



Zortrax Inventure

PROFESSIONAL DUAL EXTRUSION 3D PRINTER



Industrial Desktop

Zortrax Inventure is a dual-extrusion 3D printer designed for professional applications in various fields ranging from industrial design, through medicine, to engineering. It's an affordable desktop machine with capabilities found almost exclusively in large industrial class 3D printers: a dissolvable support system, an enclosed heated chamber, and a built-in HEPA filter.

What makes Zortrax Inventure exceptional is that it has all of those features combined and seamlessly integrated with the entire Zortrax Ecosystem along with dedicated 3D printing filaments and Z-SUITE slicing software. That's why Zortrax Inventure is a plug & play desktop 3D printer offering industrial-class performance.

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Water-soluble Support

Zortrax Inventure works with two separate, water-soluble support filaments. Z-SUPPORT is compatible with Z-PLA, Z-PETG, and semi-elastic Z-SEMIFLEX filaments which 3D print at temperatures around 180° C (356° F). Z-SUPPORT Plus is designed for ABS-based materials and can work at temperatures reaching nearly 245° C (505° F). This way Zortrax Inventure can 3D print water-soluble support structures with both PLA and ABS-based filaments.

Enclosed Printing Chamber

All ABS-based materials shrink during cool down. The higher the cool down rate, the more they shrink. To solve this, Zortrax Inventure has been designed around an enclosed, heated printing chamber. Hot ABS filament getting out of the nozzle is cooled down to 80 °C (176 °F). This temperature is then maintained in the chamber throughout the entire 3D printing process. Only when the model is finished, Zortrax Inventure cools it down further to room temperature. This way all layers cool down simultaneously at the same rate to prevent warping, cracking, and shrinkage.

Heritage of Quality

Zortrax 3D printers have won numerous industry awards and become the epitome of quality for professionals around the globe. They've been chosen by Bosch and NASA among others. Through years of delivering quality products to high-end businesses we have developed customer-oriented support services available worldwide. Zortrax Inventure has all of this and more to back it up.

Technical Data

Device	
Build volume	135 x 135 x 130 mm (5.3 x 5.3 x 5.1 in)
Material container	Cartridge
Material diameter	1.75 mm (0.069 in)
Nozzle diameter	0.4 mm (0.016 in)
Support	Dissolvable – printed with a different material than the model
HEPA filter	Yes
Material detection sensor	Yes
Chip with information about material (type, color, consumption)	Yes
Extruder	Printing with the model and the support material
Connectivity	SD card (included)
Available materials	Model materials (Z-PETG, Z-PLA, Z-SEMIFLEX, Z-ULTRAT Plus) and support materials (Z-SUPPORT, Z-SUPPORT Plus)

Software	
Software bundle	Z-SUITE
Supported input file types	.stl, .obj, .dxf, .3mf
Supported operating systems	Mac OS X / Windows 7 and newer versions

Printing	
Technology	LPD Plus (Layer Plastic Deposition Plus) – advanced technology with the system of Dissolvable Support Structures
Layer resolution	90 - 290 microns
Minimal wall thickness	400 microns
Platform levelling	Automatic measurement of platform points' height

Temperature	
Heated chamber	Yes
Ambient operation temperature	15 - 30° C (59 - 86° F)
Storage temperature	0 - 35° C (32 - 95° F)

Electrical	
AC input	110 V ~ 4 A 50/60 Hz ; 240 V ~ 1.7 A 50/60 Hz
Maximum power consumption	300 W

Weight and physical dimensions	
Device (W x D x H)	350 x 345 x 405 mm (13.8 x 13.6 x 15.9 in)
Shipping box	460 x 450 x 520 mm (18.1 x 17.7 x 20.5 in)
Device weight	21 kg (46.3 lb)
Shipping weight	26 kg (57.3 lb)

In the box
3D Printer, 2 cartridges (model material and support material), 5 build trays, Starter Kit

Additional information
Each delivered printer may have worked up to 50 hours during the quality control test prints.
All information contained in this brochure and specification is subject to change without notice.

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Contact your local Reseller

Find your local Reseller at [zortrax.com/resellers](https://www.zortrax.com/resellers).
Choose your country and you will get the list of resellers closest to your place of residence.

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