

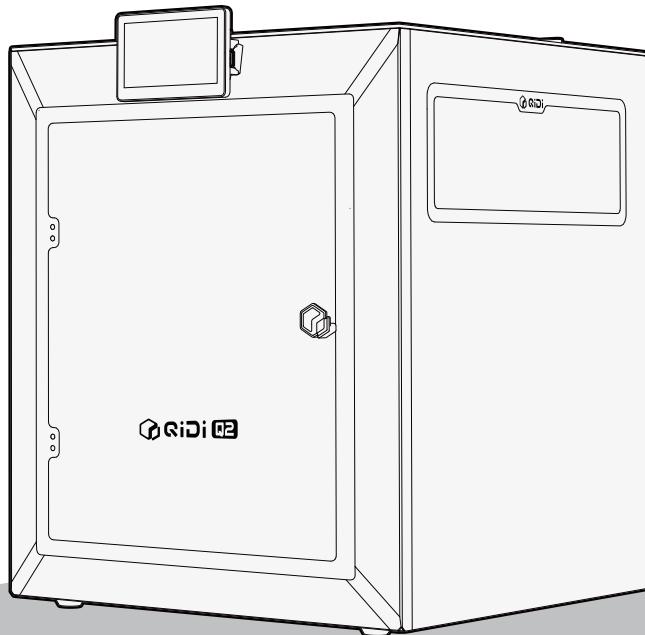
# Q2

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## Quick Start Guide

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**Please read this guide carefully  
before using this product**

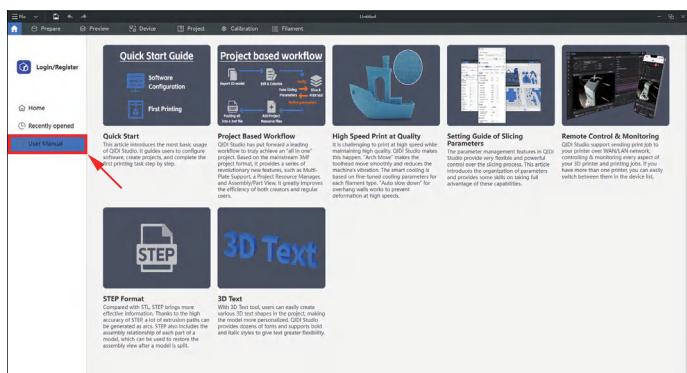


## Usage Notice

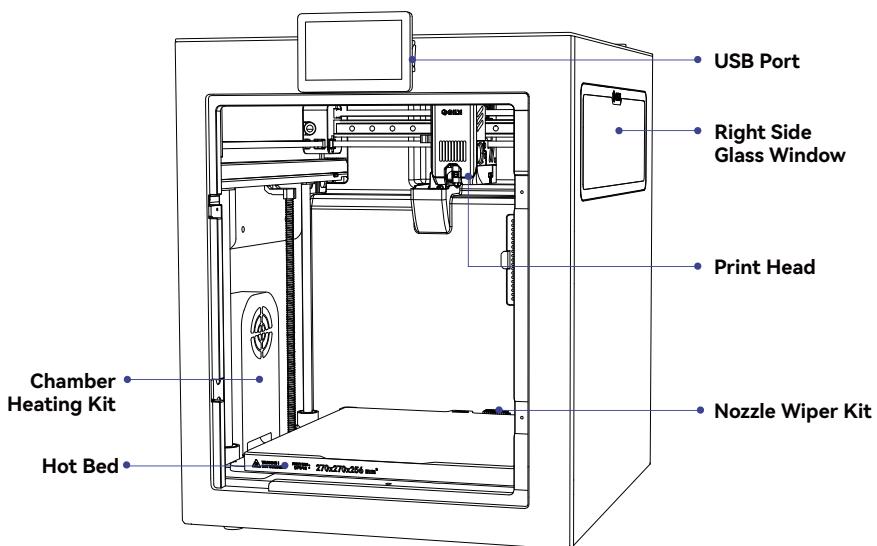
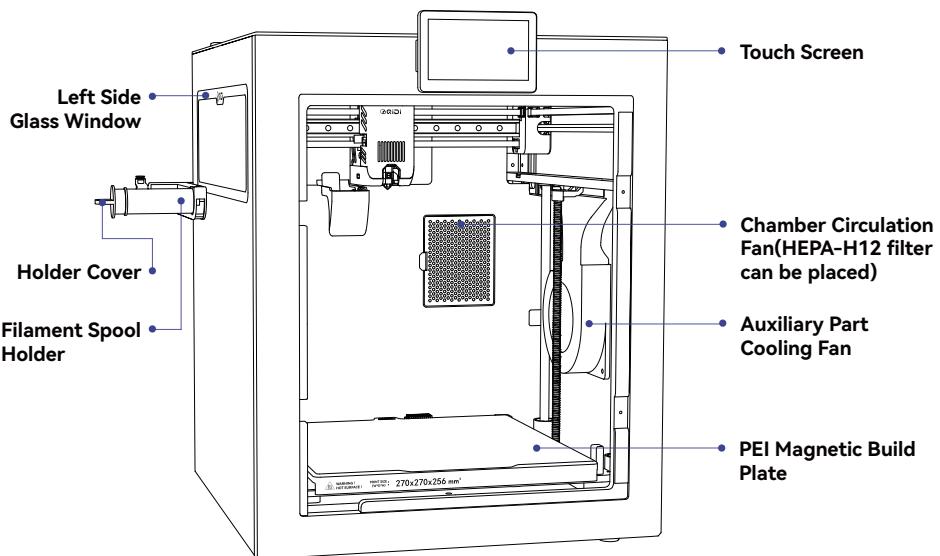
- Do not place the machine in flammable and explosive materials or near high heat sources, please place the machine in a ventilated, cool and dust-free environment.
- Ensure the machine is powered off (unplug power cord) before performing maintenance or modifications.
- Before applying power to the machine, check that the voltage is correct.
- Never reach inside QIDI printers while they are in operation.
- Children should be under constant supervision when using QIDI products.
- The printer contains high-speed moving parts, so be careful of hands pinching.
- There is a potential risk of burns: the print head of the QIDI printers can reach temperatures above 300 °C, while the hot bed can reach temperatures above 100 °C. Do not touch either of these parts with your bare hands.
- Do not place the printer in a vibrating or other unstable environment. Otherwise the shaking of the machine will affect the printing quality.
- After printing, use the residual temperature of the print head to clean the filament around the nozzle with the dedicated tools in time. Do not touch either of these parts with your bare hands.
- Regular maintenance of the printer is essential. When the printer is powered off, use a dry cloth to clean the printer body, removing dust, residual consumables, and foreign objects from the optical axes. The linear guides and Z-axis lead screws require periodic cleaning and lubrication.
- If the machine is in standby mode for a long time, please unplug the power of it.
- If the machine is not used for a long time, please pay attention to protect the printer from dust and damp.
- There are manuals, slicer software and other related information in the USB flash drive. (The information in the USB flash drive may not be the latest. You can obtain the latest information by contacting the After-sales Service marked at the end.)
- Modifying system files or installing non-official plugins constitutes a voluntary waiver of official technical support. Users assume all risks associated with such actions, including firmware malfunctions, system failures, or other issues, which are explicitly excluded from warranty coverage. To restore the original system state, perform a "Factory Reset" via the settings interface.

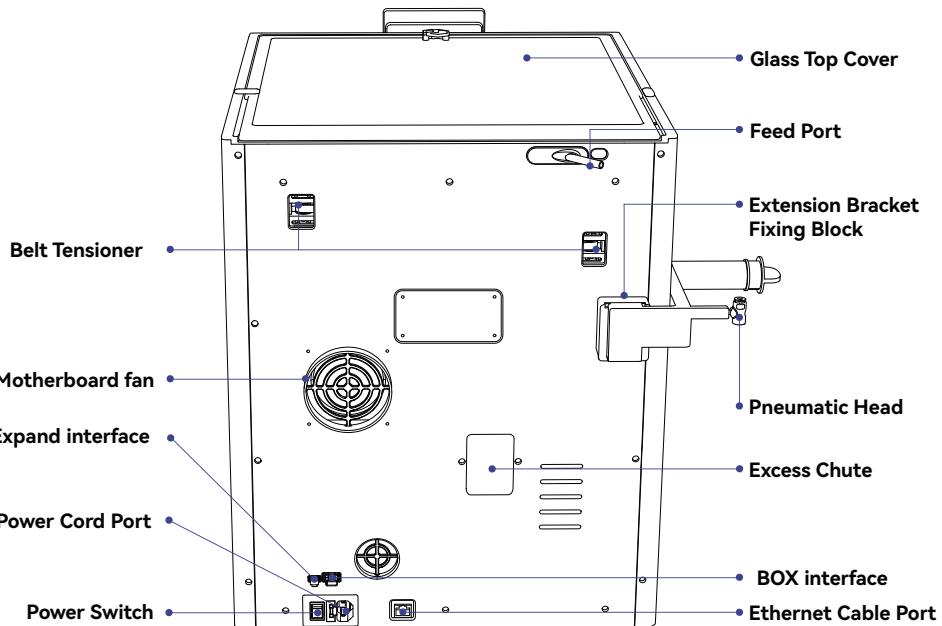
## QIDI Studio

There is QIDI Studio slicing software in the USB flash drive. After installing and operating it, you can learn how to use the software in the User Manual.

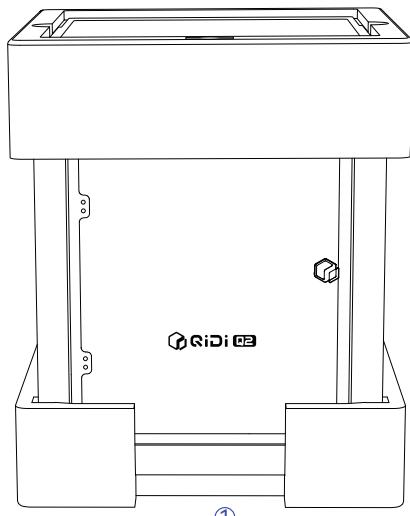


# Printer Introduction

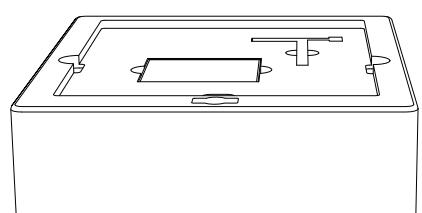
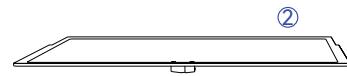




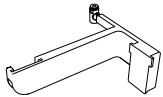
## Unboxing



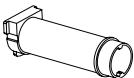
- ① Accessory Box
- ② Glass Top Cover
- ③ Filament Extension Rack And Pneumatic Head
- ④ Touch Screen



# Machine Accessories



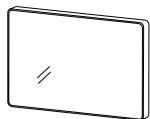
**Filament Extension  
Rack And Pneumatic  
Head**



**Filament  
Spool Holder**



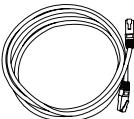
**Holder Cover**



**Touch Screen**



**Power Cord**



**Ethernet Cable**



**USB 2.0  
Flash Drive**



**Scraping Silicone**



**Spare Parts Kit**



**Lubricant Oil**



**7mm Spanner**



**Scraper**



**Flat Head  
Screwdriver**

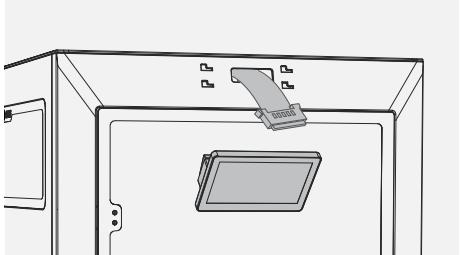


**Glue Stick**

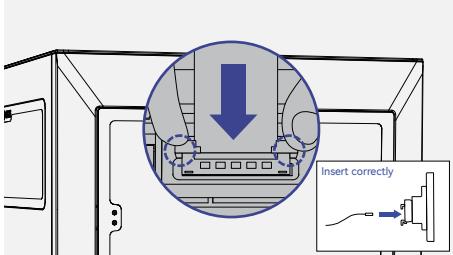


**Allen Key  
(H1.27、H1.5、H2、H2.5、H3)**

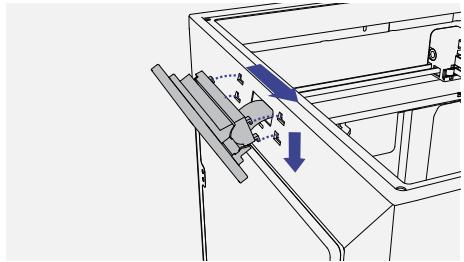
## Install Display Screen



Pull the cable out approximately 50mm.

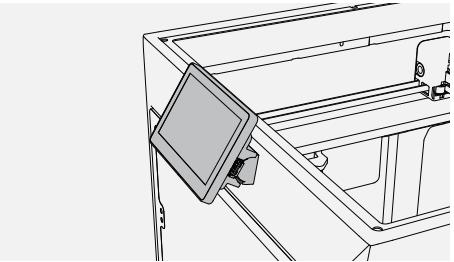


Hold the terminals on both sides and insert the flat cable into the screen cable interface.



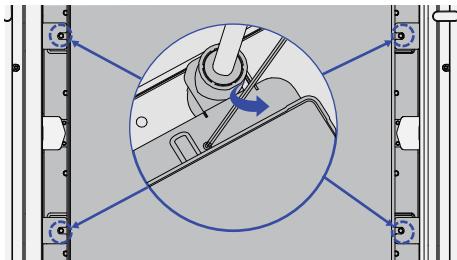
Insert the screen back into the printer slot. First press it downward, then push the screen to the right to lock it in place.

**Note:** When installing the screen, tuck any excess cable into the recess of the printer's front cover.

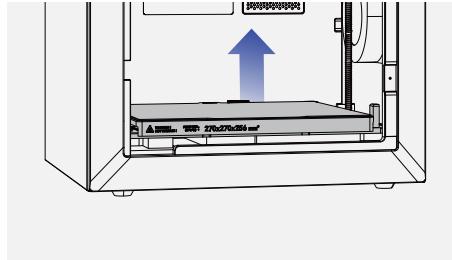


The monitor installation is complete.

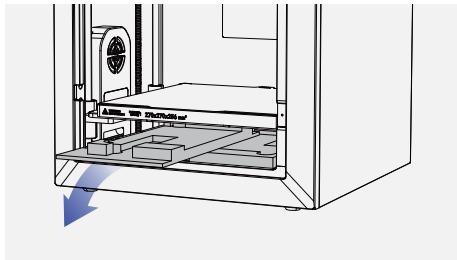
## Unlock Platform



Unscrew the four screws that secure the hot bed.

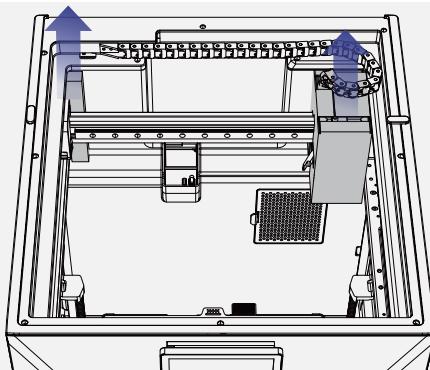


Waiting for the platform to rise.



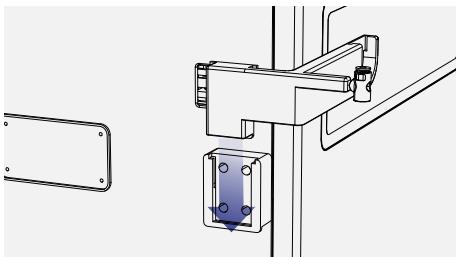
Take out the foam pad under the platform.

## Unlock Nozzle

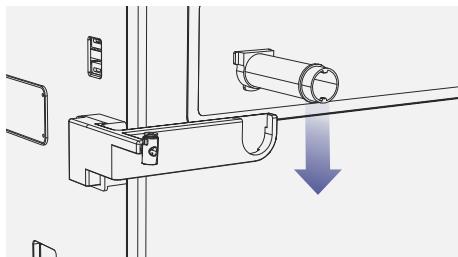


Remove the paper box and foam cotton of the nozzle.

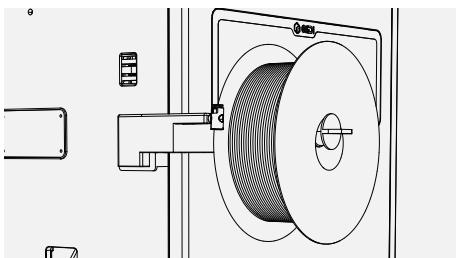
## Load Filament



Install the bracket extender onto the fixture.

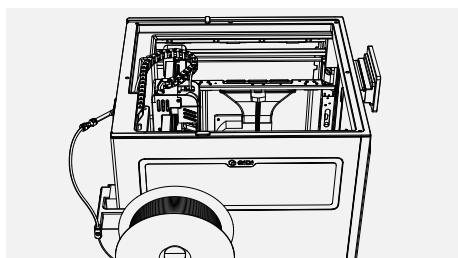


Install the filament bracket onto the bracket extender.



Place the filament on the filament holder.

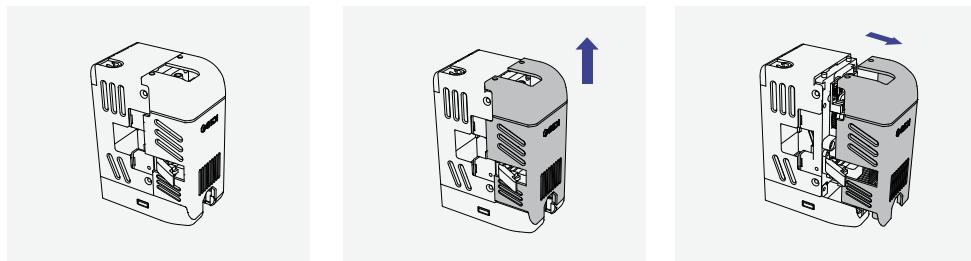
**Note:** We recommend installing the filament holder cover to prevent filament from falling off.



Take a PTFE tube and connect one end to the pneumatic head on the filament extender and the other end to the feed port.

Push the filament through the pneumatic head until it reaches the printer nozzle.

# How to Remove the Print Head Front Cover



The print head front cover features a buckle structure on the top. Do not remove it directly. First, unlock it by lifting it upward, then remove the print head front cover outward and laterally.

## First Printing



Click the button to start printing.

Note: Pre-saved models files use PLA Rapido filament by default.

## Tips

1. Some other brands of ABS filaments are less heat resistant and it is recommended to set the chamber temperature no more than 55 degrees Celsius. Otherwise the filaments may be softened in advance and cause clogging.
2. If the filaments do not stick to the print platform:
  - 1) Please check if the nozzle is far away from the print plate, you can adjust the platform upward by Z-offset adjusting function.
  - 2) Because of the different ambient temperatures in different regions, the temperature of the heat bed can be increased appropriately to increase the adhesion of the filaments.
  - 3) If above all can not work , please contact the after-sales service for assistance.

# Filament Guide for Beginners

QIDI Filament 1		ABS Rapido	PLA Rapido	PETG-Tough	UltraPA
Preparation	Necessity Of Drying	Optional	Optional	Optional	✓
	How To Dry	70 °C 8 h	55 °C 8 h	65 °C 8 h	60 °C 4-6 h
	Nozzle Material	Bimetal Nozzle/ Tungsten Carbide	Bimetal Nozzle/ Tungsten Carbide	Bimetal Nozzle/ Tungsten Carbide	Bimetal Nozzle/ Tungsten Carbide
	Nozzle Size	All Size	All Size	All Size	0.4/0.6/0.8 mm
	Dry Box	Optional	Optional	Optional	Need to maintain humidity ≤ 15 %
	Print With Enclosure	✓	✗	✗	✓
Slicer Parameter	Print Speed	260 mm/s	260 mm/s	180 mm/s	80 mm/s
	Chamber Temperature	50 °C	/	/	/
	Nozzle Temperature	250-280 °C	200-230 °C	240-270 °C	280-300 °C
	Build Plate Temperature	100 °C	60 °C	80 °C	80 °C
	Cooling Fan	30 %	100 %	60 %	20 %
Post-processing	Annealing Needs	80-90 °C 6-8 h	✗	✗	70-90 °C 6-8 h
QIDI Filament 2		ABS-GF25	PA12-CF	PAHT-CF	PET-CF
Preparation	Necessity Of Drying	✓	✓	✓	✓
	How To Dry	70 °C 4-6 h	100-120 °C 4-6 h	100-120 °C 4-6 h	100 °C 4-6 h
	Nozzle Material	Bimetal Nozzle/ Tungsten Carbide	Bimetal Nozzle/ Tungsten Carbide	Bimetal Nozzle/ Tungsten Carbide	Bimetal Nozzle/ Tungsten Carbide
	Nozzle Size	0.4/0.6/0.8 mm	0.4/0.6/0.8 mm	0.4/0.6/0.8 mm	0.4/0.6/0.8 mm
	Dry Box	Need to maintain humidity ≤ 15 %			
	Print With Enclosure	✓	✓	✓	✓
Slicer Parameter	Print Speed	200 mm/s	200 mm/s	200 mm/s	200 mm/s
	Chamber Temperature	45 °C	/	/	/
	Nozzle Temperature	250-270 °C	280-300 °C	280-320 °C	280-320 °C
	Build Plate Temperature	100 °C	80 °C	80 °C	80 °C
	Cooling Fan	20 %	15 %	15 %	10 %
Post-processing	Annealing Needs	80-90 °C 6-8 h	80-100 °C 6-8 h	90-130 °C 6-8 h	90-130 °C 6-8 h

Generic Filament		ABS	PETG	PLA	TPU 95A
Preparation	Necessity Of Drying	Optional	Optional	Optional	Optional
	How To Dry	70 °C 8 h	65 °C 8 h	55 °C 8 h	70 °C 8 h
	Nozzle Material	Bimetal Nozzle/ Tungsten Carbide	Bimetal Nozzle/ Tungsten Carbide	Bimetal Nozzle/ Tungsten Carbide	Bimetal Nozzle/ Tungsten Carbide
	Nozzle Size	All Size	All Size	All Size	0.4/0.6/0.8 mm
	Dry Box	Optional	Optional	Optional	Optional
	Print With Enclosure	✓	✗	✗	✗
Slicer Parameter	Print Speed	220 mm/s	120 mm/s	200 mm/s	60 mm/s
	Chamber Temperature	45 °C	/	/	/
	Nozzle Temperature	240-280 °C	240-270 °C	200-230 °C	220-260 °C
	Build Plate Temperature	100 °C	80 °C	60 °C	60 °C
	Cooling Fan	30 %	60 %	100 %	100 %
Post-processing	Annealing Needs	80-90 °C 6-8 h	✗	✗	✗

## Specifications

Machine Name		Q 2
Body	Print Size (W*D*H)	270*270*256mm
	Printer Dimensions	402*438*494mm
	Package Dimensions	480*520*585mm
	Gross Weight	23.5kg
	Net Weight	18.1kg
	XY Structure	CoreXY
	X Axis	High Hardness Linear Guide Rail
	Z Axis	Dual Independent Lead Screw Motors 10mm linear shafts and screws
Print Head	Print Head Temperature	≤370°C
	Extruder Gear	Direct Extruder Hardened Steel Dual Gears
	Hot End	Ceramic Plate Heating, Multi-metal
	Nozzle	Bimetal Nozzle
	Nozzle Diameter	0.4mm (0.2/0.6/0.8mm Optional)
	Filament Diameter	1.75mm

Hot Bed	Printing Platform	Aluminum Substrate Heating Bed
	Printing Plate	Dual-Sided Textured PEI Plate
	Hot Bed Temperature	≤120°C
Speed	Max Speed of Tool Head	600mm/s
	Acceleration	≤20000mm/s^2
Fan	Activated Carbon Air Filter	3-in-1 Air Filter: G3 Pre-Filter+ H12 HEPA+Coconut Shell Activated Carbon
	Hot End Cooling Fan	4-Pin PWM Fan with RPM Feedback
	Part Cooling Fan	4-Pin PWM Fan with RPM Feedback
	Auxiliary Part Cooling Fan	4-Pin PWM Fan with RPM Feedback
	Motherboard Fan	Closed-Loop Control
	Chamber Circulation Fan	Closed-Loop Control
	Chamber Temperature (PTC Heater)	2nd Gen Up to 60°C Independent Chamber Heating
Filament	Supported Filament	PLA, ABS, ASA, PETG, TPU, PA, PC, Carbon/Glass Fiber Reinforced Polymer, etc.
	Filament Cutter	Yes
Sensor	Filament Clog Detection	Yes (QIDI BOX required)
	AI Camera Detection	Yes
	Resonance Compensation	Yes
	Filament Tangle Detection	Yes (QIDI BOX required)
	Filament Run Out Sensor	Yes
	Automatic Leveling	Loadcell Sensor Integrated into the Hotend
	Power Loss Recovery	Yes
Power	Voltage	110V/240VAC, 50/60Hz (region-specific models available)
	Rated Power	350W+280W (Chamber Heating)
Electronics	Display Screen	4.3 Inch 480*272 Touch Screen
	Storage	32G EMMC and USB2.0 Flash Drive
	Camera	Low Framerate Camera (Up to 1080P) Timelapse Supported
Signal	Connectivity	Wi-Fi: 2.4GHz/Ethernet/USB
Software	Slicer	QIDI Studio and other third-party software, such as Orca, PrusaSlicer etc.
	File Formats for Slicing	STL, OBJ, 3MF, STEP (.stp/.step), etc.
	Operating System	Windows, MacOS, Linux



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**Official Website: [www.qidi3d.com](http://www.qidi3d.com)**



Please visit the QIDI Tech official Wiki for more  
machine usage and maintenance tutorials.  
<https://wiki.qidi3d.com/en/home>

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.