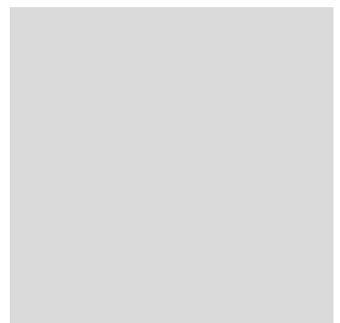


envisionTEC



Leading global provider of professional grade 3D Printers



Highest performance

The diversity of additive manufacturing demands for specialists in the dental world who develop user-friendly software and hardware in an increasingly complex environment. This includes **envisionTEC**. The company has been present on the international market with 3D printing solutions since 2002 and is one of the leading global players. You can choose from various **envisionTEC** printers for dental applications. The envisionOne desktop printer is “handy and powerful”: It combines the advantages of

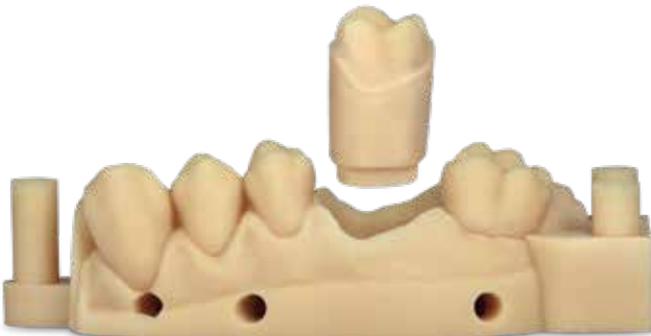
a compact 3D printer with real productivity. The envisionOne is a superlative desktop system. The D4K Pro is the world's first desktop printer to be equipped with a 4K DLP projector. The entire range of **optiprint** premium resins is available to users of the **envisionTec** printers. The perfect coordination of material and machine ensures that you will always achieve consistently precise printing results.



> The first 4K desktop printer

D4K PRO

The **D4K Pro** is the world's first desktop printer equipped with a 4K DLP projector. The resulting very high accuracy, combined with an adequate platform size allow the Desktop printer to be a highly suitable solution for every size labs.

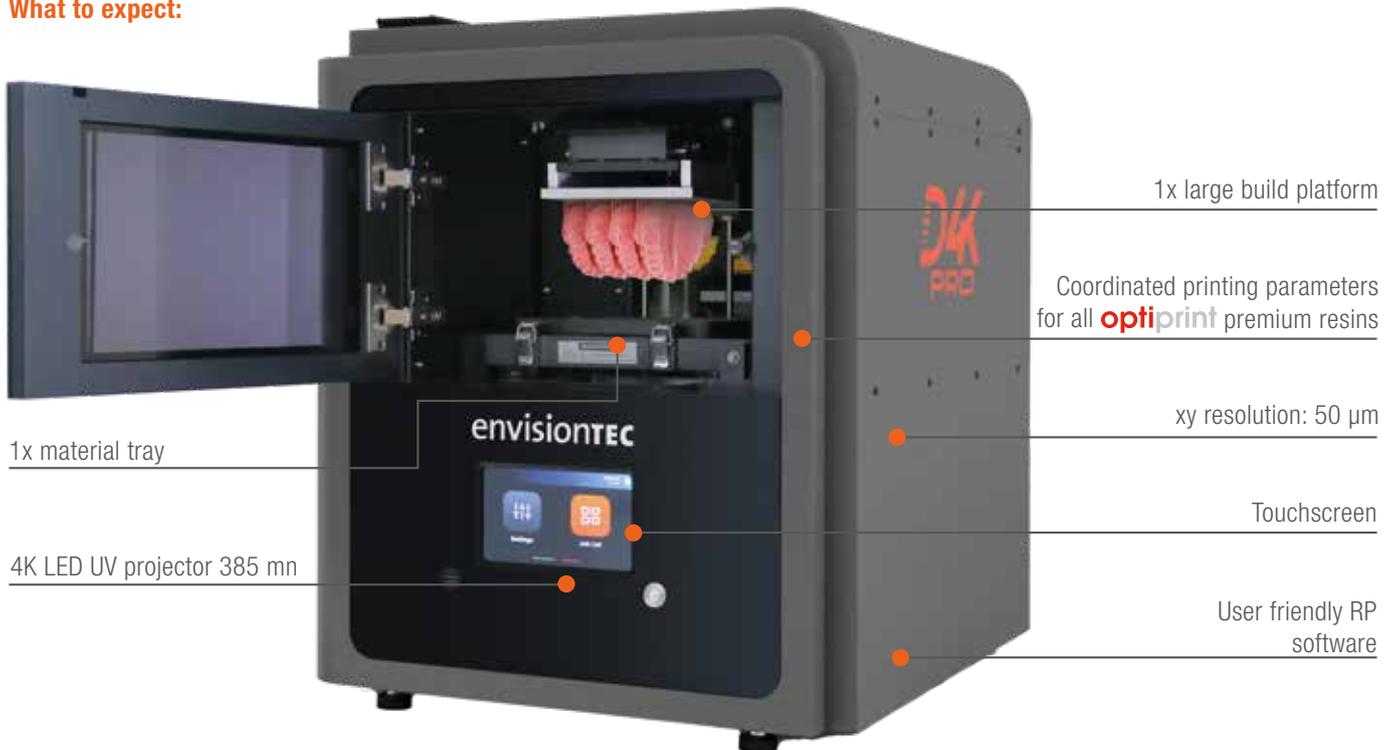


Die models with a perfect fit and friction

The device was especially designed for the production of saw, die and implant models with the focus on precision and perfect friction in addition to the construction size.

The performance of the **D4K Pro** is based on a 4K DLP projector for industrial use, which guarantees the user many years of stability concerning results and reliability of the device. The **D4K Pro** is suitable not only for the production of high-precision dental models but also all other dental applications such as denture bases, temporaries, etc. The printing of individual impression trays works perfectly due to the possible construction height of 110 mm. The installed 385 nm LED ensures unadulterated results when printing clear-transparent 3D resins for splints and implant drill guides.

What to expect:



Special features

- 4K technology provides extremely accurate form parts
- High-resolution industrial projector with UV glass optics
- User-friendly RP software for e.g. automatic support generation
- LED light source with a wavelength of 385nm ensuring aesthetic results with clear materials

> Technical specifications



Pixel size X, Y	50 µm
Installation space X, Y, Z	148 x 83 x 110 mm*
Light source	LED UV 385nm

Resolution in Z	1 µm
Material wavelength	385 nm
Data format	STL
Software	envisionOne RP
Network compatibility	Ethernet
Connection	USB
Areas of application	Medical technology, Dental technology
Machine size	500 x 570 x 590 mm
Power	110/220 VAC 50/60 HZ 5A
Weight	56 kg

* The maximum build height can vary

> Quality assurance in the process chain

optiprint[®] premium resins

Germany's favorite 3D Resin

When using the **D4K Pro**, the entire range of **optiprint** premium resins is available to the user. For years the **optiprint** range has been the benchmark among additive resins for 3D printing technology. Due to the perfect coordination of material and machine, the user of the **D4K Pro** is ensured of always achieving consistently precise printing results.



optiprint laviva



optiprint model align



optiprint model



optiprint IBT



optiprint clara



optiprint guide



optiprint zero



optiprint gingiva / **optiprint** lumina



optiprint tray

> The first 3D desktop device



Developed by one of the most experienced teams in 3D printing industry, the envisionOne impresses with its production-oriented platform size and very high printing speed. The associated increase in efficiency in the work process of manufacturing companies is enormous. This is how a superlative desktop system emerged. The versatility of the different material options will make this power machine unrivaled among desktop units.

Due to the attractive conditions this first 3D desktop device offers every dental laboratory the work efficiency of a service provider. Perfectly adapted to the 3D printing of dental applications, e.g. models and full dentures, the envisionOne is able to print e.g. 6 orthodontic models in less than 15 minutes.



Included:

1x large build platform

2x material trays

Oxygen generator

LED UV projector 385 nm

This awaits you:

Perfectly matched to **optiprint** premium resins

Resolution: 93 μm

Touch screen

envision**One** software



Special features

- Reduced-layer technology provides extremely smooth models
- 75% fewer support structures, saving material and effort
- Double slide rails guarantee the highest stability level of the build platform during the printing process
- Highest precision in Z thanks to domeless technology
- High-resolution industrial projector with UV glass optics
- LED light source with a wavelength of 385 nm, for higher precision with clear materials and breathtaking attention to detail

> Technical specifications



Pixel size X, Y	93 µm
Installation space X, Y, Z	180 x 101 x 175 mm*
Light source	LED UV 385nm

Resolution in Z	25–150 µm
Material wavelength	385 nm
Data format	STL
Software	envisionOne RP
Network compatibility	WiFi & Ethernet
Connection	2x USB
Areas of application	Medical technology, Dental technology
Machine size	391 x 430 x 636 mm
Machine weight	32 kg
Power	110/220 VAC 50/60 HZ 5A

* The maximum build height can vary

> Quality assurance in the process chain

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optiprint tray

> Order information

Illustration	Item	Item No.
	<p>D4K-PRO 148 x 83 x 115</p>	<p>40845</p>
	<p>D4K-PRO Dental Tray</p>	<p>40844</p>
	<p>envisionOne 180 x 101 x 175</p>	<p>40840</p>
	<p>Basic material tray for envisionOne</p>	<p>40841</p>
	<p>Repair of material tray for envisionOne</p>	<p>40842</p>

> Controlled polymerization

Otoflash G171

Flash unit with protective gas connection



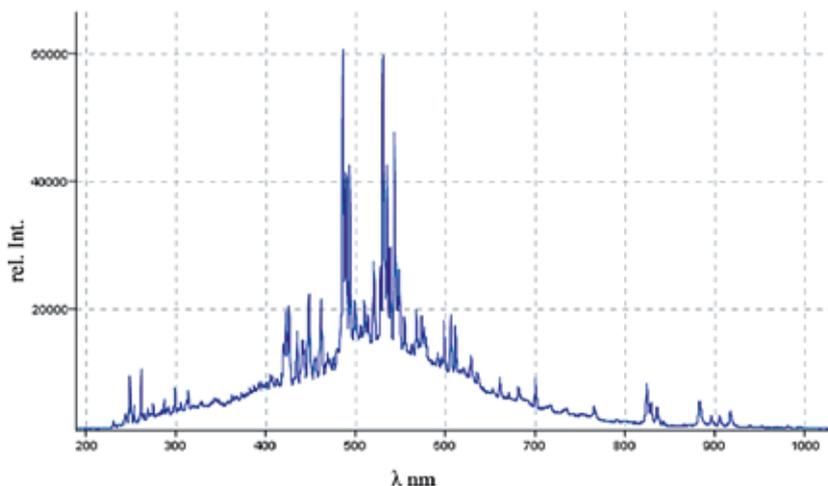
The very powerful universal polymerization device is equipped with a shielding gas connection avoiding the oxygen inhibition on the surfaces.

The user receives adhesive-free components after the printing process, the removal of the inhibition layer is no longer applicable. To ensure biocompatibility and optimal post-polymerization, dentona provides individual application recommendations for their **optiprint** premium resins and the device.

Technical specifications

Size of the polymerization space	120 x 120 x 50 mm
Number of light sources	2 flash lamps of 100 W each
Nominal voltage	100, 117, 230 Volt AC, switchable
Nominal frequency	50 / 60 Hz
Power consumption	250 W
Spectral distribution	280-700 nm, maximum between 400 and 500 nm
Dissipated power	200 W
Flash rate	10 flashes per second
Digital timer	adjustable from 1 to 9,999 flashes
Dimensions	310 x 310 x 140 mm
Weight	appr. 7 kg

> Ensuring MDR conformity



The device enables the photopolymerization of all light-curing materials in the wavelength range 280-580 nm and thus allows the creation and processing of light-curing materials of different consistency and pigmentation as well as the implementation of repair work with corresponding materials without any problems. Due to its technical features, the Otoflash G171 achieves particularly short curing times. Two flash lamps arranged at the bottom generate 10 very intense flashes of light every second in the wavelength range of 280-580 nm in

working mode. Compared to other devices, this results in a qualitatively much better curing of the materials with very good physical properties and a reduced residual monomer content.

