

ProJet® 1200

Micro-SLA® Dental Wax-up 3D Printer



3DSYSTEMS®

Quickly and economically produce highly accurate and detailed wax-ups for perfect fit, every time

The affordable ProJet® 1200 3D printer from 3D Systems puts the high precision and exceptionally fine feature detail of a professional 3D printer right on your lab bench. Wax-ups made on the ProJet 1200 are castable and pressable with standard dental lab equipment, so it is ideal for copings, pressed ceramics, bridges and veneers. The precision of the ProJet 1200 allows you to create unique feathered edges and crisp grooves that are commonly found on tooth anatomy.

The ProJet 1200 is so affordable to own and use that every dental CAD/CAM designer can have one at his desk, so there's no waiting to start a print on a shared printer. With an integrated curing chamber, everything you need is built, and replenishing material is as easy as popping in a new VisiJet® FTX cartridge.



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MANUFACTURING *THE* FUTURE

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Net Build Volume (xyz)	43 x 27 x 150 mm (1.69 x 1.06 x 5.90 in)
Native Resolution (xy)	56 micron (effective 585 dpi*)
Layer Thickness	0.03 mm (0.0012 in)
Vertical Build Speed	Up to 14 mm/hour (0.55 in/hour)
Material	VisiJet® FTX Green and FTX Cast
Material Packaging	All-in-one cartridge with built-in print window
Post-processing	Built-in UV Curing Station
Software	– Easy installer – Network connection – Windows®-based OS – Automatic and optimised supports
File Input	STL
Electrical	
Input	100-240 VAC, 50/60 Hz, 2.0 A
Output	24 V DC, 3.75 A, 90 W max
Dimensions (WxDxH)	
3D Printer Crated	381 x 381 x 560 mm (15 x 15 x 22 in)
3D Printer Uncrated	230 x 230 x 362 mm (9 x 9 x 14 in)
Weight	
3D Printer Crated	12 kg (25 lbs)
3D Printer Uncrated	9 kg (20 lbs)

* Enhanced LED DLP technology provides an effective resolution of 585 DPI.

Materials

	VisiJet FTX Green	VisiJet FTX Cast
	UV Curable Plastic	UV Curable Plastic with Wax
Description	Tough castable plastic ideal for most wax-ups	Wax and plastic hybrid for delicate castings
Color	Dark Green	Light green
Cartridge Quantity	30 g	30 g
Density @ 25° C (liquid)	1.04 g/cm ³	1.01 g/cm ³
Tensile Strength	ASTM D638 30 MPa	2.2 MPa
Tensile Modulus	ASTM D638 1700 MPa	154 MPa
Elongation at Break	ASTM D638 10 %	2.20 %
Flexural Strength	ASTM D638 40 MPa	3 MPa
Ash Content	0.01 %	0.008 %

Additional plastic materials are available, including Gray, Clear, Gold and Silver.

A low-cost, professional-grade dental wax-up 3D printer

- **Maximize your dollar** – The ProJet 1200 achieves unmatched part accuracy and smoothness for copings, bridges, pressed ceramics and veneers.
- **Make precise parts** – 585 dpi print resolution means you see every detail of your dental restorations and they fit perfectly every time.
- **Accelerate your workflow** – Fast print times allow you to keep up with the production of two dental CAD/CAM designers. Print 10 dental wax-ups in less than an hour.
- **Get started with 3D printing at an economical price** – The ProJet 1200's affordability and its inexpensive prints make it a perfect tool for every dental CAD/CAM designer. Print copings for as little as \$0.40 in materials.
- **Get started quickly** – The ProJet 1200 features a convenient bench-top size and pushbutton operation.

Features:

- Enhanced LED DLP technology and 0.030 mm layers ensure exceptional part resolution
- VisiJet FTX Green and FTX Cast materials cleanly burn out for ash-free castings
- Integrated material cartridges ensure consistent high-quality parts every time
- Fast print speed – up to 10 units per hour
- Factory calibrated for reliably accurate operation
- Network-ready and USB printing, compatible with all open .STL dental CAD/CAM packages

Micro-SLA

Micro-SLA is an additive manufacturing technology in which a thin layer of resin is contained in a build tray. The build platform lowers, transferring the resin to the build platform, and then the layer is cured by a UV projector. This process is repeated, building the part layer by layer until the model is finished.



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