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# **UP**600

# Large Format Powerhouse



- Large Print Volume 500 x 400 x 600mm
- ▶ Heated Build Chamber
- ▶ Embedded Air Filtration System
- ▶ Support WIFI, Ethernet, and USB Connections



Designed and Manufactured by Tiertime Corporation



The UP600 industrial 3D printer is designed to tackle very large print jobs with the same ease and precision you have come to expect from other Tiertime printers. It can accurately produce sizable 3D printed parts at an industrial scale. Applications include: engineering, prototyping, short-run production, one-off fabrication, large scale-modeling, medical, R&D, education, prop manufacturing, architecture, and industrial tooling.

#### Large Format

At  $500 \times 400 \times 600$  mm, the UP600's build volume is more than twice as large as that of the UP300. It is capable of printing objects 15.7 inches wide by 23.6 inches tall by 19.7 inches deep with a liquid volume of 120 liters or more than 31 US gallons.

#### **Heated Build Chamber**

Objects are printed inside a heated build chamber to minimize deformation caused by high temperature plastic cooling too quickly and absorbing naturally-occurring airborne moisture in the process.

### Connectivity

Connectivity options include Wi-Fi, Ethernet, USB cable, and USB memory stick. Multiple users on a network can send tasks to the printer, which can be monitored and managed via the Tiertime Print Queue.

#### **Dual Air Filtration**

The UP600 incorporates Tiertime's two-stage HEPA and activated carbon air filtration system, providing maximum UFP and VOC reduction for a safe operating environment.

### Optional Filament Dryer

The Tiertime Dryer helps maintain a pure material state by removing air-induced moisture from filament prior to 3D printing or sealed storage. It features a two-spool capacity, a 48-hour timer, and an adjustable temperature range from 35°C to 75°C.









# **Specifications**

Printing Technology MEM(Melting Extrusion Modeling)

Build Volume (XYZ) 500 x 400 x 600mm (19.7 x 15.7 x 23.6 in)

Number of Print Heads One LT Single Extruder

Nozzle Diameter 0.4mm (included)

0.5, 0.6, 0.8, 1.0mm (sold separately)

Extruder Temperature < 300°C

Extruder Travel Speed < 200mm/sec

XYZ Resolution 7, 7, 1 micron

Connectivity USB, WIFI, Ethernet, USB Stick

Touch Screen 7inch (TFT-LCD), Linux System, 16G

Dimension Accuracy ±0.1 mm / 100 mm

Layer Resolution (mm) 0.1 / 0.15 / 0.2 / 0.25 / 0.3 / 0.35 / 0.4 / User Defined

Calibration and Leveling Semi-Automatic

Heated Magnetic Build Plate Perf Glass or Flex Glass, Heated

Dual Filtration System HEPA and Actived Carbon Filters

Filament Diameter 1.75 mm

Tiertime Filaments UP Fila ABS, ABS+, PLA, TPU

and more

Filament Spool Compatibility 2kg

Pause to Change Ye Filament Type

Compatible for 3rd Party Materials

## Software

Supplied Software UP Studio

Supported OS Windows and MacOS

Importable .up3, .ups, .stl, .obj, .3mf, File Formats .ply, .off, .3ds, .gcode

### **Special Features**

Heated Build Chamber

Tiertime Print Queue

Power Loss Recovery

• Filament Runout Protection

Powerful Support Structure

### Dimensions

Machine Dimensions 780 x 1150 x 850 mm

Net Weight 120 kg

### Environment

Operating Ambient Temperatures 0 - 30°C, 0 - 40% RH

# Requirements