

2019

**VERSUS** DLP 385NM WITH INTERNAL RADIOMETER  
**3D PRINTER**  
FOR DENTAL & AUDIOLOGY INDUSTRIES

**V E R S U S**  
**385**



EXPERIMENTA  
**2018 AWARD**  
INDUSTRIAL DESIGN

## DESIGNED FOR REPEATABILITY

We know that within certain sectors, such as dental or scientific research, not only precision but also predictability and repeatability are essential, and although we often find 3D printers in the market that are capable of achieving good results, we find the problem that these results are not always repeatable due to the large number of variables that can affect the success of an impression such as the orientation, its location in the tray, the correct generation of the supports, the ambient temperature and most importantly, the small deformations caused by an optical module that is not up to the demands or a poor mechanical design.



# AMAZING RESOLUTION & ACCURACY

## 65 MICRONS XY

Thanks to its Solid State light engine and FullHD (1920×1080 px) DLP projector, the new Microlay Versus Dental 3D Printer is able to print to an amazing resolution of 65 microns in the horizontal XY plane and 50 microns in the vertical Z plane (up to 10 microns).

The degree of detail and reliability is astonishing and the surface finish is simply spectacular.



## FULLHD UV LED LIGHT ENGINE

In order to maintain optimum printing quality, it is necessary to supply exactly the same amount of UV energy dosis on each layer. Other printers in the market that include LED projectors are not able to keep this constant energy throughout the same print, causing surface irregularities and artifacts. In addition, within some hours of use, the LEDs tend to lose intensity, needing constant adjustments in the material profiles.

Thanks to its internal radiometer the Microlay Versus is able to auto calibrate the amount of energy not only before each print but also before each layer in less than one second, guaranteeing accuracy over the same print and also over the years (up to 50,000 hours lifespan)

<b>Printing volume</b>	125x70x180mm
<b>XY resolution</b>	65 $\mu$ m
<b>Maximum Z resolution</b>	1 $\mu$ m
<b>UV light calibration</b>	Automatic UV power calibration before each print
<b>Light Source</b>	385nm UV LED
<b>Compatible materials</b>	Open to third party materials Detax, Dreve, NextDent, Dentona, Funtodo, (biocompatible ClassII)
<b>Compatible file formats</b>	STL, SLC y ZIP (with png images)
<b>Software</b>	Print Studio
<b>Connectivity</b>	Wifi y Ethernet, USB flash drive
<b>Dimensions</b>	350 mm x 424 mm x 624 mm
<b>Weight</b>	65kg
<b>Power</b>	12VDC 11.5A / 140W

## TEMPERATURE CONTROL

We have heated the printing chamber using hot air by convection, this way we managed to create the optimum microclimate for each resin, reducing its viscosity and reproducing a controlled environment that ease the repeatability.

## OPEN MATERIALS POLICY

The UV light source guarantees compatibility with most of the dental resins in the market, including white and clear resins which are problematic with other printers with visible light projectors.



## GET IN TOUCH

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