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DENTAL

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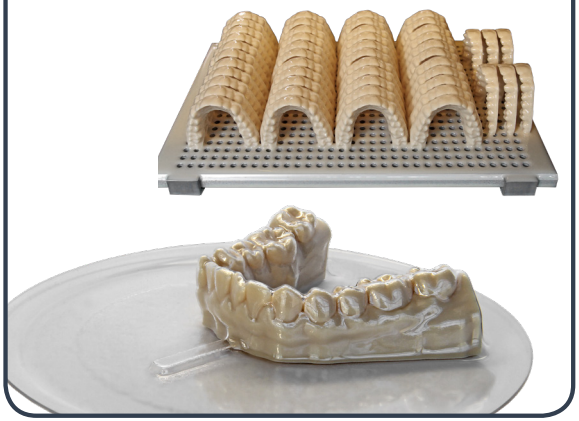
Digital Dentistry in Action

EnvisionTEC 3D printers are known for accuracy, surface finish, reliability and speed. Our machines also deliver extreme flexibility with the power to print multiple materials.a

Models



Castables

Restorations

Appliances

envisionOne
Settings
Job List

NEW Envision One cDLM Dental

- Blazing fast - 6 orthodontic arch models in under 15 minutes, 10 dentures in under an hour
- Our easiest-to-use yet software interface
- Layerless technology delivers super smooth models
- 75% less supports compared to regular DLP printers
- Domeless technology delivers the highest accuracy in Z
- High-resolution industrial projector with glass UV optics

Machine Specification:	Envision One cDLM Dental
Maximum Building envelope:	180 x 101 x 85 mm*
Voxel** resolution in X & Y:	93 µm
Dynamic Voxel Resolution in Z:	25 - 150 µm***
Footprint:	39 x 43 x 64 cm
Electrical Requirement:	110/220 VAC 50/60 HZ 5A

System specifications are subject to change without notice.
* Deviation of +/- 2mm possible. ** A voxel is a volumetric pixel.
*** Pre-Adjusted by each material module and material dependent.

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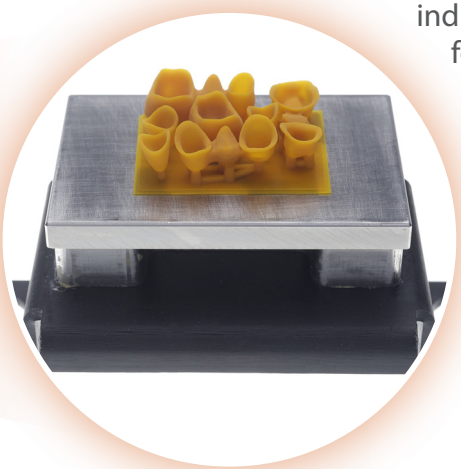
Vida / Vida HD



- 3D prints orthodontic models, partials, surgical guides, indirect bonding trays, crown and bridge models, waxups for crown and bridge applications, and bite guards
- Prints a variety of different materials for maximum versatility and productivity
- Any STL file of a model designed from an impression or an Intra Oral Scanner can be printed
- Changeover between materials is quick and easy with no waste
- Compatible with leading design software
- Long life LED light source with zero maintenance and very low acquisition cost

Machine Specification:	Vida	Vida HD
Build Envelope* :	140 x 79 x 100 mm	96 x 54 x 100 mm
Native Pixel Resolution X / Y:	73 µm	50 µm
Dynamic Voxel** Resolution in Z*** :	25 µm to 150 µm	
Footprint:	39.5 x 35.0 x 82.6 cm	
Weight Approx:	34 kg	
Electrical Requirement:	110 VAC @ 3A	

System specifications are subject to change without notice.
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***Pre-Adjusted by each material module and material dependent.

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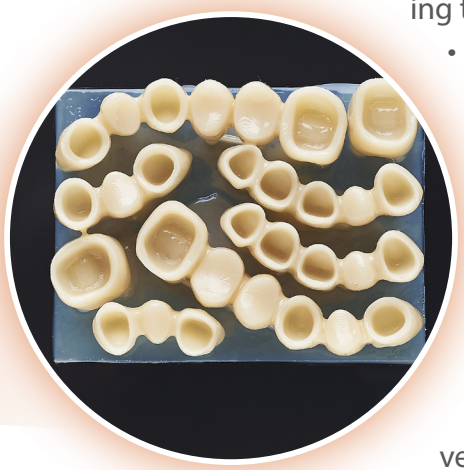
Micro Plus XL



- 3D prints orthodontic models, surgical guides, indirect bonding trays, corwn and bridge models, bite guards and more
- Prints at least 10 different materials for maximum versatility
- Any STL file of a model designed from an impression or an intra oral scanner can be printed
- Changeover between materials is quick and easy with no waste
- Compatible with leading dental and orthodontic design software
- Can be operated unattended with maximum reliability
- Long life LED light source with zero maintenance and very low acquisition cost

Machine Specification:	Micro Plus XL
Maximum Build Envelope:	120 x 74 x 85 mm*
Native Voxel Size in XY	82 µm X / 105 µm Y
Dynamic Voxel** Resolution in Z:	25 - 75 µm***
Footprint:	22.86 x 24.13 x 66.04 cm
Weight Approx:	16 kg
Electrical Requirement:	110 VAC @ 3A

System specifications are subject to change without notice.
* Deviation of +/- 2mm possible. **A voxel is volumetric pixel.
*** Pre-Adjusted by each material module and material dependent.

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Vida cDLM / Vida HD cDLM

- High-speed continuous 3D printer using EnvisionTEC's patented Continuous Digital Light Manufacturing (cDLM) technology
- Reduced need for support structures during build allows for minimal finishing requirements
- Capable of printing partials, crown and bridge casting applications and more.
- Long life LED light source with zero maintenance and very low acquisition cost
- Any STL file of a model designed from an impression or an intra oral scanner can be printed
- Compatible with leading design software for digital dentistry

Machine Specification:	Vida cDLM	Vida HD cDLM
Build Envelope* :	145 x 81 x 100 mm	90 x 50 x 100 mm
Native Pixel Resolution:	73 µm	50 µm
Dynamic Voxel** Resolution in Z :	25 µm to 150 µm	
Footprint:	39.5 x 35.0 x 78.7 cm	
Weight Approx:	34 kg	
Electrical Requirement:	110 VAC @ 3A	

System specifications are subject to change without notice.
*Deviation of +/- 2mm possible. **A voxel is volumetric pixel.
***Pre-Adjusted by each material module and material dependent.

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P4K

NEW Perfactory P4K Series

- New LED-powered variations also availablefor greater cost and energy savings
- Low cost, user-friendly 3D printer offering ease of maintenance and outstanding reliability
- Produces finest detail in the shortest period of time
- Can print up to 95 units such as coping and crowns or multiple unit bridges in less than 1 hour 45 minutes

Machine Specification:

	P4K 62	P4K 75	P4K 90
Build Envelope*:	160 x 100 x 200 mm	192 x 120 x 200 mm	230 x 143,75 x 200 mm
Projector Resolution:	2560 x 1600 (WQXGA)		
Native Voxel** Size XY:	60 µm	83 µm	90 µm
Voxel Resolution in Z:	25 - 150 µm***		
Footprint:	73 x 48 x 135 cm		73 x 48 x 150 cm
Weight Approx:	85 kg		93 kg
Electrical Requirement:	100 - 120 V, 5.4 Amp or 220-240V, 2.4 Amp		

System specifications are subject to change without notice.
*Deviation of +/- 2mm possible. **A voxel is volumetric pixel.
***Pre-Adjusted by each material module and material dependent.

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XTREME 3SP
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XEDE 3SP
envisionTEC
VECTOR 3SP

3SP Ortho

- The ortho models of the Vector, Xtreme and Xede 3SP printers use patented EnvisionTEC Scan, Spin, and Selectively Photocure (3SP®) Technology and feature larger build envelopes for high-production facilities

- Simple user interface with built-in touch screen and low part cost due to minimal material waste

- Low maintenance technology for reliable daily production

Machine Specification:

	Xede	Xtreme	Vector
Maximum Build Envelope:	457 x 457 x 457 mm	254 x 362 x 330 mm	300 x 200 x 275 mm
Resolution in X & Y:	100 µm	100 µm	100 µm
Voxel** Resolution in Z:	50 - 100 µm***	50 - 100 µm***	50 - 100 µm
Footprint:	178 x 190 x 165 cm	165 x 165 x 165 cm	74 x 76 x 117 cm
Electrical Requirement:	110-120/220-240 VAC, single-phase, 15 A.		

System specifications are subject to change without notice.
* Deviation of +/- 2mm possible. **A voxel is volumetric pixel.
*** Pre-Adjusted by each material module and material dependent.

Industry-Leading Dental Portfolio

D P C

E-Dent 100/400 is the optimal material for the direct printing of crown, bridge and full roundhouse temporary restorations. This material can be characterized.

FDA approved and CE class IIa

D P C

E-Denture natural looking denture base material has low shrinkage, allowing for exceptional fit when producing removable denture bases.

FDA approved and CE class IIa

D P C

E-Guard is a biocompatible, transparent material for the production of accurate bite splints, night guards and retainers.

FDA approved and CE class IIa

D P C

E-Guide Tint is a material ideal for the production of accurate drill guides used in implant surgery.

FDA approved and CE class 1

D P

E-Gum is a flexible material that simulates the patient's gum in flexible gingiva masks for the successful restoration of implants.

D P C

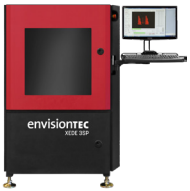
E-IDB is a new material for the production of indirect bonding trays for quick and accurate placement of brackets.

FDA approved and CE class 1

D Desktop
Micro
Vida

P Perfactory
P4K 62
P4K 75
P4K 90

3 3SP
Vector 3SP
3Dent 3SP
Xtreme 3SP
Xede 3SP



C cDLM
Micro cDLM
Vida cDLM
Envision One cDLM

C D P 3

E-Model Light is the most versatile model material on the market. It is ideal for high precision crown and bridge models as well as orthodontic models for use with vacuum forming, spray-on, doughing and soldered methods of appliance fabrication.

D P

E-Partial is a castable material suitable for use in the production of crowns and partial denture frameworks for direct investment casting in semi-precious metals. It's high flexural strength ensures clasp flex without breakage.

C

PIC 100 C is a specialized castable formula for use with cDLM technology to create high quality copings, crowns, bridges and partial denture frameworks.

D P C

Press-E-Cast produces highly accurate castable wax copings, crowns and bridges with thin walls for a tight fit. It is ideal for using a rapid burnout when casting or it can also be used for pressed ceramic restoration preparation techniques.

D P 3

E-SepFree can be used to produce high-resolution models that are both easy to carve and can also be used for to build orthodontic appliances without the need for a separator.

D P 3

E-Denstone is a material developed specifically for the rapid production of highly accurate, scannable dental models. It produces models that look and feel similar to traditional gypsum models.

Flexible 3D Printers

EnvisionTEC 3D printers are optimized to print a variety of materials representing a broad portfolio of dental and orthodontic applications. We are also in constant communication with the R&D teams of the most recognized dental software companies to ensure a seamless workflow that delivers consistent manufacturing quality. Whether using 3Shape CAMbridge™ or DWOS-RPM from Dental Wings, automatic preparation is optimized for all EnvisionTEC printers.

From optimal placement to orientation to support generation, job creation is one click away. Identification tags may be automatically placed next to each item to minimize processing after printing. Design parameters in 3Shape and Dental Wings have been optimized to deliver a set of Standard Operating Parameters that are application-specific and provided upon request.

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