

UP mini 2 ES

3D Printer Accessibility Redefined

The UP mini 2 ES is a more advanced mini 2 with updated hardware and software. It retains its predecessor's full enclosure with built-in HEPA filtration, providing a perfect combination of emissions protection and build chamber temperature stability, crucial for ABS printing.

Key Features:

1. **4.3 Inch Color LCD Screen**
2. **Compatible with Tiertime Print Queue**
3. **HEPA and Activated Carbon Filter**
4. **Enhanced 3D printing workflow**

Features Retained from the Original mini 2

- Wi-Fi (usage optional)
- 3rd party filament compatibility: 1.75 mm ABS and PLA
- Automatic Nozzle Height Detection with Software-Assisted Calibration

Features Explained:

1. 4.3 Inch Color LCD Screen

An updated control screen versus the original mini 2, it has more features and functionality, plus the ability to be enhanced via future uploadable screen upgrades.

- a. Editable printer IP address
- b. Print job storage
- c. Print the stored model file using the touchscreen.

2. Print Queue

Allows multiple users to send print jobs from different devices to the same printer via USB/Wi-Fi/LAN.

Sending a list of print jobs from controlling devices to a 3D Printer is complicated and time-consuming. If there is only one 3D printer in the office and many designers need access, printer status must constantly be monitored. Users must wait until previous print jobs are sliced, sent to the printer and printed, which could take hours. Tiertime's new Print Queue allows more than one user to send print jobs to the printer simultaneously. Files to be printed appear in the queue's print list on a first come, first serve basis.

Input sources for the Print Queue can include USB, Wi-Fi, and LAN. Whether you are a STEM teacher, a designer, an engineer or the proprietor of a miniature factory, the UP mini 2 ES Print Queue offers a robust, easily-accessed, multi-job print experience for extended production cycles.



3. HEPA and Activated Carbon Filter

3D printing certain materials such as ABS can generate potentially harmful UFP and VOC emissions. The HEPA and Activated Carbon filter effectively reduce these toxic elements, known to be triggers for those suffering from asthma and other pulmonary disorders.

4. Enhanced 3D printing workflow

An Ethernet socket allows you to connect your printer to a wired Local Area Network for maximum security. This is particularly useful for schools and businesses averse to transmitting sensitive design data in a wireless environment. A second USB port allows you to load sliced print tasks from a USB memory stick and launch the print job from the printer's LCD touchscreen.

TierTime UP mini 2 ES Specification Table

Printer	
Printing Technology	MEM (Melted Extrusion Modelling)
Extruder	Single
Nozzle Diameter	0.4mm
Extruder Maximum Temperature	299°C
Extruder Maximum Travel Speed	150 mm/sec
XYZ Accuracy	2, 2, 2 micron
Connectivity	USB cable, Wi-Fi, LAN and USB Stick
Display	4.3" Full Colored LCD Screen
Build Volume	120 x 120 x 120 mm (4.7" x 4.7" x 4.7")(XYZ)
Printed Object Accuracy	±0.15mm/100mm
Layer Resolution	0.15/0.2/0.25/0.3/0.35mm
Build Plate Maximum Temperature	70°C
Build Plate Surface	UP Perf or UP Flex, Heated
Calibration and Levelling	Automatic Nozzle Height, Software-Assisted Leveling
Enclosure	Full
Filtration system	HEPA and activated carbon filters
Supported Materials	UP Fila ABS, ABS+, PLA , and more
Filament Diameter	1.75mm
Filament Spool Compatibility	500 g
Pause to change filament type	Yes
TierTime Print Queue	Yes
Compatible with 3rd Party Materials	Yes
Physical dimensions	
Machine Dimensions	255× 365 × 385 mm (19.1" x 20.5" x 19.5")
Net weight	8kg
Power requirements	
Input	110-240VAC, 50-60Hz, 90W