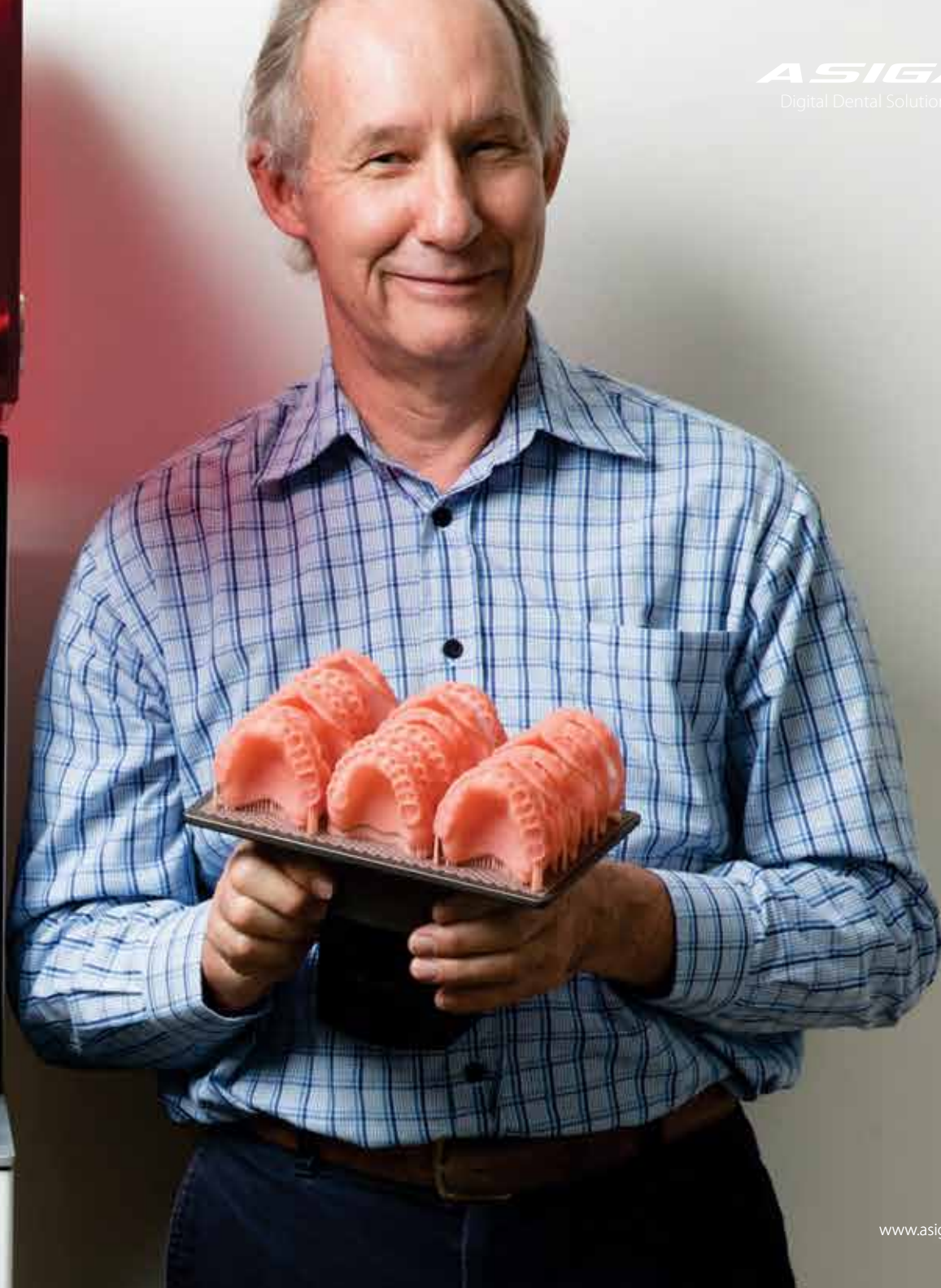


"The Asiga MAX UV completes our digital denture workflow as it offers the repeatability and costistency we need to remain competitive. Being an open system we have access to any denture base or tooth material as it reaches the market."
Tony Finn, Managing Director, Diamond Denture Studio



"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[®]
Digital Dental Solutions



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

| | |
|-------------------|---------|
| # Points: | 195400 |
| Min: | -1.3662 |
| Max: | 1.994 |
| Mean value: | -0.0024 |
| Variance: | 0.001 |
| Std deviation: | 0.0317 |
| RMS: | 0.0318 |
| In tolerance(%): | 93.0655 |
| Out tolerance(%): | 6.9345 |



Color scale X

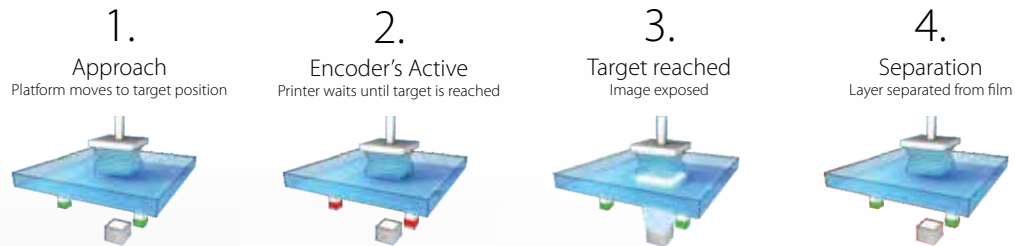
Options



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.



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 47 μ m - 80 μ m 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.

END USER FEATURES
Intuitive and simple to use

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

Asiga dental 3D printers.



**MAX
LCD**

MAX
Series



**MAX
UV**

PRO
Series



**PRO
HD**



**PRO
4K**

MAX LCD
MAX series dental 3D printer



TRUSTED BY
DENTAL CLINICS &
LABORATORIES
WORLDWIDE

PROVEN
PERFORMANCE,
UNMATCHED
BUILD QUALITY

LIFETIME
TECHNICAL
SUPPORT
GUARANTEE

ASIGA®

MAX LCD

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



Product specification

| | |
|------------------------|--|
| Build Volume X, Y, Z | 121 x 68 x 76mm. 4.75 x 2.7 x 3 inches |
| Pixel Resolution | 47µm |
| Technology | LCD |
| LED Wavelength | 405nm (high power LED) |
| 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



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.



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) 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. |
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PRO HD
PRO series dental 3D printer



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.



| Product specification | PRO HD65 | | PRO HD80 | |
|------------------------|--|---------------------------|------------------------------------|-----------------------|
| Build Volume X, Y, Z | 125 x 70 x 200mm. | 4.92 x 2.75 x 7.87 inches | 153.6 x 86.4 x 200mm. | 6 x 3.4 x 7.87 inches |
| Pixel Resolution | 65µm | | 80µm | |
| Technology | DLP | | DLP | |
| LED Wavelength | 385nm (high power UV LED) | | 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) * | | | |
| 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 | | | |

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PRO 4K
PRO series dental 3D printer



ASIGA®

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.



| Product specification | PRO 4K65 | | PRO 4K80 | |
|------------------------|--|--------------------------|------------------------------------|--------------------------|
| Build Volume X, Y, Z | 176.5 x 99 x 200mm. | 6.94 x 3.9 x 7.87 inches | 217 x 122 x 200mm. | 8.54 x 4.8 x 7.87 inches |
| Pixel Resolution | 65µm | | 80µm | |
| Technology | DLP | | DLP | |
| LED Wavelength | 385nm (high power UV LED) | | 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) * | | | |
| 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 | |
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| Warranty | 12 months manufacturers warranty | | | |
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MATERIALS

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

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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

Asiga 3D printers are compatible with the following material manufacturers.

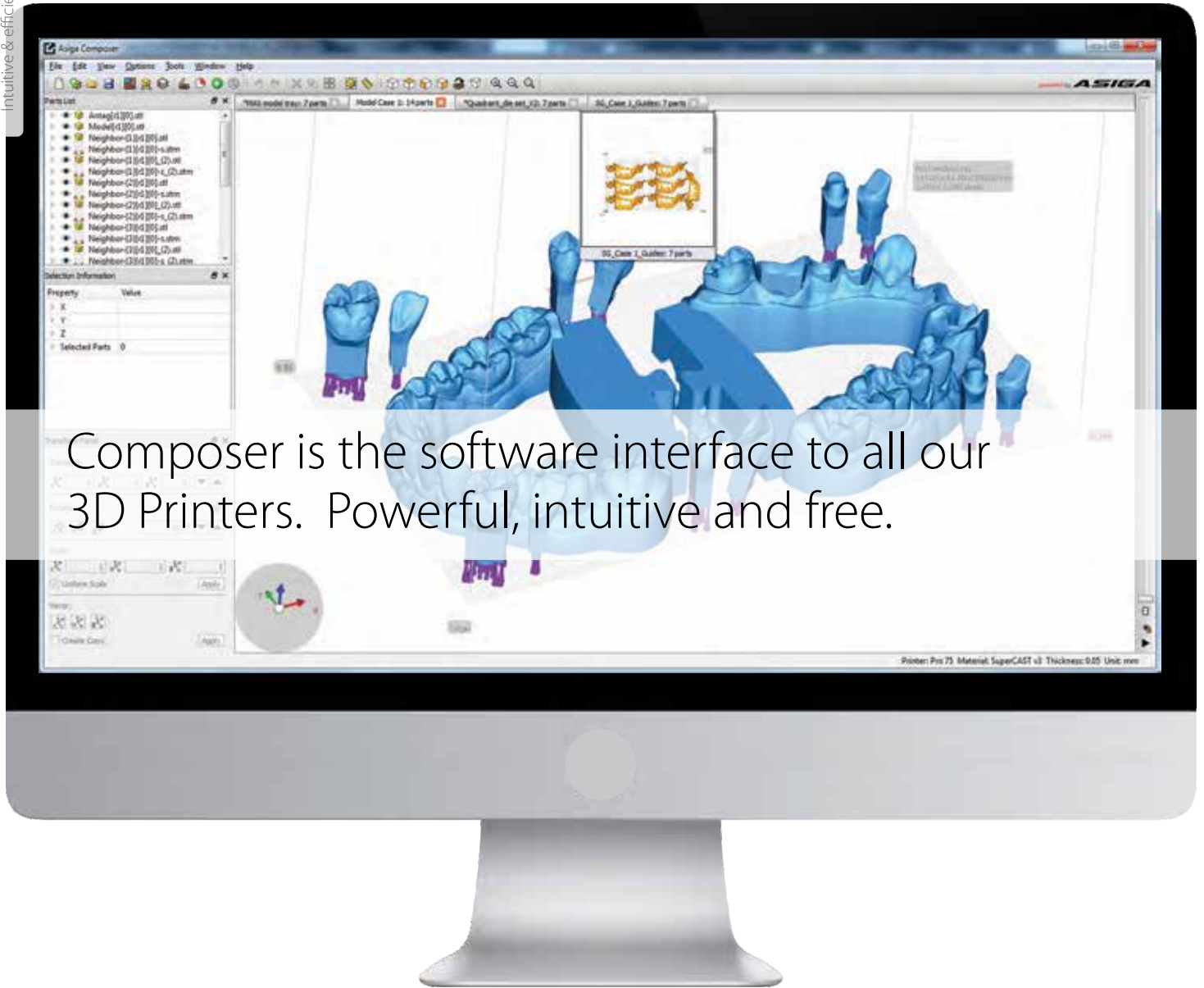


DETAX



DENTCA[™]
CAD/CAM DENTURE





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.


MEDIT

3shape 

exocad

 **dental wings**


SCHEU


smart optics

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

S I G A

ASIGA
Digital Dental Solutions



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 MJSA'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 it's 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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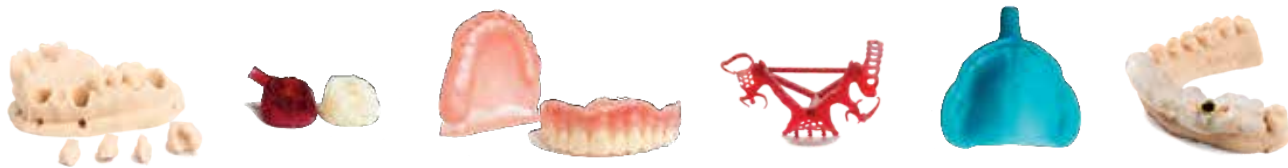
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