



LuxCreo Lux 3D+ Leading Photo-Curing 3D Printer in Dental Applications

Lux 3D+



LuxCreo Lux 3D+ is a 3D printer for dental applications, developed by a top-notch R&D team composed of members from Tsinghua, Harvard, Cambridge, Georgia Tech. and North Carolina State Universities. Lux 3D+ is designed for rapid and accurate mass production of dental models, guides and splints used by dental laboratories or dental clinics.

Equipped with LEAP™ high-speed separation technology and series of dental resins, LuxCreo has pioneered industrial dental solutions to meet needs of customization, streamlined dental product production, and more complete and economical clinical solutions for dentists and dental technicians.

SYSTEM SPECIFICATIONS

Build Volume (XYZ)	293 x 165 x 200 mm (11.5 x 6.5 x 7.9 in)
Resolution	3840 x 2160 ppi
Wavelength	405 nm
Printing Speed	Printing of a plate full of dental arches with DMR III @ 50 mm/h
3D Printer Crated(WxDxH)	1070 x 1120 x 2080 mm (42 x 44 x 82 in)
3D Printer Uncrated(WxDxH)	850 x 780 x 1870 mm (33 x 31 x 74 in)
3D Printer Door Open(WxDxH)	850 x 780 x 2420 mm (33 x 31 x 95 in)
3D Printer Crated Weight	500 kg (1102 lbs)
3D Printer Uncrated Weight	400 kg (882 lbs)
Certifications	CE
Warranty	12 months manufacturer's warranty included Extended warranty options available

SUGGESTED OPERATING ENVIRONMENT

Temperature	22-26 °C (72-79 °F)
Humidity (RH)	≤40%
Power	100-240 VAC, 50/60 Hz, 500/1500 W (printing / heating power)

MEMBRANE

Compatible Membrane	LEAP
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MATERIALS

Compatible Materials	DMR III, DSG 07, DNG 06, KeySplint Soft
Material Packaging	Material dependent

SOFTWARE AND NETWORK

Software	LuxFlow
Connectivity	USB / Ethernet / WiFi

MINIMUM CONFIGURATION

Operating System	Windows 10 64-bit operating system
CPU	Core i7 CPU@2.40GHz
Memory	16GB
Graphics Card	NVIDIA GeForce GTX 1650Discrete graphics card
HD	HDD 500G

Case Study

LuxCreo has developed series of dental resins and pioneered industrial dental solutions to meet the needs of customization, streamlined dental product production, and more complete and economical clinical solutions for dentists and dental technicians.



Dental Applications

DMR III

DMR III is a dental resin for dental model printing used for rapid production of transparent orthodontic aligners with excellent mechanical properties and printability. It is easy to clean and also can achieve vertical printing with high resolution. DMR III provides doctors a highly accurate and error-free solution to produce every set of aligners with significantly improved treatment efficiency and shortened treatment cycle.



DSG 07

DSG 07 is a transparent and fast printing dental resin for production of tough implant guide model with excellent mechanical properties and good biocompatibility. With LuxCreo's advanced printing technology, printed surgical guides help doctors accurately position and construct the connection between implants and prosthesis, and hence effectively shorten the operation time and reduce the likelihood of postoperative complications.



DNG 06

DNG 06 is a fast printing transparent and easy-fit splint model resin with superb abrasion resistance, mechanical properties and biocompatibility.

The custom-made 3D printed splints precisely stabilize the dentition and/or oral musculature while facilitating functional dentition adjustment. The transparent and comfortable material perfectly balances between visual aesthetics and therapeutic performance and the simple yet efficient customization process greatly enriches the dental chairside applications.



Asia Headquarter

+8610-63941626 / business@luxcreo.com
www.LuxCreo.cn
Room 1017, Floor 1, Building 13, No. 27 Middle
Jiancaicheng Road, Haidian District, Beijing, China

North America Headquarter

+1 (650) 336-0888 / info@luxcreo.com
www.LuxCreo.com
940 Old County Rd., Belmont, CA 94002, U.S.A.

