



LuxCreo iLux Pro Dental

iLux Pro Dental DLP 3D printer with Digital Polishing™ provides first-of-its-kind simplified production for clear splints, retainers, and aligners for clinics & laboratories. iLux Pro Dental "Same-Day-Delivery" solution delivers high-accuracy and high-throughput production for dental laboratories and clinics.

Digital Polishing™ Benefits

3x revenue with same workforce

80% higher clarity

75% reduction in polishing time

Equipped with LEAP™, iLux Pro Dental simplifies and automates digital dentistry. LEAP™ platform tunes software, hardware, resins, and post processing to minimize labor and maximize daily production.

iLux Pro Dental



SYSTEM SPECIFICATIONS

Build Volume (XYZ)	192 x 108 x 200 mm (7.6 x 4.3 x 7.9 in)
Resolution	3840 x 2160 ppi
Pixel Pitch (XY)	50 µm
Wavelength	385 nm
Printing Speed	Material dependent
3D Printer Uncrated(WxDxH)	457 x 551 x 551 mm (18 x 21.7 x 21.7 in)
3D Printer Door Open(WxDxH)	457 x 583 x 698 mm (18 x 23 x 27.5 in)
3D Printer Crated Weight	52.7kg (116.2 lbs)
3D Printer Uncrated Weight	35.5kg (78.3 lbs)
Certifications	FCC, CE, UL
Warranty	12 months manufacturer's warranty included Extended warranty options available

SUGGESTED OPERATING ENVIRONMENT

Temperature	22-26 °C (72-79 °F)
Humidity (RH)	≤60%
Power	100-240 VAC, 50/60 Hz, 195 W

MEMBRANE

Compatible Membranes	LEAP
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MATERIALS

Compatible Materials	DMR, DSG, DNG, DCA series; 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

DMR 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 provides doctors a highly accurate and error-free solution to produce every set of aligners with significantly improved treatment efficiency and shortened treatment cycle.



DNG

DNG 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.



DCA

DCA is a clear and flexible yet tough aligner/retainer material which meets clinical requirements of transparency, flexibility and optimal orthodontic force. DCA is a FDA 510(k) Class II certified biocompatible dental resin material.

The technology of fast direct printing customized clear aligner/retainer is a major breakthrough in the application of 3D printing to the dental industry. Directly-printed aligner/retainer with high definition and superb transparency greatly improve the comfort and hygiene level of the patient. In addition to benefits on patient's user experience, the direct printing technology also saves the labor and material cost on manufacturing dental models, hence significantly increases the manufacturing efficiency and flexibility.



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