









Description

Zortrax Inkspire 2 is a high-end, large volume UV LCD 3D printer designed to work with quality resins in a highly automated, streamlined process.

Wide range of resins

The Inkspire 2, along with its complementing post-processing devices, have been thoroughly validated by the world's leading brands like BASF Forward AM and Henkel. Parts 3D printed on the Inkspire 2 and then post-processed in Zortrax Cleaning Station and Zortrax Curing Station are certified as having mechanical and thermal properties that match or even exceed those declared by the manufacturer.

At the same time, the resin ecosystem is open, so the Inkspire 2 can serve external resins too.

Proprietary light engine

A proprietary LED panel installed under the monochromatic LCD screen ensures even light distribution across the entire platform and high optical precision of every single pixel regardless of

how much of the build platform is filled. The same high dimensional accuracy can be achieved both in the center and on the edges of the platform.

The light engine is also powerful enough to work with many high-grade engineering resins (cured by light with 405 nm wavelength) that used to be supported only on industrial DLP machines without losing any of the UV LCD simplicity and ease of use.

The build platform is factory-calibrated which means the Inkspire 2 is ready for work out of the box. If necessary, the printer can be also calibrated by the user following a simple manual found in the menu. The calibration process is based on the adjustment of 3 platform screws.

Worldwide warranty

Thanks to the global warranty and a network of Zortrax partners running service centers around the world, all users are provided with extensive technical support and assistance for each Zortrax device.

A vast majority of the workflow is fully automated in the Inkspire 2.

- The printer automatically measures how much resin is needed to print a given model and checks if the amount in the tank and in the bottle is enough.
- Sedimentation of more advanced resins during longer prints is prevented by an automatic wiper.
- When a power outage is detected, the Inkspire 2 can safely shut down and finish the printing process once the power is back on.
- Finally, when the work is done, the Inkspire 2 can transfer the remaining resin back to the bottle. All these above-mentioned features make working with resins a simple, carefree experience.

Specification

Device

| Build volume |
|---|
| 192 x 120 x 280 mm (7.56 x 4.72 x 11.02 in) |
| Platform |
| pre-calibrated during quality control |
| Connectivity |
| Wi-Fi, LAN, USB |

| Operating system |
|--------------------|
| Android |
| Touchscreen |
| 4" IPS 800 x 480 |
| External materials |
| applicable |
| Supported formats |
| .zcodex2 |

Calibrated Resins

Zortrax Henkel LOCTITE Resin Pro 410
 Henkel LOCTITE 3D 3843 HDT60 High Toughness
 Henkel LOCTITE 3172 HDT50 High Impact
 Ultracur3D® EL 150
 Ultracur3D® EL 60
 Ultracur3D® EL 4000
 Ultracur3D® ST 1400
 Ultracur3D® ST 45
 Ultracur3D® ST 80
 Ultracur3D® RG 3280
 Ultracur3D® RG 35
 Ultracur3D® RG 50
 Ultracur3D® RG 1100
 Ultracur3D® FL 60
 BlueCast X5 LCD/DLP Resin
 BlueCast X10 LCD/DLP Resin
 BlueCast Original LCD/DLP Resin
 BlueCast X-One Resin
 Zortrax Resin Basic
 Zortrax Resin Tough

In the box

Zortrax Inkspire 2, UV Resin, Bottle Holder, FEP Film (set), Wiper Set, Resin Sensor Set, Starter Kit

Printing

| Technology |
|-----------------|
| UV LCD |
| Pixel size |
| 50 µm |
| Layer thickness |
| 25, 50, 100 µm |

| LCD screen |
|-----------------|
| 8.9" monochrome |

| Light source |
|---|
| integrated LED panel (wavelength 405 nm), ensuring even light distribution across the entire platform |

| Supports |
|--|
| mechanically removed - printed with the same material as the model |

Temperature

| Ambient operation temperature |
|-------------------------------|
| 20-40 °C |

| Storage temperature |
|---------------------|
| 0-35 °C |

Electrical

| AC input |
|-----------------------------|
| 100-240 V AC 6.2 A 50/60 Hz |

| Maximum power consumption |
|---------------------------|
| 340 W |

Software

| Software bundle |
|-----------------|
| Z-SUITE |

| Supported file types |
|---|
| .stl, .obj, .3mf, .dxf (only 2D models), .ply |

| Supported operating systems |
|---|
| Mac OS Catalina and newer versions Windows 10 and newer versions |

Additional information

All information contained in this brochure and specification is subject to change without notice. Each delivered printer may have worked up to 90 hours during the quality control test prints.

Video Link :

<https://www.youtube.com/watch?v=cqlyU90Ljtg&t=26s>