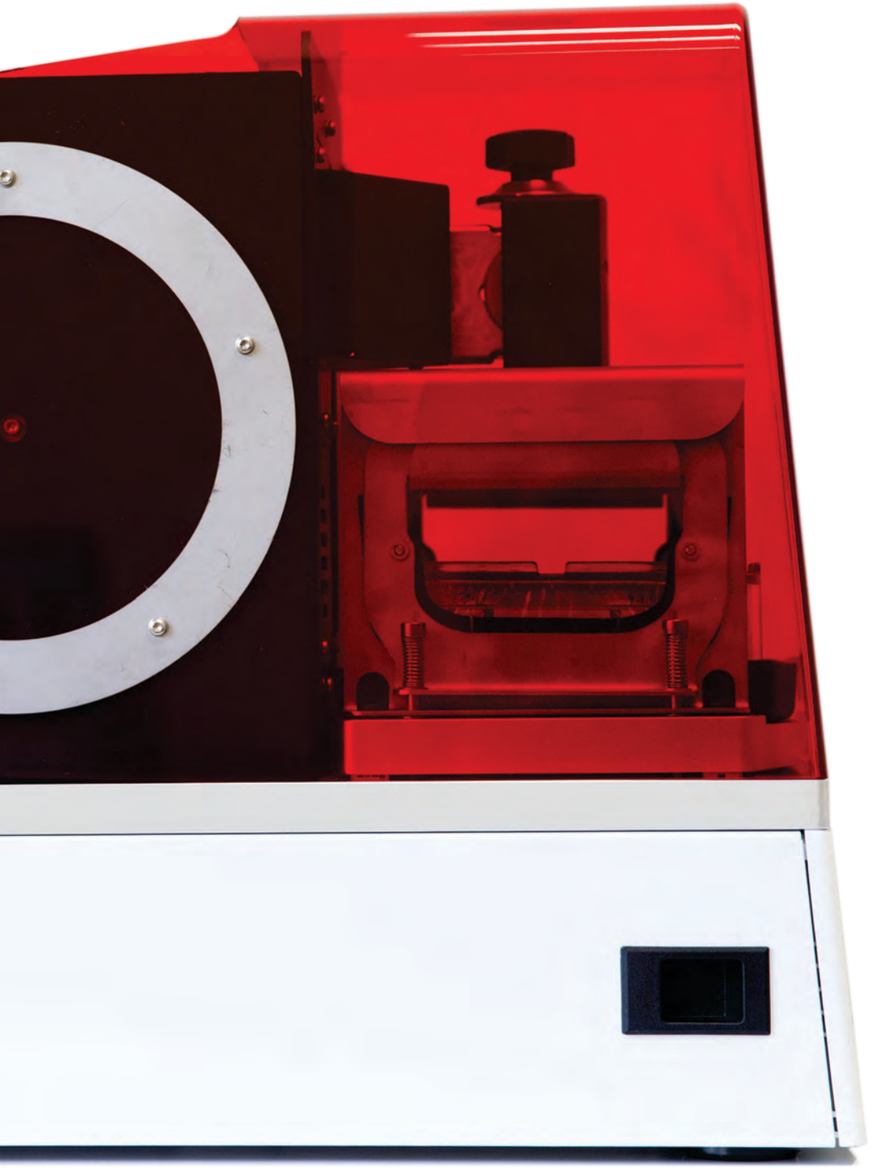

ASIGA®

3D Printers for Dentistry

Repeatable precision for quality assurance and patient safety.

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REG. CODE: PN04994

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.

TESTIMONIALS

What our customers say

"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

“Asiga's high quality and reliability make it a great option for the lab.”

Christopher Kirkland, R&D Technical Analyst, Glidewell Laboratories

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

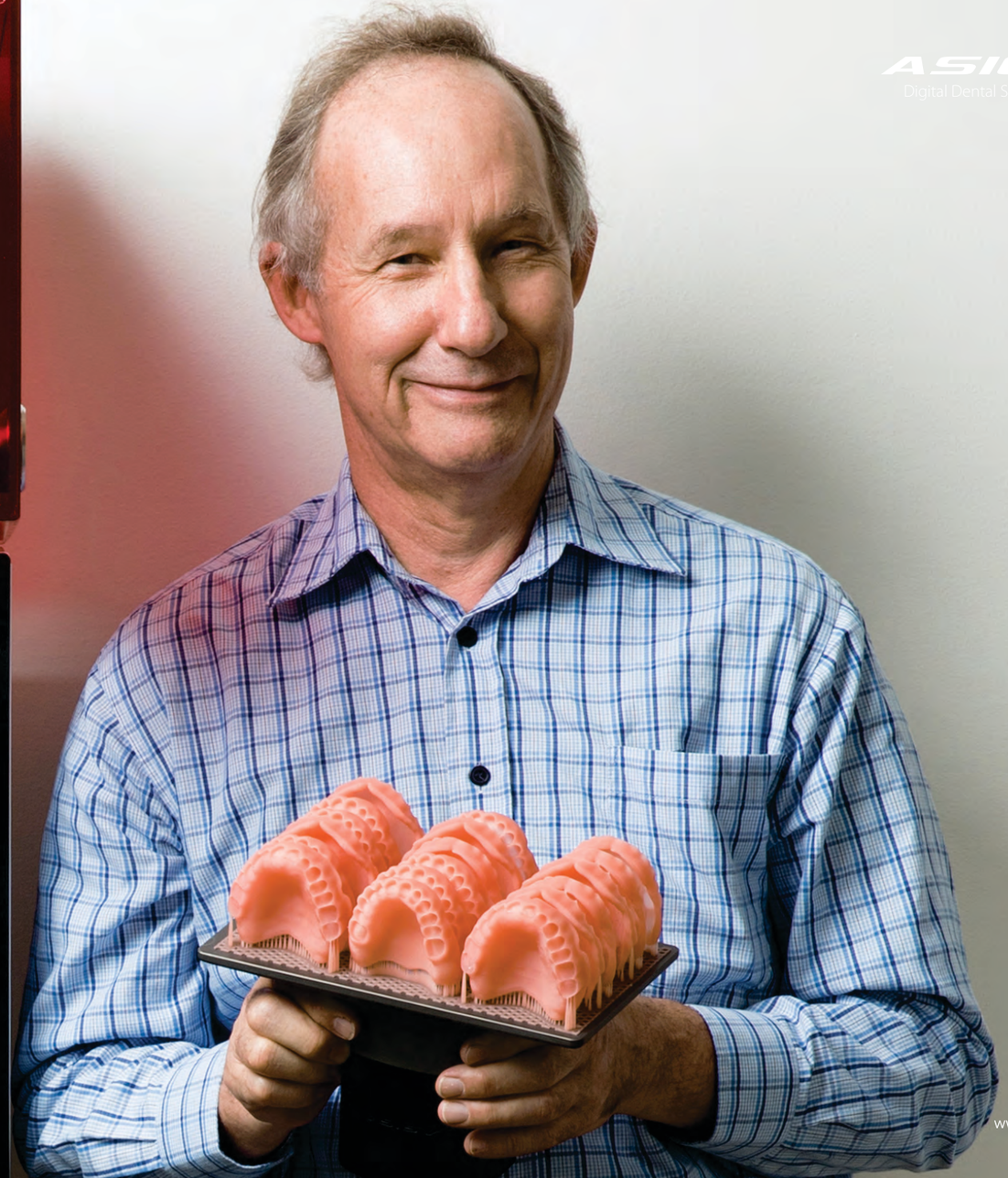
Brad Race, Core3dCentres

"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



ACCURACY STUDY
Validated for dentistry

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.

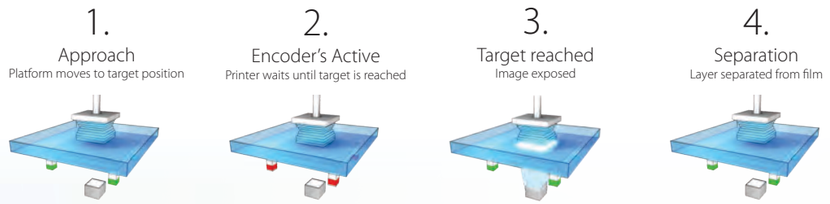
Printed on an Asiga MAX UV in Asiga DentaMODEL, scanned using 3Shape scanner and validated in 3Shape Convince software

# 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

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.



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

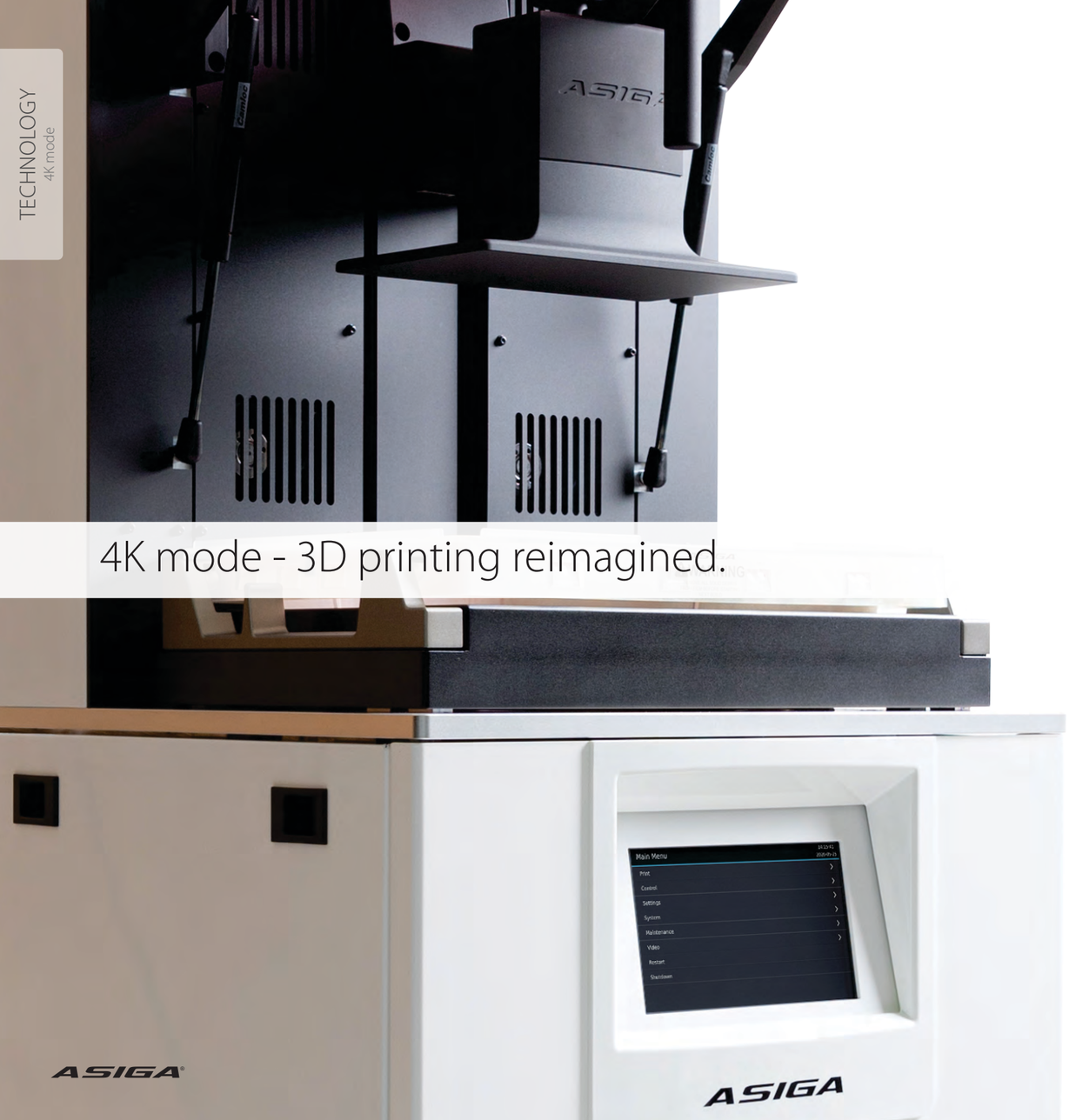
Why 385nm UV LEDs? 3D materials cure faster at deeper UV wavelengths (385nm) reducing XY scattering and over-cure. The result is consistent accuracy, production reliability and the ability to process water-clear materials.

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

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**

PRO 4K

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®
Digital Dental Solutions

Asiga dental 3D printers for the Clinic or Laboratory.

MAX UV

Desktop | Powerful | Compact

PRO 4K

Floor Standing | Powerful | Volume production

ASIGA®
Digital Dental Solutions

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.

Print Speed
60mm/hr

TRUSTED BY DENTAL CLINICS & LABORATORIES WORLDWIDE

PROVEN PERFORMANCE, UNMATCHED BUILD QUALITY

LIFETIME TECHNICAL SUPPORT GUARANTEE

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, 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

ASIGA®
Digital Dental Solutions

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. 4K mode available as standard.

Print Speed
60mm/hr

TRUSTED BY DENTAL CLINICS & LABORATORIES WORLDWIDE

PROVEN PERFORMANCE, UNMATCHED BUILD QUALITY

LIFETIME TECHNICAL SUPPORT GUARANTEE

4K MODE

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 size - 4K mode	46µm	56µm
Pixel size - Native mode	65µm	80µm
Technology	DLP	DLP
LED Wavelength	385nm (high power UV LED)	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, 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 540 x 1370mm / 140 kg 18.3 x 21.2 x 53.9 inches / 309 lb	
Packed sizing	900 × 700 × 1540mm / 205 kg 35.4 × 27.6 × 60.6 inches / 452 lb	
Warranty	12 months manufacturers warranty	
Technical support	Unlimited lifetime technical support included	
Bundle includes	3D printer, 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.

ASIGA
Digital Dental Solutions

Our Open Material System provides compatibility with over 400 materials from many of the world's leading material manufacturers.

Dreve
DETAX
NextDent by Vertex Dental
SCHEU
GC
pro3dure medical
BEGO
Whip Mix
DENTCA CAD/CAM DENTURE
VOCO
keystone industries
dentona NEW WAY DENTAL TECHNOLOGY
SAREMCO
KULZER MITSUI CHEMICALS GROUP

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

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 / 405nm printers

DentaIBT

- 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

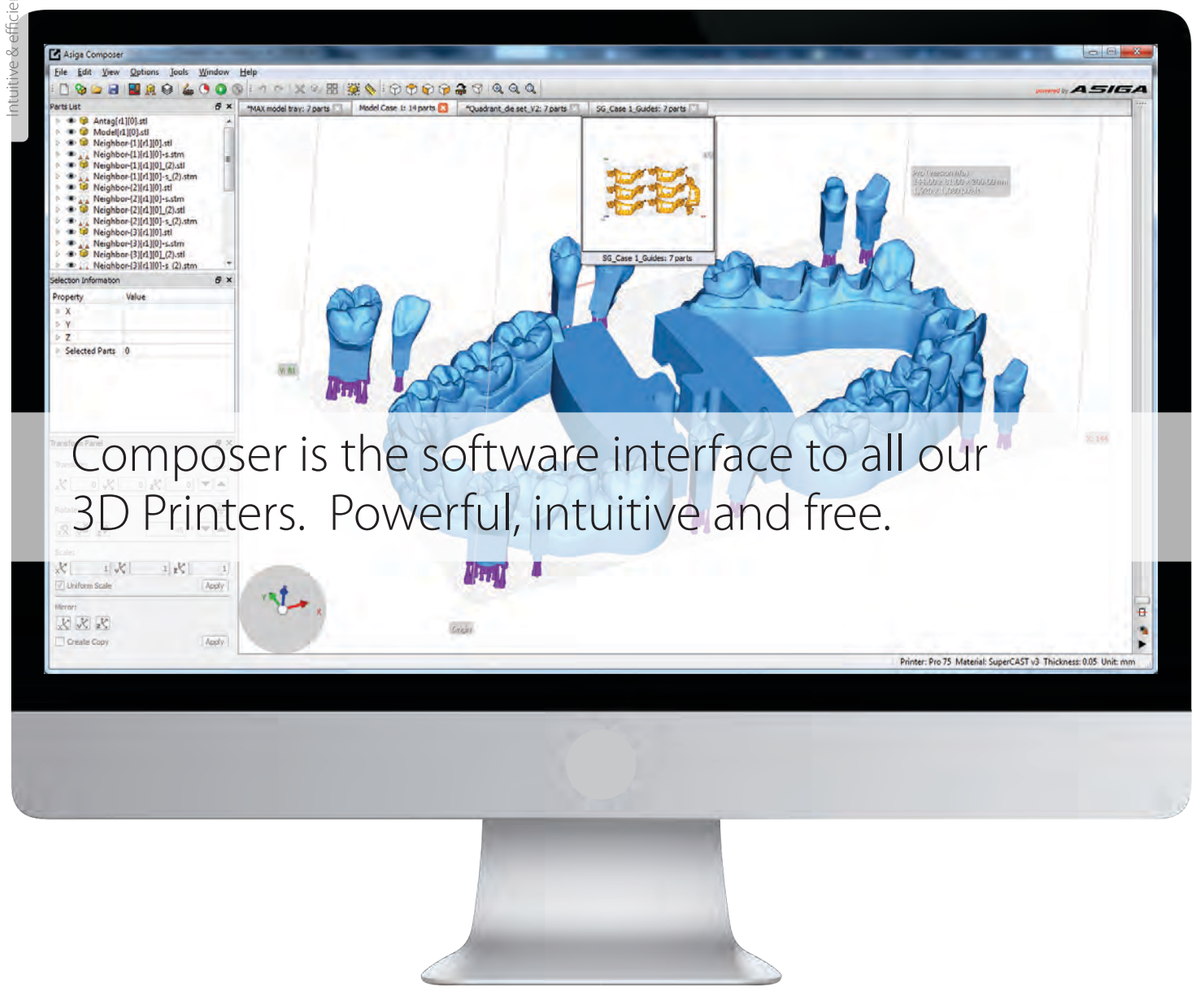
- Denture Teeth *

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

Compatible with:
385nm / 405nm printers

500g bottle
available

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



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

macOS Windows Linux

Seamless integration 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.

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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Cough etiquette
ASIGA