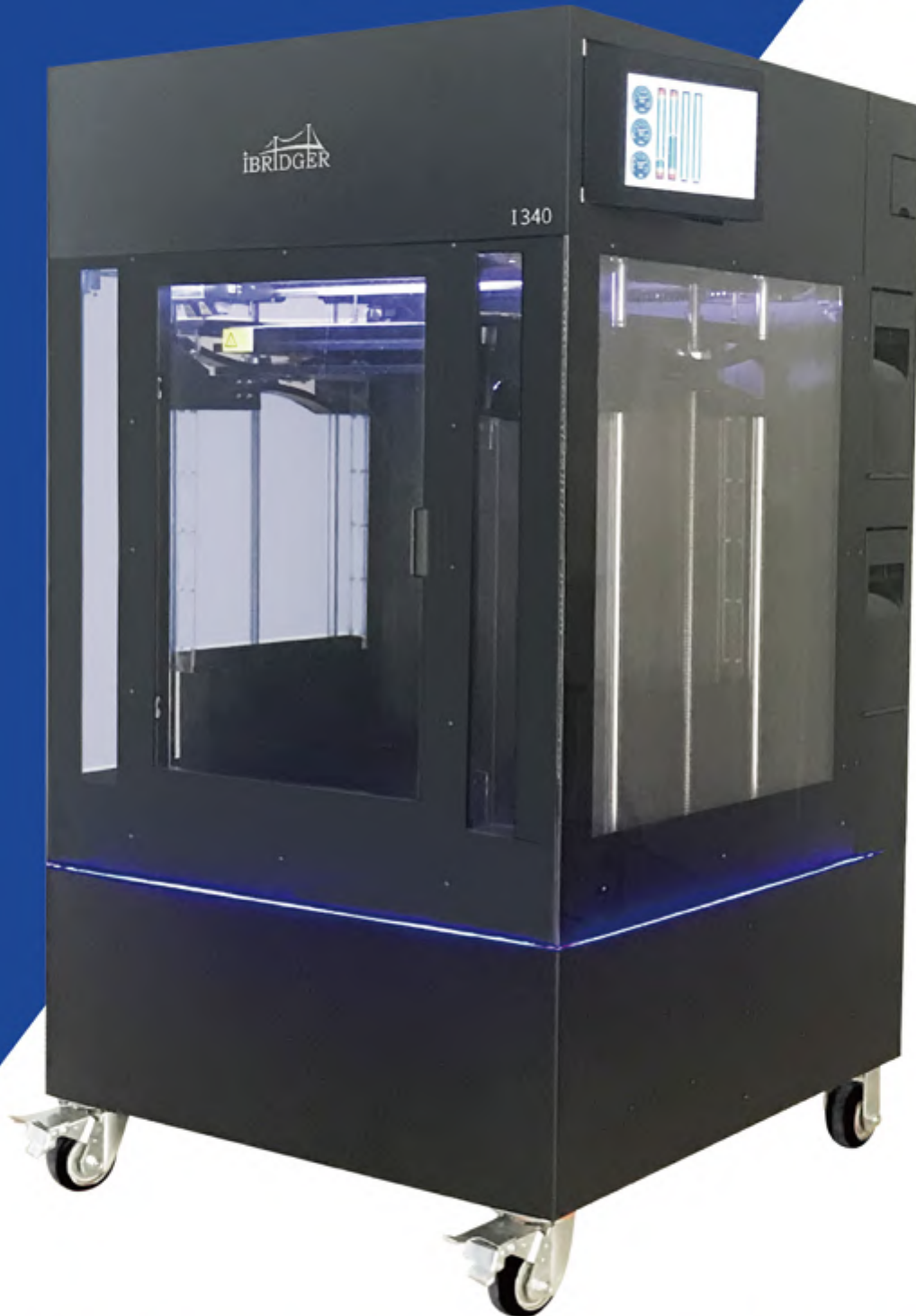


IBRIDGER

I 340 FDM 3D Printer



Large Build Volume Industrial Grade 3D Printer

# High Compatibility

i340 support a variety of materials, like PEEK, ABS, PETG, ASA, TPU, PC, PA, carbon fiber filled or glass fiber filled materials and dissolvable support materials.



PEEK



PA6-CF



PA6-GF



PLA-PVA Support



ABS



TPU



PETG



PC



ASA

# Data Sheet

<p><b>Size</b></p>	<p>Build volumn(W*D*H) 430X445X585mm  Machine size 905X940X1630mm  Net weight 350kg</p>
<p><b>Printer</b></p>	<p>Print technology FDM  Print bed Electromagnetic locking machenism, spring steel with plastic print surface, pre-calibrated print bed  Average working noise 50DB  Number of nozzles 2  Nozzle diameter 0.4mm  Nozzle working temperature(max) 410°C  Chamber PID 90°C  Filament bin 4, 2 for model and 2 for support  Filament type PEEK,PETG,PA6-CF,PA6-GF,ABS,PC,PA,PLA,TPU,ASA...  Filament diameter 1.75mm  Positioning accuracy X axis: 0.004mm Y axis: 0.002mm Z axis: 0.001mm  Connection mode USB / Wifi  Print resume in case of power loss Yes  Filament run-out sensor Yes  Operating environment Operation: temperature 15-30°C , humidity 30-70% RH  Storage: temperature 0-55°C , humidity 10-90% RH</p>
<p><b>Software</b></p>	<p>Slicing software Simplify 3D / CURA  Support type Auto / Manual  Compatible file format STL、OBJ  System requirements Windows 7 SP1 above, MacOS X10.10 above</p>
<p><b>Control System</b></p>	<p>Power 110V- 220V 2.5KW  User interface 10.1 inch touch screen  Screen resolution 1280 X 800  Logic controller RK3288 1.6GHz  Memory 2GB  Onboard Flash 16GB  OS Android 5.0  Ports USB2.0  Camera Yes  Language English  Motion controller 32 bit ARM Cortex M3 core</p>



## ► Print Head

### Dual extruder configuration

- Unique design of nozzle structure greatly reduces the risk of jam or leak.
- Dual extruder, dual color printing, dual material printing, support diversified printing needs.
- Cooling system for print head to prevent jam.

### Annular heating design

- Annular hot end with 360° surround heating wire which can heating up to 410°C rapidly and uniformly.
- Hot end covered by high temperature shield for heat preservation and scald prevention.



### Dual liftable nozzles

- The unique design of print head enable nozzles to move up and down(repeatability precision<0.004 mm), this stable and reliable mechanism avoid the scratch and damage between printing object and idle nozzle effectively.
- The nozzles can be lifted up to 5mm within 1/6 second (150000 times reliability test).

### Easy-Swap nozzle kit

- Easy to replace, make nozzle maintenance more convenient.
- Repeatabile disassembling design which enable frequently changeover among the nozzles with different diameter.
- Nozzles with thermal isolation cover to preserve heat, and prevent material residue attached.



## ► Nozzle Cleaning Device

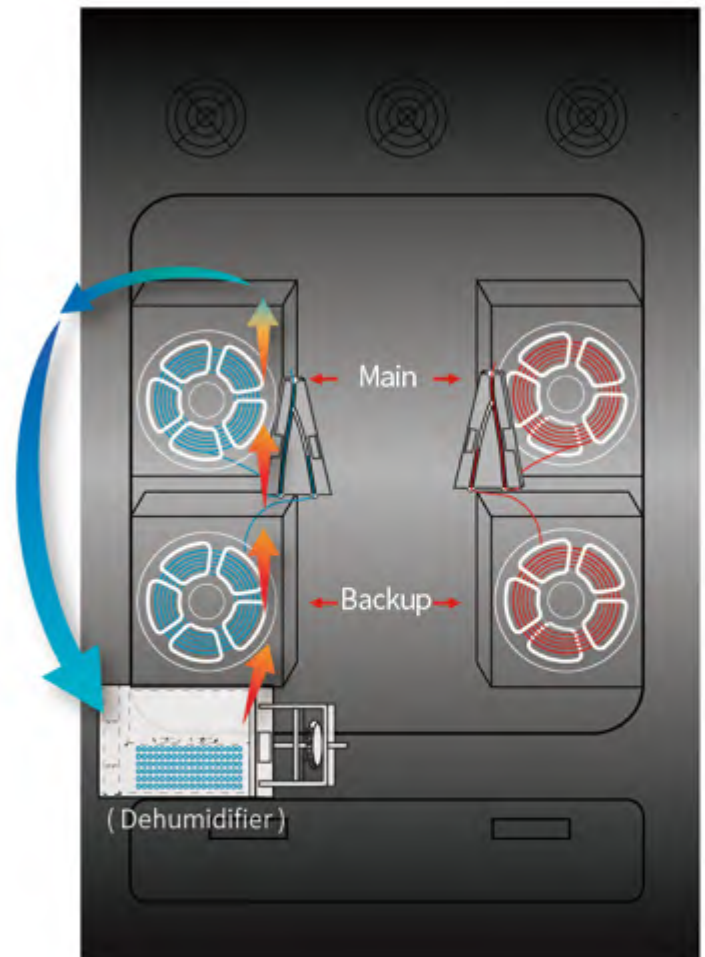
- Reliable dual extruder switching program helps to solve filament overflow issue.
- Printer cleans the material residuals around the nozzle tip automatically which helps to improve printing quality.

## ► Material Control

2 model filament bins, 2 support filament bins configuration, with filament run out sensor which enable the 2nd reel of filament to be fed automatically when the 1st reel run out, no printing interruption.

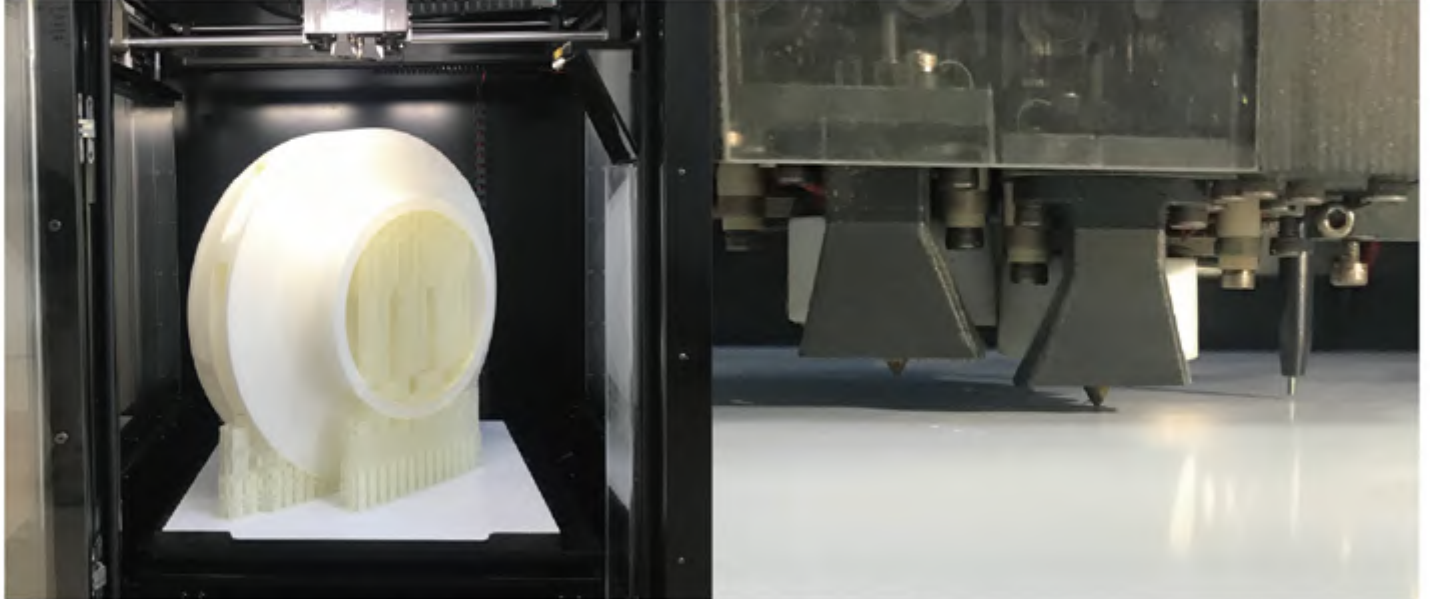
Primary plus auxiliary feeding extruders make filament feeding more stable.

Filament bin is designed to be full-enclosed with an auto-run dehumidifier which can control humidity at 20% RH to keep the filament in good condition all the time.





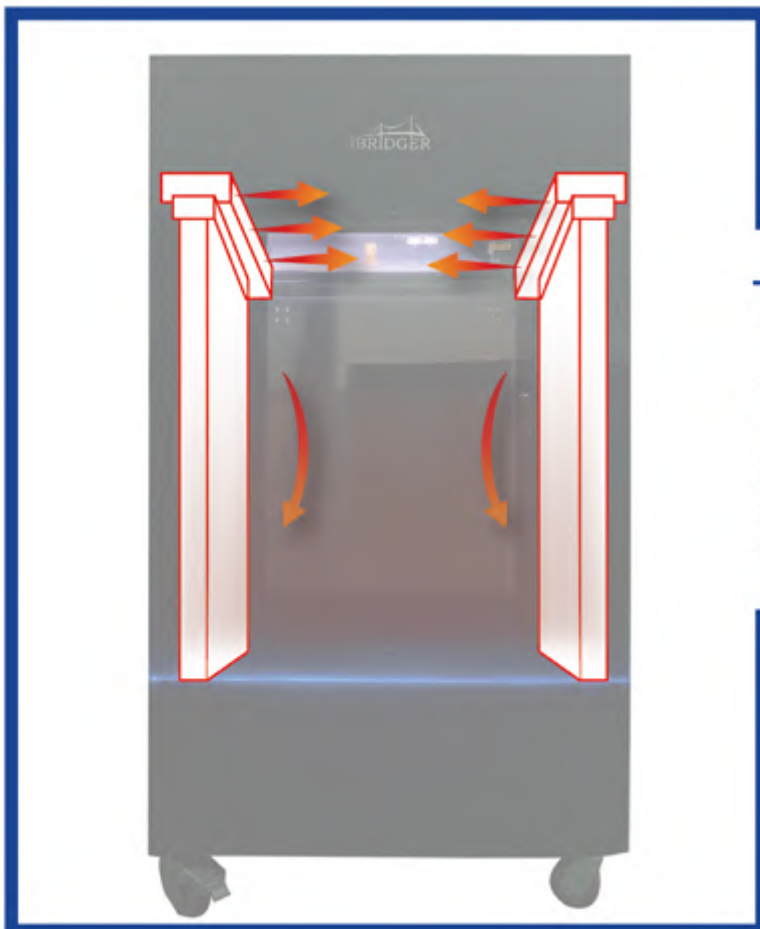
## ▶ Print Bed



Enhanced electromagnetic locking system ensures print bed flat durably.

Print bed with programmed control, convenient to place and replace.

The flatness of print bed is measured automatically and the print base plate was calibrated and locked before shipping.



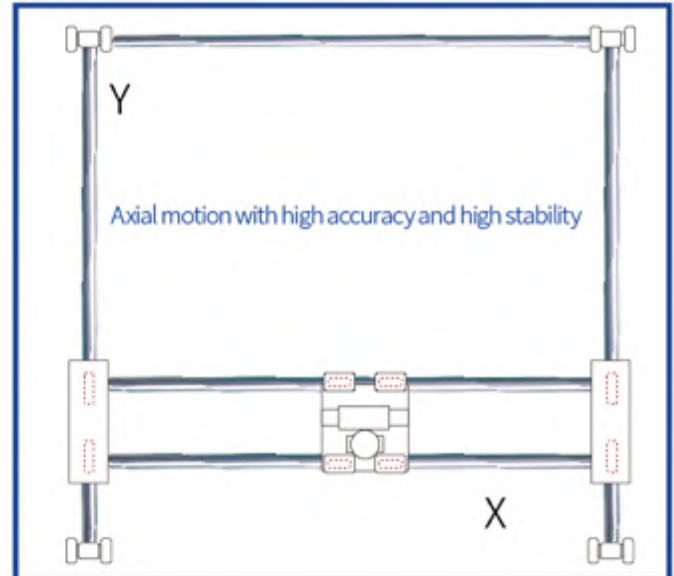
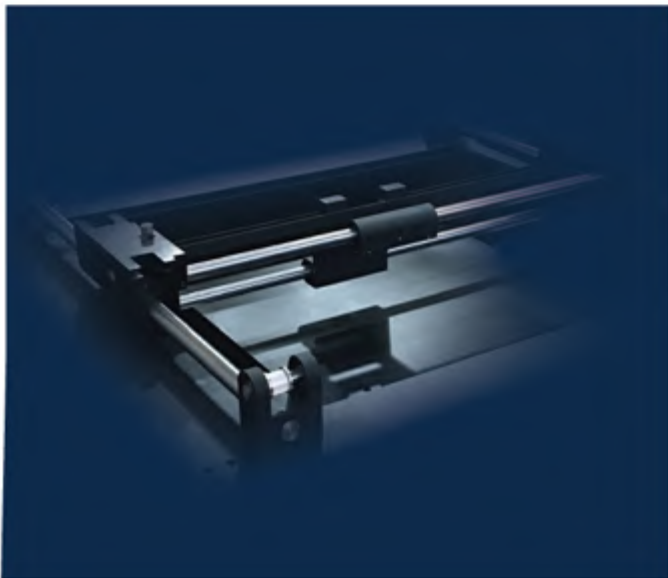
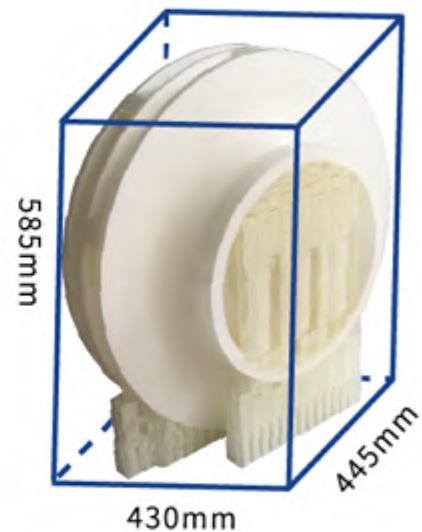
## Thermostatic Chamber

Visualized transparent printing chamber

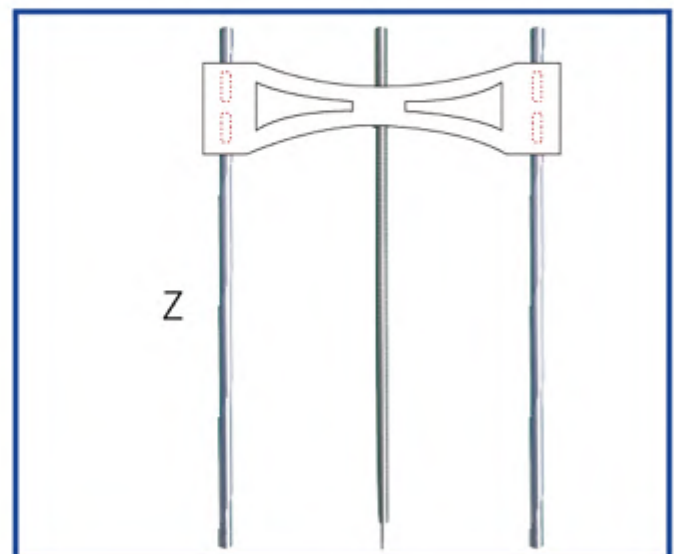
Sandwich type thermal isolation printing chamber with PID controller is able to control chamber temperature up to 90°C.

## ► X-Y-Z Axis Motion Structure

- Build volumn(W\*D\*H): 430X445X585mm
- High resolution up to 0.01mm layer thickness
- Positioning accuracy: X axis: 0.004mm  
Y axis: 0.002mm  
Z axis: 0.001mm



- The unique X-Y axis positioning design with 8 linear bearings ensures high precision and high stability of axial motion.
- Z axis adopts 2 ball screws, 4 shafts, 8 linear bearings to ensure printing platform moving stable.



## ► Motion Control

Dual processors,  
multi-channels data  
acquisition and multi  
controls.

ARM Cortex M3+  
megaAVR, high  
speed/high  
stability control  
board.

Realize automatic  
switching between  
two level systems  
(host and slave computer)  
on calling on-board  
memory card.



Dual filament  
feeders auto-switching  
drive system.

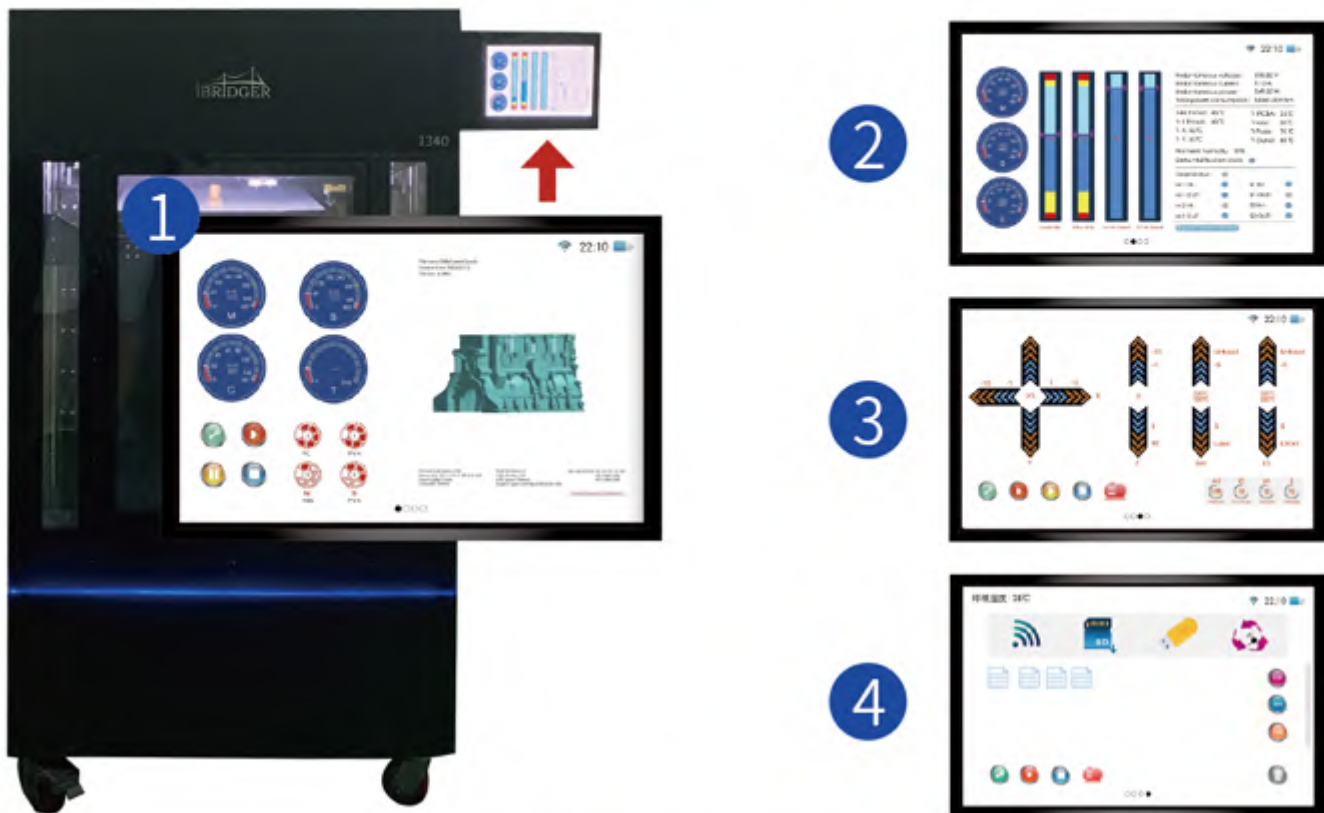
Closed loop  
monitoring on  
temperature, humidity,  
power consumption  
and motion status,  
enable to take protective  
action in case  
abnormal happens.

12 channels PID  
controllable DC high  
power output, maximum  
single channel output  
is up to 100W.

4 channels PID  
controllable AC high  
power output, maximum  
single channel output  
is up to 1500W  
(220V).



## ▶ Operating and Monitoring



10.1 inch full color touch screen

Technological style user friendly GUI design makes the printer can be operated much easier.



Industrial grade camera

With built-in surveillance camera, the working status of the printer can be controlled either through app or by PC.