ASIGA®

ASIGA®
www.asiga.com

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
Digital Dental Solutions

GLIDEWELL LABORATORIES

Nobel Biocare™

Race Dental

DIAMOND Denture Studio

RODWELL ORTHODONTIC

"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

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.

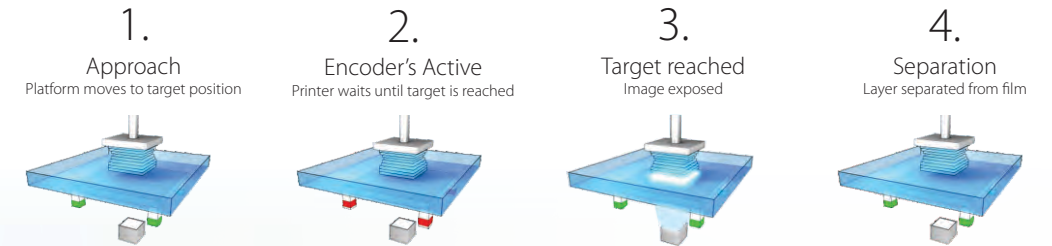| 1.	2.	3.	4.
Approach	Encoder's Active	Target reached	Separation
Platform moves to target position	Printer waits until target is reached	Image exposed	Layer separated from film

Our Process Monitoring Technologies explained. These technologies ensure every layer is formed accurately resulting in a reliable output for quality assurance and patient safety.

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.

ASIGA®
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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

Our end user features.
3D printing made intuitive and simple.

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Asiga dental 3D printers.

MAX
Series

MAX LCD

MAX UV
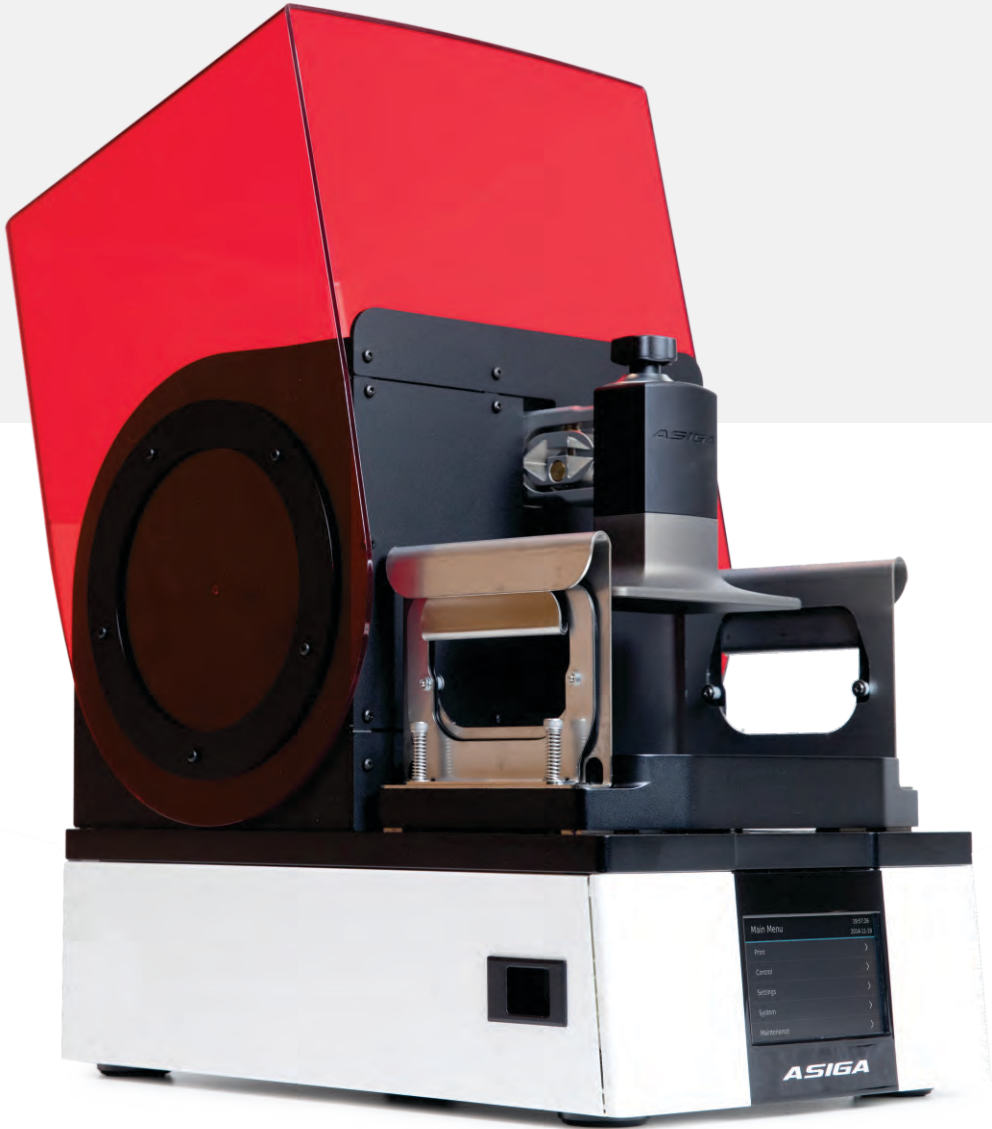
PRO
Series

PRO HD

PRO 4K

ASIGA®

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MAX LCD

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

TRUSTED BY
DENTAL CLINICS &
LABORATORIES
WORLDWIDE

PROVEN
PERFORMANCE,
UNMATCHED
BUILD QUALITY

LIFETIME
TECHNICAL
SUPPORT
GUARANTEE

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

ASIGA®

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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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PROVEN
PERFORMANCE,
UNMATCHED
BUILD QUALITY

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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)
	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, 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

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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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PROVEN PERFORMANCE, UNMATCHED BUILD QUALITY

LIFETIME TECHNICAL SUPPORT GUARANTEE

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

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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DENTAL CLINICS &
LABORATORIES
WORLDWIDE

PROVEN
PERFORMANCE,
UNMATCHED
BUILD QUALITY

LIFETIME
TECHNICAL
SUPPORT
GUARANTEE

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

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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

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

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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

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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OPEN MATERIALS
Compatible with leading brands

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

Dreve

DETAX

Next Dent
by Vertex Dental

Whip Mix

DENTCA
CAD/CAM DENTURE

SCHEU

GC

pro3dure
medical

keystone
industries

dentona
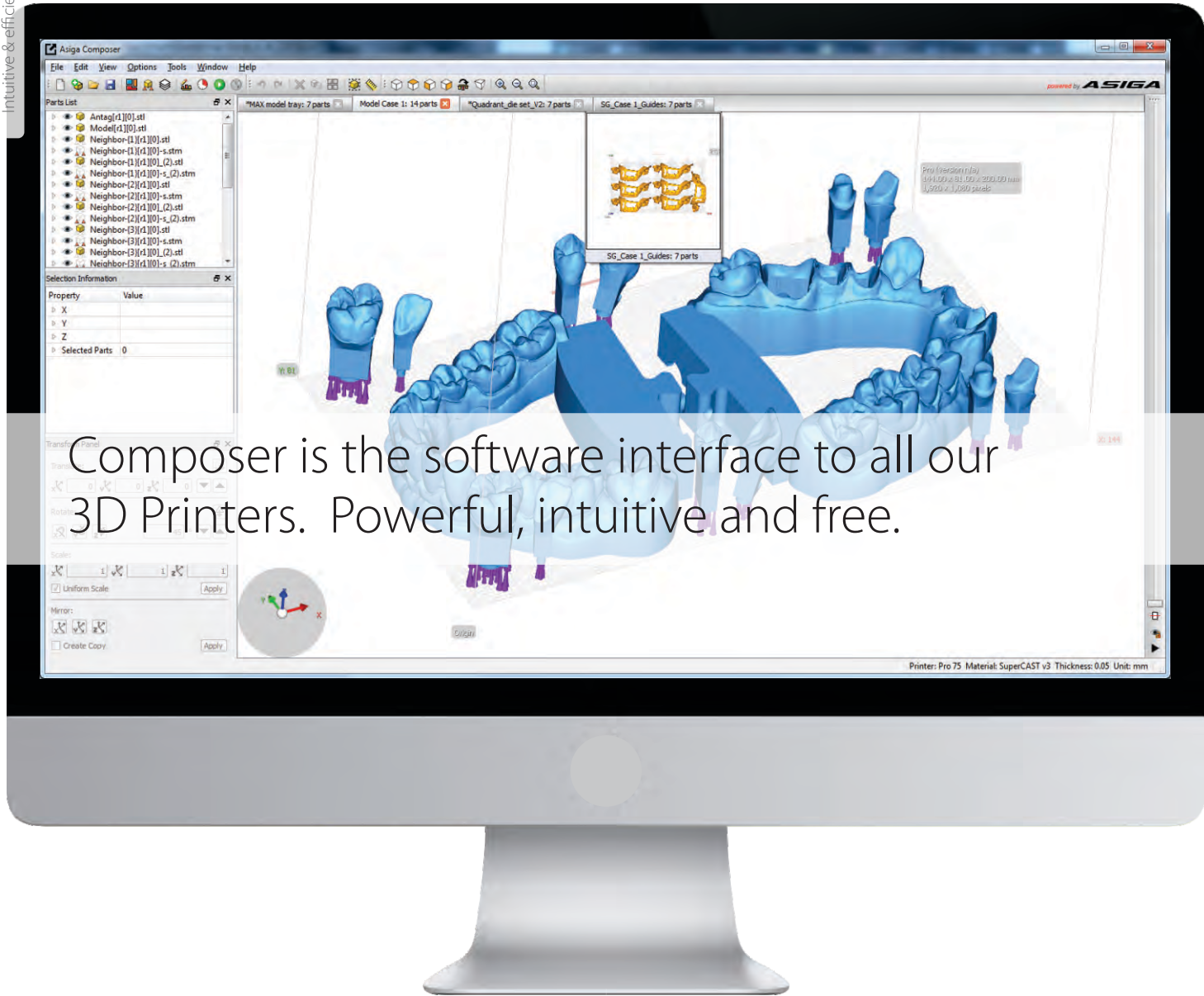NEW WAY DENTAL TECHNOLOGY

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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

macOS   Windows   Linux

ASIGA®

SCAN / DESIGN
Compatible with leading brands

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

MEDIT

3shape▷

exocad

dental wings

SCHEU

smart optics

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

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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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Affordable Digital Manufacturing, it's something Asiga invented.

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