

# QIDI BOX

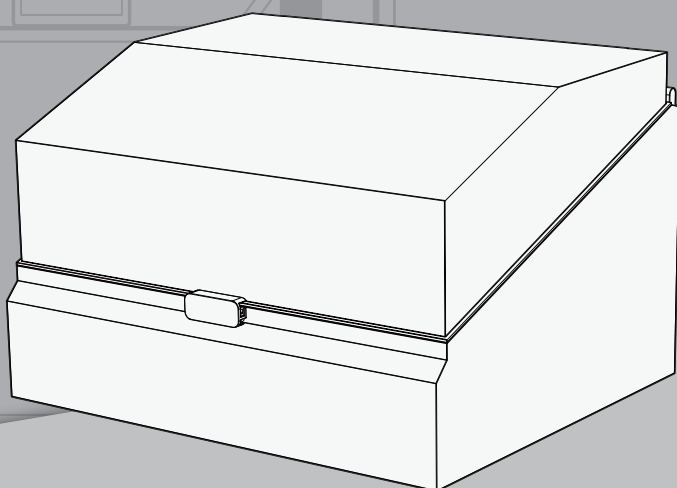
## Quick Start Guide

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

**Safety tip:**

**Do not power on before installation is complete!**

QDB001



The actual UI interface is subject to the system version

All pictures are for illustrative purposes only, actual product may vary due to product optimization

## Usage Notice

### ① Installation environment

- Keep away from flammable and explosive materials as well as high heat sources.
- Keep QIDI BOX ventilated, cool and less dusty.

### ② Operation safety

- Ensure to power off before maintenance/modification.
- Confirm voltage compatibility before powering on.
- Do not touch internal components during operation.
- Children should use it under adult supervision.

### ③ Instructions for filament use

- It is recommended to use QIDI official filaments (tested for compatibility/stability/safety to achieve the best printing results).
- Some flexible filaments (e.g., TPU 95A) are not supported due to a high risk of clogging.
- Applicable spool specifications:  
Width: 50-72mm Diameter: 195-202mm (plastic spool is recommended)

### ④ Equipment usage/maintenance

- When drying filaments, if you need to exhaust the internal moisture, please open the ventilation rubber on the back side and close it promptly after ventilation to avoid affecting the drying effect.
- Take moisture-proof, dust-proof, and waterproof measures during standby.
- Cut off the power supply when in long-term standby.

### ⑤ Safety warning

- QIDI BOX contains high-speed rotating parts, so be cautious to avoid getting pinched.

### ⑥ System maintenance

- Unauthorized modification of the system or installation of non-official plugins will void the warranty.

**(Please strictly follow the notices to ensure safe use. Violation of the above operations may result in equipment damage or personal injury, and you shall bear the responsibility yourself.)**

## Precautions

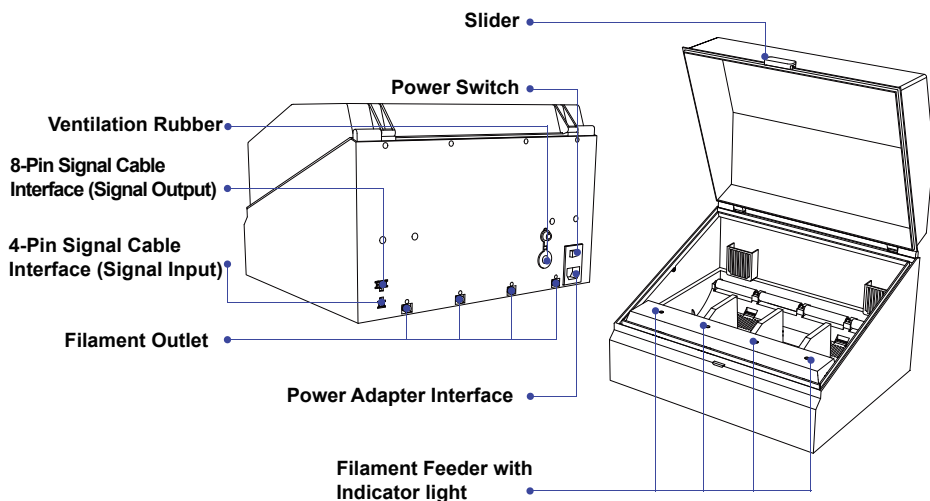
- Composite filaments must be fully **REHEATED** before feeding.
- Do not feed low-melting-point filaments (PLA/PETG) when QIDI BOX is **HOT**.
- Do not plug or unplug the signal cable when QIDI BOX is powered on.
- Avoid placing filaments or heavy objects on open QIDI BOX cover.

## QIDI BOX Maintenance Guide

**As an intelligent system, regular maintenance of QIDI BOX helps maintain machine performance and extend its service life.**

- **PTFE Tube:** Long-term use may result in wear, leading to poor filament feeding or clogging. Regular inspection and timely replacement are necessary.
- **Feeder:** Regularly clean the internal residual filaments to avoid affecting the smoothness of filament feeding.
- **Heating Unit:** Clean the fans and heat sinks regularly to prevent dust accumulation from affecting the drying effect.
- **Drive shaft:** If there is unstable installation or obvious damage, it may cause abnormal filament feeding and withdrawal. In case of such issues, please reinstall or replace the components according to the tutorial.
- **Desiccant:** Regularly check and replace it to ensure the interior of QIDI BOX remains dry, maintaining optimal printing performance of the filaments.

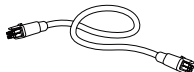
# QIDI BOX Introduction



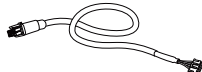
## Accessory List



**Power Cord**



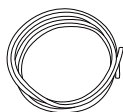
**8-4 Pin  
Signal Cable**



**BOX Hub  
Signal Cable**



**BOX Hub**



**PTFE Tube  
1000mm\*5**



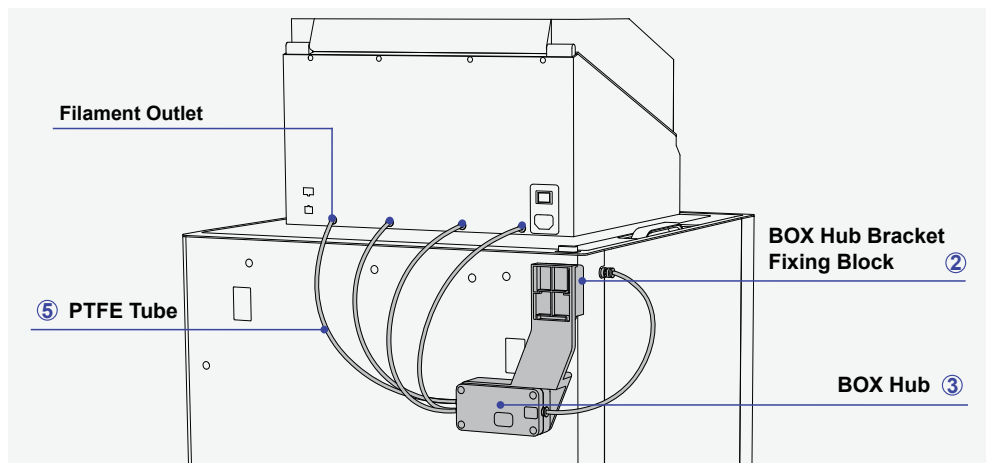
**Desiccant\*4**



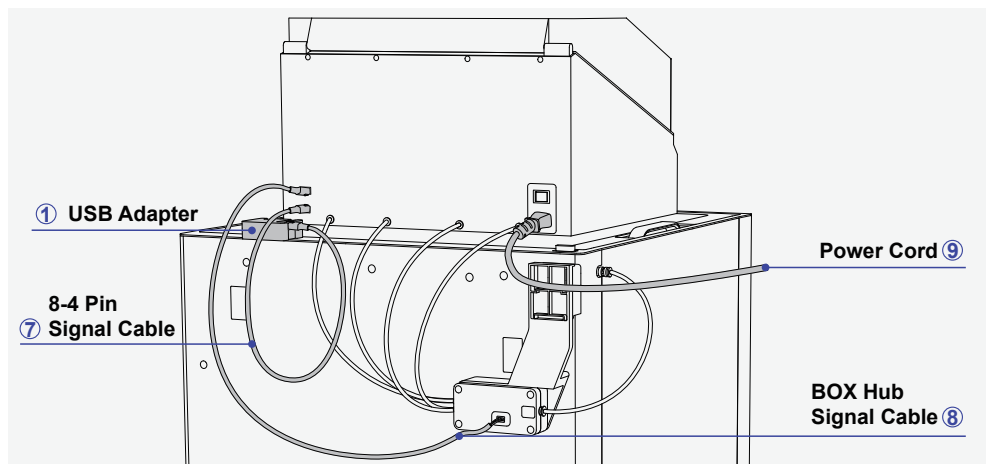
**PTFE Tube  
Buckle\*2**

The single-BOX model only comes with the above-mentioned accessories. Other accessories mentioned in the manual need to be purchased additionally.

## Connect QIDI BOX to PLUS4

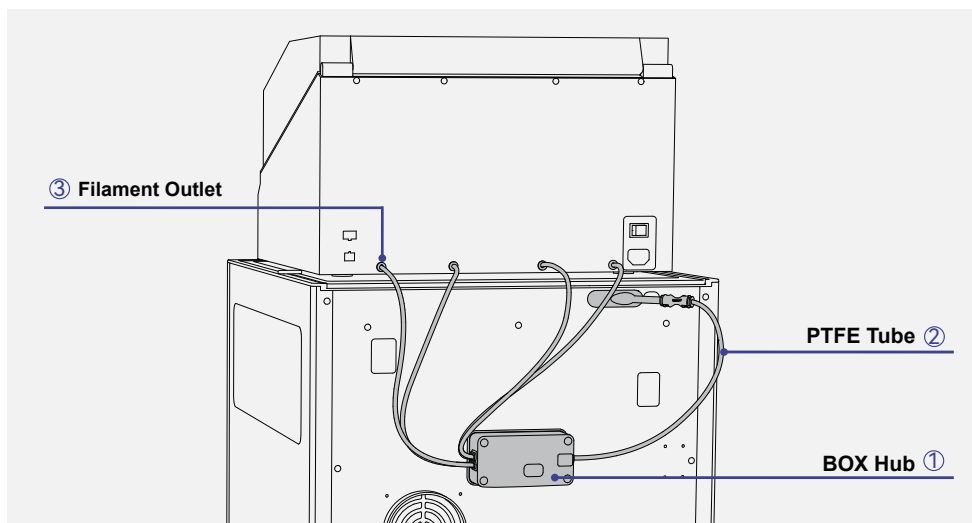


- ① Install the USB adapter. First, remove one screw from the USB interface, insert the USB adapter and screw in one M3\*10 screw. Once securely installed, remove the other screw from the USB interface and screw in the M3\*10 screw.
- ② Install the BOX Hub bracket fixing block (PLUS4's accessory) onto the back of the printer. If the filament bracket has been installed, simply remove it.
- ③ Install the BOX Hub and bracket to the fixing block.
- ④ Carefully place the glass cover and the QIDI BOX on top of the PLUS4.

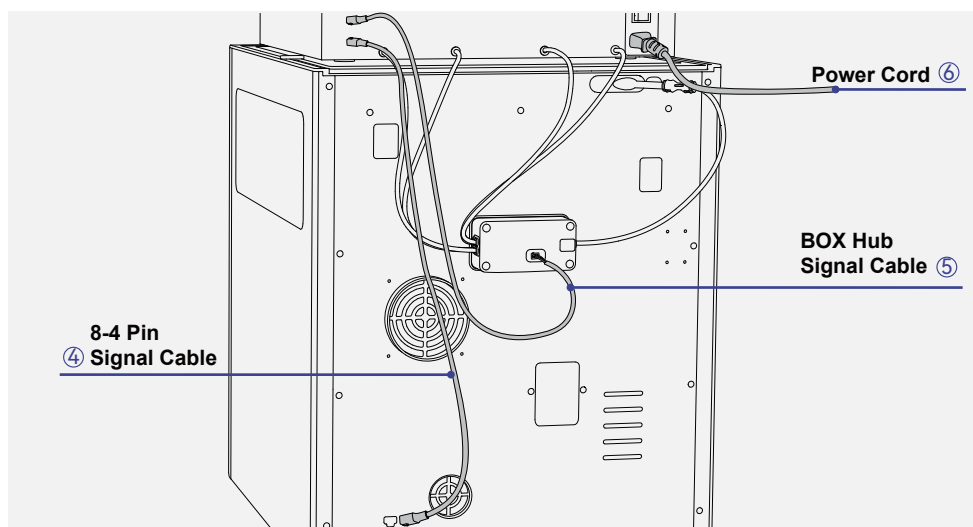


- ⑤ Insert one end each of the four 1000mm PTFE tubes into the outlet of QIDI BOX and the other end into the feed port on the left side of the BOX Hub.
- ⑥ Insert one end of the 350mm PTFE tube into the PLUS4's feed port and the other end into the outlet on the right side of the BOX Hub.
- ⑦ Connect the 8-pin interface of the 8-4pin signal cable to the USB adapter and the 4-pin interface to the QIDI BOX.
- ⑧ Connect the 8-pin interface of the BOX Hub signal cable to QIDI BOX, and the other end to the BOX Hub.
- ⑨ Connect the power cord to the power adapter interface of QIDI BOX.

## Connect QIDI BOX to Q2



- ① Install the BOX Hub on the back of the machine with screws.
- ② Prepare a PTFE tube, connect one end of the tube to the printer's feed port and the other end to the right side of the Hub.
- ③ Prepare four PTFE tubes, connect one end of the PTFE tube to the filament outlet of the BOX and the other end to the left side of the BOX Hub.

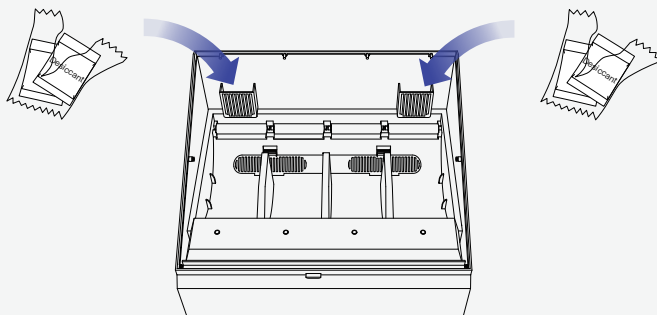


- ④ Prepare 8-4pin connecting wires, connect the 8pin interface end to the BOX, and connect the 4pin interface end to the BOX Hub.
- ⑤ Prepare the material selector signal line, connect the 8-pin interface to the printer, and connect the 4-pin interface to the BOX.
- ⑥ Connect the BOX power cord to the BOX power adapter interface.

## QIDI BOX Specification

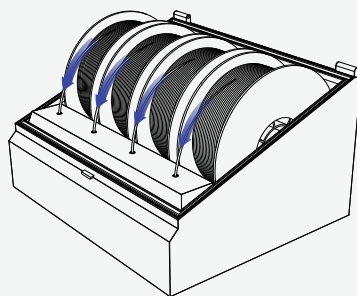
Item		QIDI BOX
Body	Dimensions	357*300*234mm <sup>3</sup>
	Packaging Dimensions	420*385*310mm <sup>3</sup>
	Net Weight	4.35kg
	Gross Weight	6kg
	Shell Material	ABS/PC
	Number of Filament Slot	4
	Expandable Number	≤4
	Filament Status Indicator Light	Independent Indicator Light for Each Slot
	Feed Gear Assembly	Reinforced Nylon/Hardened Steel
	Feed Motor	42-Stepper Motor*4
	Moisture Exhaust Outlet	Manual Switch
Printing	Supported Filament	PLA, PETG, ABS, ASA, PET, PA, PC, PVA (dried), BVOH (dried), PP, POM, HIPS, TPU 64D, ABS-CF/GF, PLA-CF/GF, PETG-CF/GF, PPS-CF, PET-CF/GF. (Note: This list applies to QIDI-branded filaments. Compatibility with filaments from other brands is not guaranteed.)
	Filament Not Supported	TPE, Generic TPU, PVA (damp), BVOH (damp), TPU 95A, QIDI PAHT-CF and other overly rigid or overly flexible filaments
	Filament Diameter	1.75mm
	Spool Dimension	Width: 50-72mm Diameter: 195-202mm
	RFID Identification	Supported
	Filament Supervision	Supports filament tangle detection, clog detection, and run-out detection.
	Automatic Filament Refilling	Automatic Switching to Spare Filaments
	Multi-color printing	Supports up to 16 colors (QIDI BOX and accessories need to be purchased separately)
	Filament Drying	Supports drying while printing
Drying	Maximum Temperature	65°C
	Supported Filament	PLA, ABS, ASA, PA, PC, PET, PETG, PPS, PLA Wood
	Sealed Storage	Supported
	Temperature and Humidity Supervision	Supported. Status data can be synchronized in real-time to the printer's display screen or QIDI Studio slicing software
	Placement of Desiccants	Supported
Power	Voltage	110V/220–240VAC, 50/60Hz (Specific models for specific regions are available)
	Maximum Rated Power	245W

## Remove the Desiccant Packaging Material



- Remove the sticker, take out the desiccant, and put it back in place after removing its outer packaging.

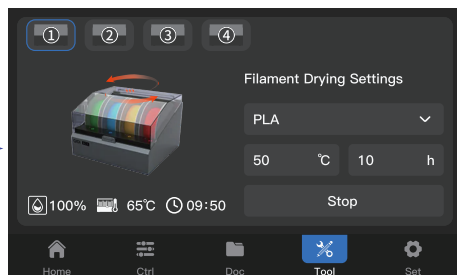
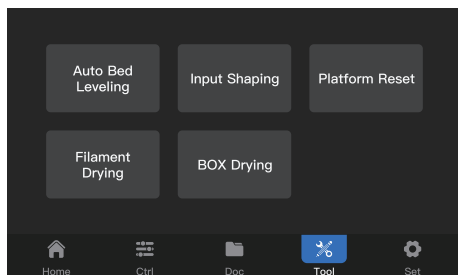
## Load Filaments into QIDI BOX



- ① After energizing, please put the filaments into any slot and ensure that the filament spools are correctly placed on the drive shaft as shown in the diagram.
- ② Insert the filaments into the feeders, and QIDI BOX will automatically detect and pre-load them. Once you confirm that the white indicator light near the feeder is continuously on, you can start printing.
- ③ When using QIDI's official RFID filaments, the QIDI BOX will automatically read the filament information during the pre-loading stage.
- ④ In case of abnormal feeding, please check the installation method of the spool or reinsert the filaments.

## QIDI BOX Drying Interface

\*The actual UI interface is subject to the system version



- Select "BOX Drying" on the tool interface, choose the filament type to be dried, then set the drying temperature and time. Click "Start" to begin drying.



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

**If you need support, please feel free to contact us:**

E-mail address: [Q2support@qidi3d.com](mailto:Q2support@qidi3d.com)  
[Q2support02@qidi3d.com](mailto:Q2support02@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.