



PL7

Integrated light source LCD 3D printer
for dentistry

LCD

Integral Light Source

8

8x Anti-aliasing

ACF

ACF-3D Nano-release



Automatic air purification

· Digital & Intelligent 3D Printing Solutions

PL7 is DEPRAG focus on dental digital & intelligence needs to create a new integrated LCD light curing 3D printer, the equipment design using high-precision technology and materials, both DLP 3D printer technology and LCD 3D printer technology advantages, can meet the needs of dental ultra-wide 3D printing, is the first choice for the performance of LCD light curing 3D printer.



Oral Scan



Treatment Plan Design



Printing



Cleaning and Curing



Delivery

Saving time costs, material costs, labor costs, PL7 and its perfect partners will provide you with a practical, efficient and ideal digital & intelligent solution for your dental 3D printing.



Applications

- Fixed Restoration

Temporary Crown	Inlay	Veneer	Temporary Crown Bridge
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- Implants

Tooth-supported Surgical Guide	Bone-supported Surgical Guide	Temporary Denture
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Mucosa-supported Surgical Guide

- Orthodontics

Record keeping dental model	Water-washed orthodontic dental model
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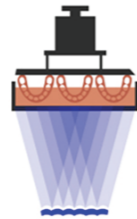


Up to 95% light uniformity, no need for frequent light source changes

The Integral LCD light source solves the problem of poor light uniformity of traditional matrix LCD light sources, the PL7 offering up to 95% light uniformity thus PL7 has more accurate printing results. In addition, the technology increases the life of the light source significantly, eliminating the need for frequent light source replacement.



Integral light source:
 Longer service life
 Advantages of both LCD and DLP
 High performance cost ratio



Conventional LCD matrix light sources:
 Poor light uniformity
 Frequent light source changes
 Lower printing accuracy and efficiency

For accurate and efficient printing

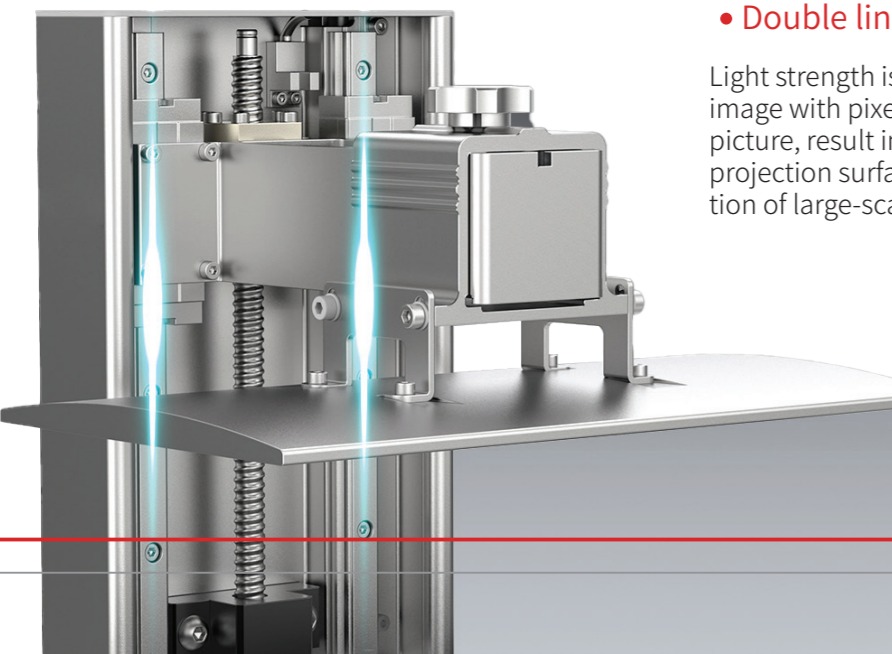
• ACF-3D Nano-release Technology

Innovative ACF-3D Nano-release technology which greatly reduces the resistance when draft the mold, Improve the print speed and the accuracy. Its surface is smoother and tighter, which can better resist the influence of tensile force, and meet the needs of dental personalized high-precision production.



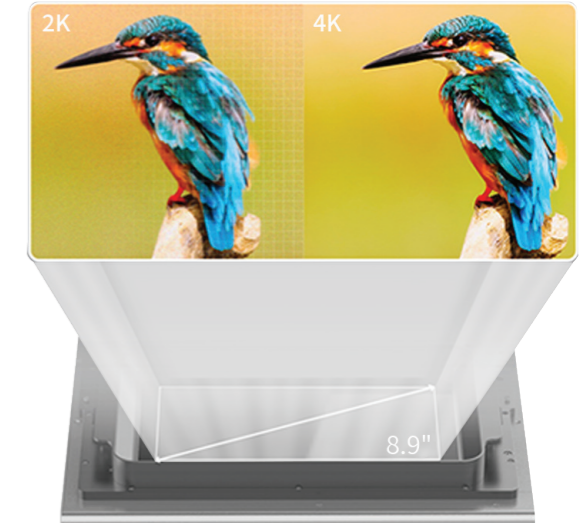
• Double linear guide rail + roller screw

Light strength is controlled by layer after layer, plus fine-tune the image with pixel-by-pixel compensation by the compensation picture, result in uniform distribution of light intensity on the projection surface, thus ensuring the stable and efficient production of large-scale terminal mold products .



• 8.9 inch B&W LCD Screen

Large-size and new black and white monochrome imaging display technology, 4K HD resolution, higher light transmittance than ordinary color LCD screen, higher service life, faster printing speed.



• 8x Anti-aliasing + Sub-pixel Compensation Algorithm

The self-developed sub-pixel compensation algorithm can make the mold have a smoother surface quality and have a more stable printing accuracy than the traditional LCD algorithm.



Traditional machine



PL7



A more comfortable working environment

PL7 is equipped with a new built-in air purification system, which can purifies odors produced by unformed resin consumables during the printing process, ensure the safety of work, and provide a comfortable working environment.



DEPRAG 3D BOX

Self-developed slicing software DEPRAG 3D BOX, is simple and convenient to operate, easy to use.



Light Curing & Cleaning Integrated Machine

The innovative design of DEPRAG's light curing and cleaning integrated machine, realizes the streamlined upgrade of cleaning and secondary curing steps, which is more convenient and quicker, and saves you a variety of hidden costs.



Resin Consumables



- ✓ After forming tasteless, smooth surface
- ✓ The hardness is better than most resin material in the market, not easy to deform, easy to store.

Release Film

The ACF release film has a relatively ideal service life and can be replaced within 5 minutes.

Product Parameter

PL7

Compatible Resin	405nm wavelength photosensitive resin, compatible with third-party resins
Printing Size	192*120*100mm
Resolution	3840*2400pixels
Touch Screen	5 inch color screen
Anti-Aliasing	8x Anti-Aliasing
Z axis type	Double linear guide + ball screw
printing speed	1-4S/layer, 60mm/h
Print layer thickness	0.025mm-0.1mm
XY axis accuracy	50μm
Rated power	250W
Equipment Size	432*292*456mm
Equipment weight	19KG



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