Refined 3D Printing Experience

Zortrax Inkspire 2 is a high-end UV LCD 3D printer designed to work with quality resins in a highly automated, streamlined process. Compared to the old Inkspire, it is larger, more powerful, and better in almost every way. It is the best resin 3D printing machine we have ever created. The Inkspire 2, along with its complementing post-processing devices, have been thoroughly validated by world's leading brands like BASF and Henkel to guarantee that each print has mechanical and thermal properties equal to or better than those declared by the manufacturer.

Zortrax Inkspire 2: Key Benefits	
Build volume	192 x 120 x 280 mm (7.56 x 4.72 x 11.02 in)
Technology	UV LCD
Touchscreen	intuitive, easy to use GUI
Connectivity	WIFI/LAN/USB
Precision	XY precision: 50μ; layer height: 25μ/50μ/100μ
Light engine	UV LED light source 405nm. proprietary matrix of light LEDs and light distribution guarantees uniform UV exposure across the entire build platform and high optical precision of every single pixel regardless of how much of the build platform is filled. In consequence, the same high dimensional accuracy can be achieved both in the center and on the edges of the build platform. Due to this proprietary technology, the Inkspire 2 guarantees the highest mechanical and thermal properties of prints made with professional resins from world-leading manufacturers like BASF or Henkel.

Zortrax Inkspire 2: Automated Workflow Components

UV cover	The UV cover effectively protects against exposure of resins to external UV light sources and reduces the emission of vapors to the environment.
Build platform removal mechanism and resin dripping	The build platform can be removed and attached back in the same exact position. The mounting enables leaving the build platform in an angled position which facilities resin dripping after the printing is done.
Calibration	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 GUI's simple manual. The calibration process is based on the adjustment of 3 platform screws
Resin vat	Fitted with an easy removal and attachments system making positioning easier along with a system improving the FEP membrane functioning.
Resin level control system	Resin level control system components: - **Resin pump**. Due to the automatic resin feeding system the Inskpire 2 can transfer more of the resin directly from the bottle if the amount present in the vat is not enough to get the print done. Resin bottles can be easily attached to the pump and placed in a dedicated holder. - **The pump works both ways**. There is no need to remove the resin vat to transfer excessive resin back to the bottle. The pump can do it automatically. - **Resin wiper mechanism keeping the optimal dispersion in the resin**. The wiper working in the vat prevents sedimentation in the resin which often occurs in more complex photopolymers during longer prints. The wiper speed is adjusted for each resin calibrated for the Inkspire 2. - **Resin level sensor**. Placed in the resin vat, the sensor constantly measures how much resin is left. Keeping the resin level steady, to an extent, solves the issue of oxygen inhibition which keeps the photopolymers from solidifying. - **Resin bottle mass sensor**. The sensor complements the sensor placed in the resin vat and measures how much resin is left in the bottle placed in the holder. Readouts from both sensors asses how much resin is overall available for the current print. The bottle holder is designed to accommodate most popular resin bottle designs. If the Inkspire 2 detects that there is not enough resin to finish the print, it notifies the user with appropriate message on the screen. If the resin runs out during printing, the process will be paused automatically.
Safety	- **Blackout Response System**: The print will be automatically paused when the power outage is detected and resumed from the same spot when the power is back on. - **printing process monitoring**: resin level control systems - **safety system** limiting the user's exposure to resin fumes (built-in Carbon and Hepa Filters inside printing chamber)
Other	Device rinsing and cleaning functions adjustable in firmware, adjustable feet to enable easy leveling of the printer on the surface.