

LD-001 Light- Curing 3D Printer



Desktop light-curing 3D printer

The material used for light-curing printing is called "photopolymer" and remain liquid at room temperature. After irradiation with UV light of a certain wavelength, which causes polymerization and then completes curing. The solidified layer on the original cured layer is superimposed and printed, come out with a three-dimensional model. Light curing can reach 10um and is more accurate than other forming principle.



LD-001 printing parameter

| Parameter | LD-001 |
|----------------------------|---|
| Operation | 3.5-inch color touchable screen |
| X, Y resolution | 47 microns (2560*1440) |
| Z-axis accuracy | 0.02mm-0.05mm (layer thickness) |
| printing speed | 20mm/hour |
| Forming size | 120(length)*70(width)*120(high) |
| layer thickness | 25-100 micron |
| Light source configuration | Ultraviolet integrated lamp beads (wavelength 405nm) |
| operating system | WINDOW XP+ system |
| Special consumables | Ordinary light grease, denture special light fat jewelry lost wax casting mold material |
| Rated power | 50W |
| Printing method | USB, WiFi |
| Forming technology | LCD screen light- curing molding |
| Slicing software | 3D Creator Slicer (Chinese&English) |

LD-001 Features

The complex model is molded only need one time and maintains micrometer-level accuracy, which is 4 times the SLA;

- Prints 70 Tooth crowns and 20 rings with regular size at a time, making it easy for small consumer electronics to print;
- The majority of the market uses the open source Raspberry Pi system, while LD-001 uses its own proprietary 3D Creator system to achieve the advantage of faster slice speeds, off-line printing, WiFi control, and self-renewal.
- Full chassis injection molding, more stable structure, more convenient assembly and adjustment;
- Full color touch screen, fast, efficient and high-technology.

Open source system compared with self-developed system

| System parameters | Open source system | 3D Creator |
|-------------------|---|---------------------------------|
| Hard disk | raspberry pie | 3D Creator Board 2.0 |
| System Upgrade | Waiting for an open source system upgrade | 3D Creator is regularly updated |
| printing method | USB | USB、offline、online |
| MAC system | Not support | Support |
| Slice speed | slow | 5 times faster slicing speed |
| Applicability | Complex configuration | Plug and play |

Independently developed system, faster slicing speed, offline printing, WiFi control, independent update;



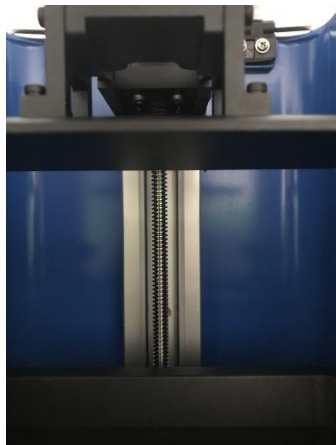
3.5-inch full-color touchable screen, advanced operational control;



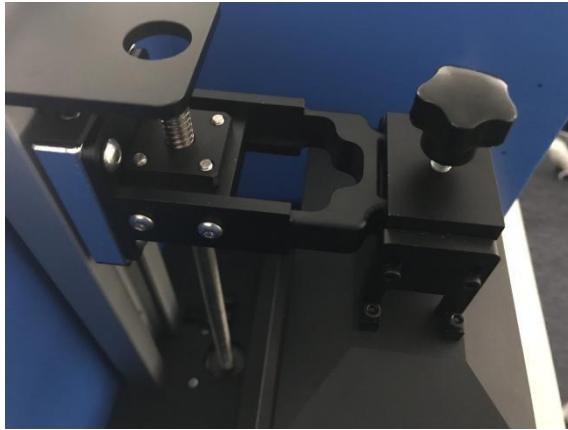
Innovative trough design, daily adjustment, refueling more convenient, more cost savings;



Fine adjustment of the module and screw rod to ensure product stability;



Automatically level the platform without complicated operations, making it easier to use;



The 3D Creator touch display system supports real-time preview of models, allowing you to intuitively find the files you want to select for printing.



Real offline printing

Most of the light-curing printers available on the market use Raspberry Pi microcomputers for offline printing. The 3D Creator system supports offline printing. You can not only use wired Ethernet but also WiFi and USB to connect printers. Stability and you will feel more safe to use.

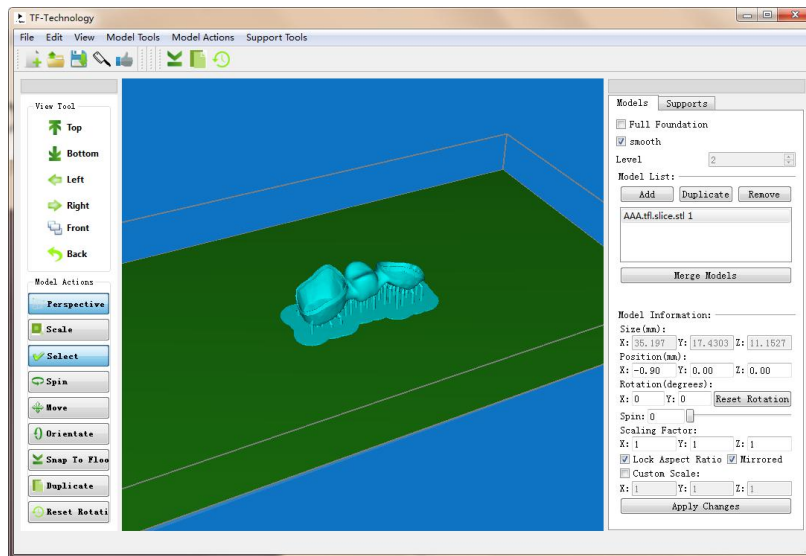


3D Creator slicing software

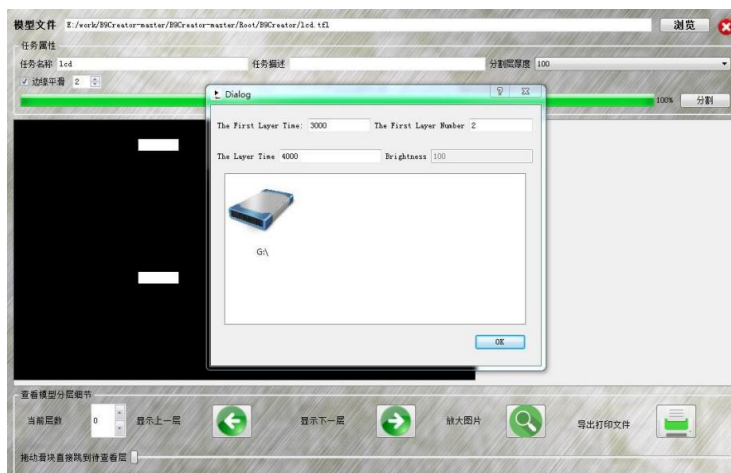
Independent research and development system, drawing processing more smooth, more efficient the slice speed. In the open source slicing system (such as CW) on the market, a 20m or so STL file slice takes 21 minutes while 3D Creator only needs 3 minutes.



Insert drawings and slice



Export to U disk after slicing, insert device for offline printing



LD-001sample demonstration

