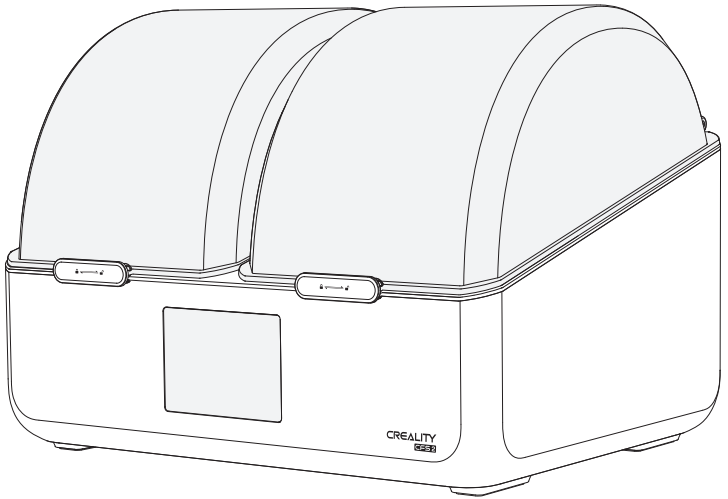
CREALITY

IMAGINE IT, MAKE IT



User Manual

CFS 2 Filament Management System

V 1.0_EN

CFS 2

Dear Users

Thank you for choosing Creality products. This quick guide introduces the steps for unboxing, installation, and debugging. Please read it carefully before use.

For more detailed instructions, unboxing videos, and after-sales service tutorials, please visit the Creality Wiki platform.

The Creality team is always ready to provide you with quality service. If you encounter any problems during use, please contact us through the phone number and email provided at the end of this quick guide.

Bought a product but don't know how to use it? Don't worry, all your confusions will be resolved!

Creality official Wiki

https://wiki.creality.com

- Comprehensive understanding of the new product, immersive exploration of its features.
- Detailed operation guides to help you get started effortlessly.
- Professional after-sales support platform offering efficient solutions.

Creality Cloud – Your 3D Printing Universe Awaits! Discover the all-in-one 3D printing platform designed for all enthusiasts.

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- Access a vast library of high-quality models.
- Built-in cloud slicing and Print Settings make printing easier than ever.
- Control remotely and print with just one click, anytime, anywhere.

Terms of Use

1. Do not attempt to use any operation methods not explicitly described in this manual to prevent accidental personal injury or property damage;
2. Do not place this device among flammable or explosive materials, or near high-heat sources. Please place the device in a well-ventilated, cool, and dust-free environment;

3. We highly recommend using the Creality Hyper plastic spool filament series. These materials have undergone extensive testing and can be used with confidence;

4. Do not use power cords other than the one provided with the device during installation. Ensure the power plug is plugged into a grounded 3-prong electrical outlet;

5. To prevent clogging or jamming, do not use damp PVA or BVOH filaments for printing;

6. To prevent spool jamming and eliminate safety hazards during the drying process, do not use cardboard spools;

7. In drying mode, the internal temperature of the device can reach up to 85℃. Certain contact zones may become extremely hot. Do not open the chamber door or maintain prolonged contact with internal components while the device is running;

8. The device generates heat during operation. Please ensure adequate surrounding ventilation and avoid covering the unit or placing it near flammable items;

9. After prolonged operation, allow the device to cool down completely before performing any maintenance or moving it;

10. Key components of this device are constructed from UL94V-0 rated flame-retardant materials; however, the device itself is not fireproof. Do not operate the device under extreme conditions;

11. Users must strictly comply with the relevant laws and regulations of the country or region where the device is located, adhere to professional ethics, and fulfill safety obligations. It is strictly prohibited to use our products or device for any illegal purposes.The company assumes no legal liability arising from any violations.

12.Tip: Do not plug in or unplug wires on a charged basis.

13.Creality places the highest priority on the protection of human life and safety. By using our products or services, you represent and warrant that the products or services acquired will not be used, directly or indirectly, for any purpose that may endanger the health or safety of individuals. This includes, without limitation, the design, development, manufacture, or distribution of weapons or weapon-related components.

14. The full text of the EU Declaration of Conformity is available at the following internet address https://wiki.creality.com/en/euro-compliance

15. Hereby, SHENZHEN CREALITY 3D TECHNOLOGY CO., LTD declares that the radio equipment type is in compliance with Directive 2014/53/EU.

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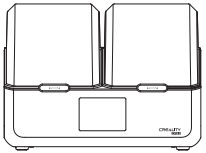
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1. Device information

1.2 Package contents

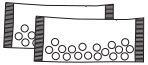
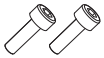
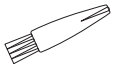


(1) CFS 2 main unit



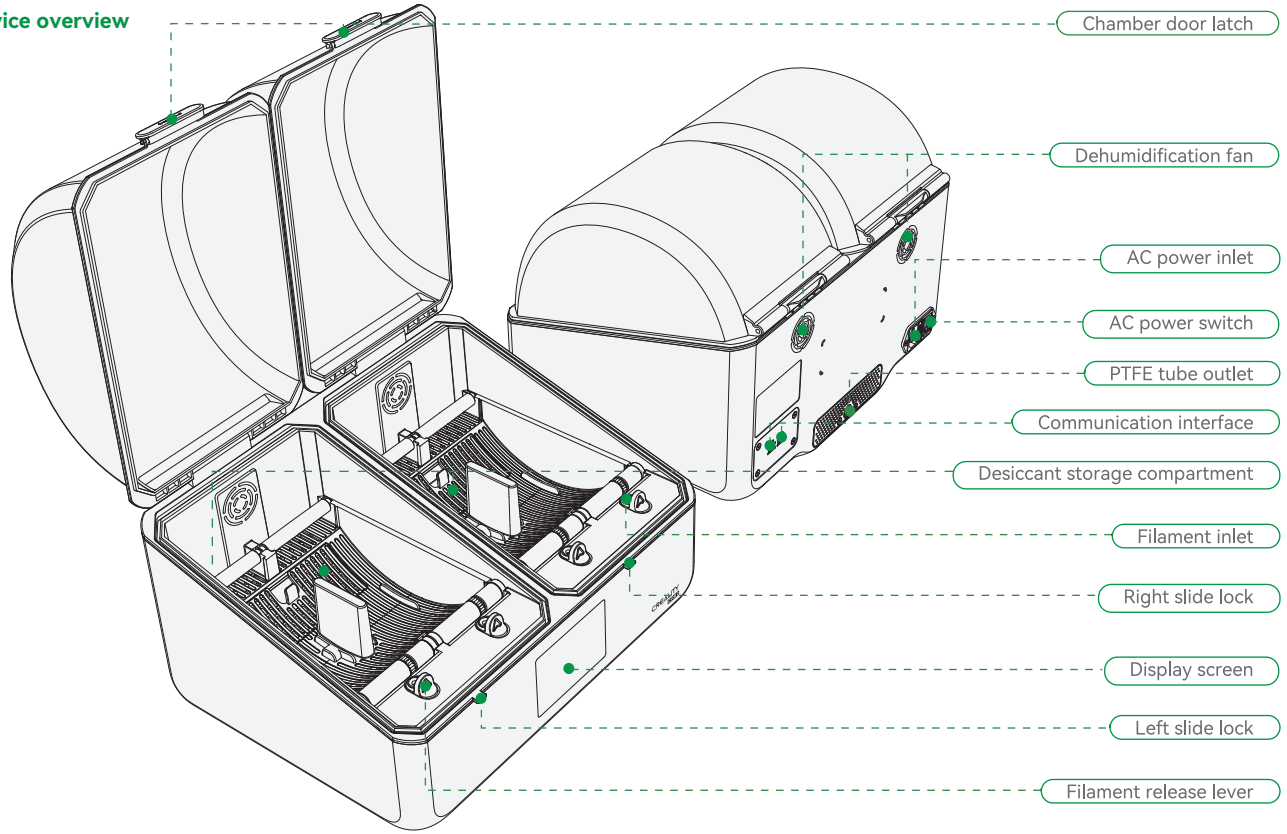
(2) Filament buffer

Accessory pack

 (1) Filament buffer communication cable	 (2) Printer communication cable	 (3) Power cord	 (4) PTFE tube ×7 (including 5 spares)	 (5) Desiccant ×2
 (6) Hex socket screw ×2	 (7) Hex key wrench	 (8) Cleaning brush	 (9) Buffer double-sided tape (spare)	 (10) Creality Cloud card
 (11) After-sales service card	 (12) After-sales service card	Notice: The accessories listed above are for reference only. Please refer to the actual product.		

1. Device overview

1.1 Device overview



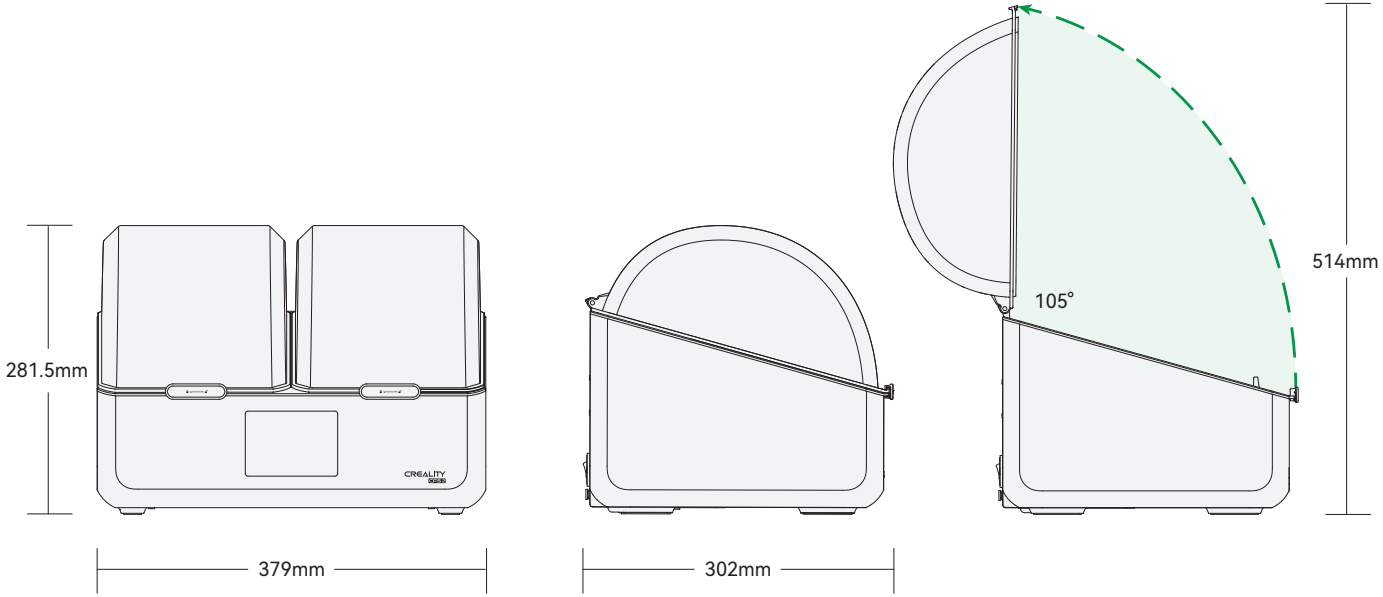
1. Device information

1.3 Device specifications

General specifications	
Model	CFS 2
Product dimensions	379*302*281.5mm
Net weight	5.0kg
Number of filament slots	2+2
Rated voltage	100-240V~, 50/60Hz
Power consumption	Max Power：330-1900W Steady-state power：210-250W
Display screen	LCD display
Indicator lights	Integrated into the display screen
Drying method	Dehumidification: supports humidity-sensing dehumidification and automatic dehumidification during printing Drying: supports intelligently recommended drying temperature and time, max. temperature: 85℃.
Device daisy-chaining	≤4 units
Automatic filament refeed	Supported
Filament Tangle Detection	Supported
RFID filament	Supports identification of Creality RFID filament
Filament remaining management	Remaining quantity recording, display, and status updates of filament supported
Diameter of filament supported	1.75 ± 0.05mm
Compatible filament spool specifications	Diameter197-203mm，Thickness50-68mm（Cardboard spools not supported）
Supported filament types	PLA、PETG、ABS、PET、ASA、PA、PC、PP、Dried PVA、BVOH PLA-CF、PLA-GF；PETG-CF、PETG-GF；ABS-FR...

1. Device information

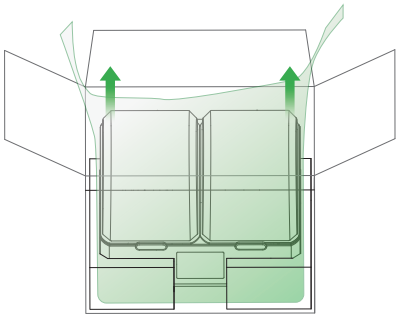
1.4 Device dimensions



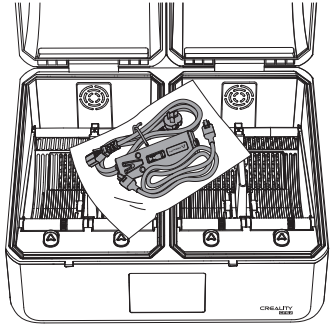
2. Unboxing setup

2.1 Unboxing and placing the desiccant

1. Remove the CFS 2 main unit from its packaging.

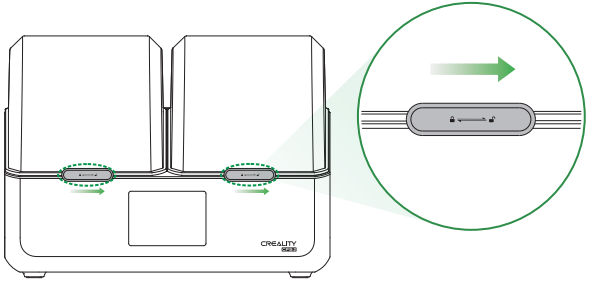


3. Remove the pre-installed buffer, power cord, and other accessories.



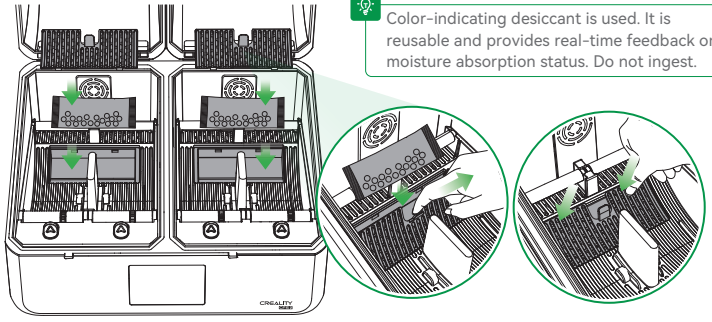
For compatible printer models that have already been purchased, a printer firmware upgrade is required before this product can be used.

2. Push the chamber door latch to unlock and open the top cover.



4. Open the desiccant storage compartment lid, remove the desiccant from its outer packaging, place it inside the compartment, and then reattach the top cover.

Color-indicating desiccant is used. It is reusable and provides real-time feedback on moisture absorption status. Do not ingest.

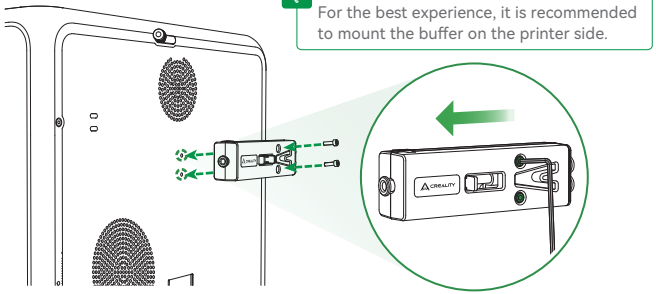


2. Unboxing setup

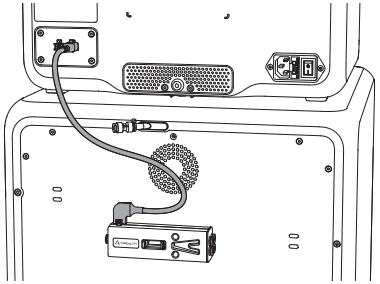
2.2 PTFE cable and PTFE tube connections

1. Remove the buffer and its mounting screws, and secure the buffer to the rear of the printer.

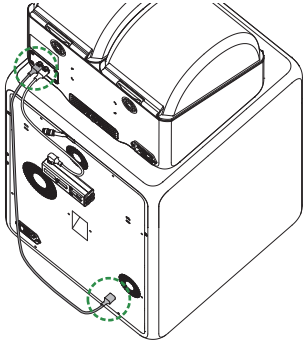
For the best experience, it is recommended to mount the buffer on the printer side.



2. Connect the short communication cable between the CFS 2 main unit and the buffer.

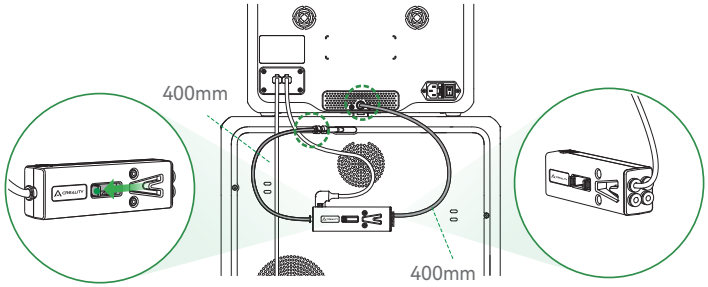


3. Connect the long communication cable between the CFS 2 main unit and the printer.



4. Take a PTFE tube and first connect the CFS 2 main unit to the buffer 5-way fitting, and connect the buffer to the printer.

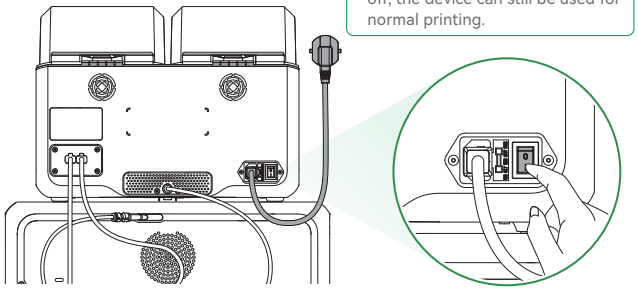
Cut the tube to the appropriate length based on device placement before use.



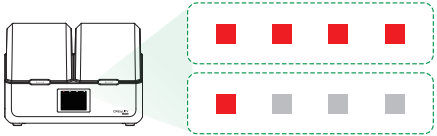
2. Unboxing setup

5. Insert the power cord into the CFS 2 main unit, connect it to an AC power source, and turn on the power switch.

The electric reheat dehumidification function requires AC power to be turned on. When AC power is off, the device can still be used for normal printing.

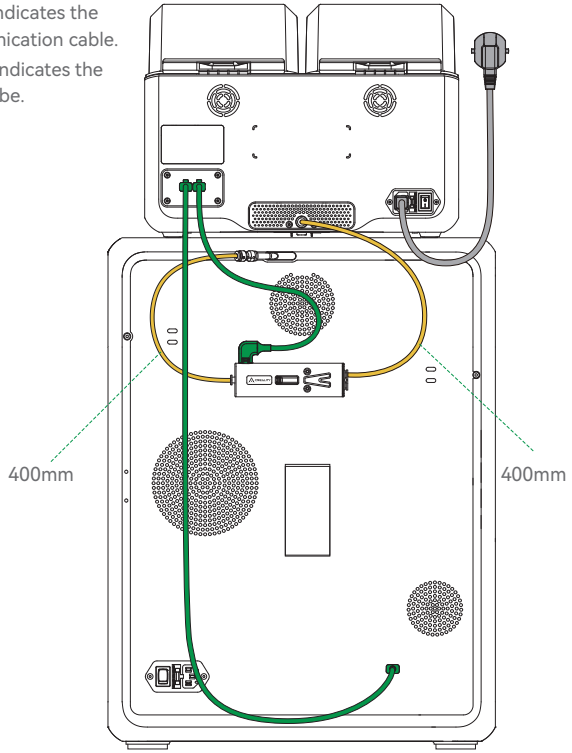


After the printer is powered on, the 4 red indicator lights on the CFS 2 main unit display screen will illuminate simultaneously. While the device is automatically establishing a connection with the printer, the red indicator lights will flash in sequence. Once the connection is established successfully, the indicator lights will turn white.



6. Single-unit connection diagram

- Green indicates the communication cable.
- Yellow indicates the PTFE tube.



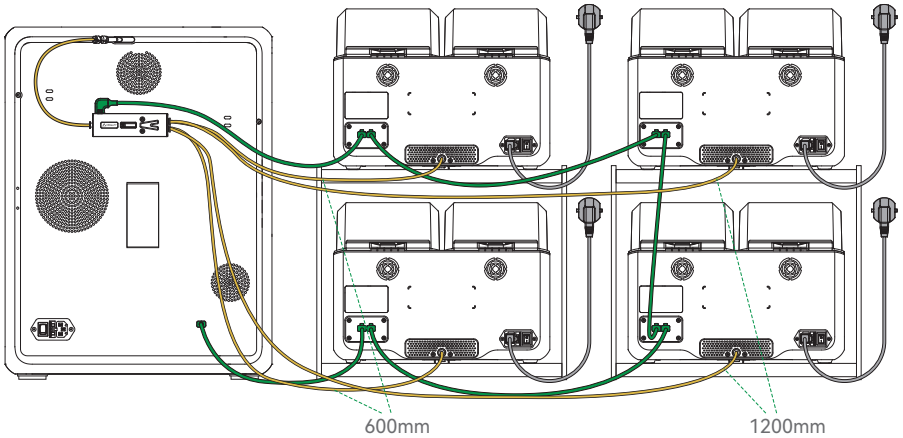
2. Unboxing setup

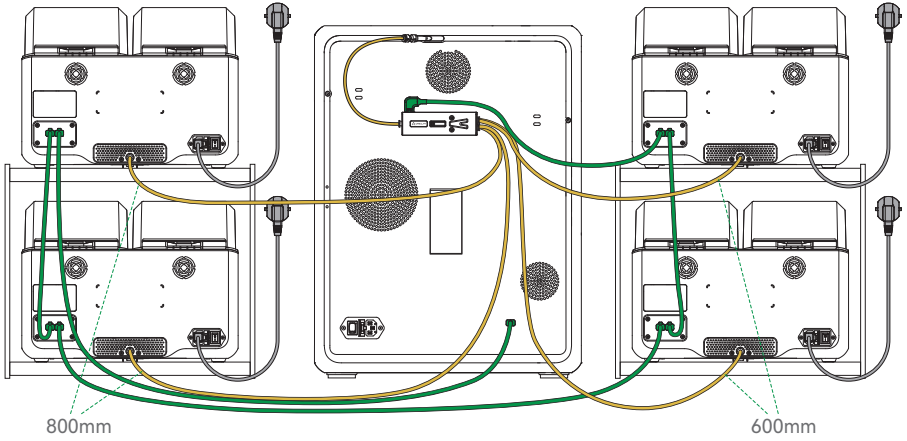
7. Multi-unit daisy-chain diagram

- Green indicates the communication cable.
- Yellow indicates the PTFE tube.

Simultaneous daisy-chaining of CFS Pro and CFS to the same printer is supported. Actual compatibility is subject to the official firmware version.

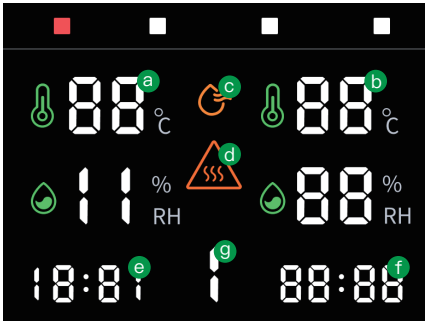
The diagrams above show a typical connection configuration. Actual connections may vary depending on device configuration and usage requirements.





3. Instructions for use

3.1 Display screen information



- a Real-time temperature and humidity in the left chamber;
- b Real-time temperature and humidity in the right chamber;
- c Automatic dehumidification mode on;
- d Drying mode on; When the icon turns red, the surface of the top cover is hot. Do not touch it for extended periods to avoid burns.
- e Remaining drying time after drying is enabled for the left and right chambers;
- f Automatic dehumidification duration;
- g CFS 2 ID after connecting to the printer.

1. The indicator light statuses are as follows:



Solid white: Filament is loaded in the slot and the unit is idle.



Breathing white: Filament is loaded in the slot and the unit is busy, such as feeding filament or reading RFID information.



Flashing red: An error occurs during printing or preloading.



Sequentially flashing white: All four filament slots are empty.



Sequentially flashing red: A communication connection is being established or a communication error has occurred.



White and red both off:

1.When filament is loaded in one slot, the LEDs of the other empty slots remain off. This is normal.

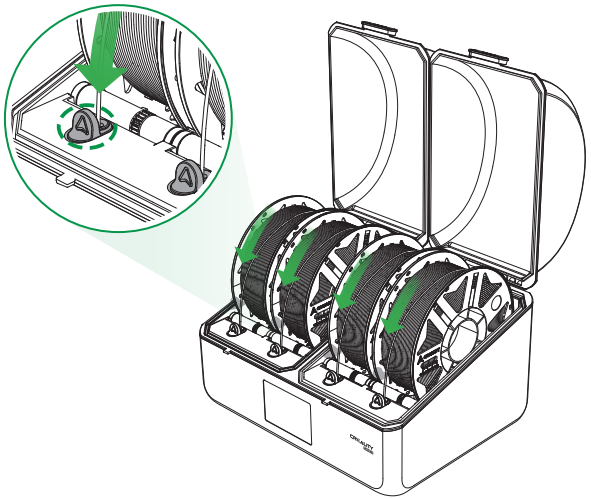
2.When all four slots are empty, if the LED of any slot remains off, an error has occurred and the slot should be checked.

3. Instructions for use

To ensure stable filament feeding, it is recommended to replace the black neutral spool and black solid spool with Hyper series filament spools.; To prevent spool jamming and eliminate safety hazards during the drying process, do not use cardboard spools.

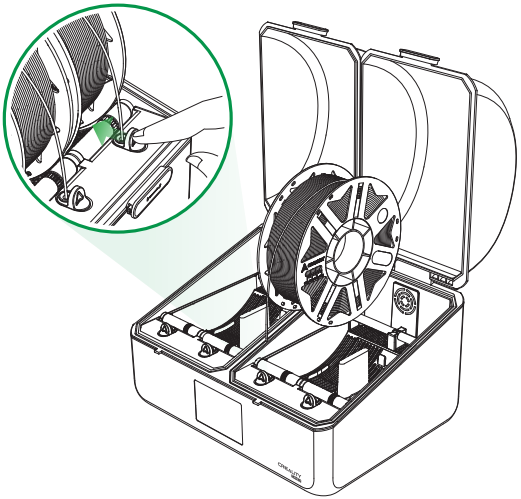
2. Loading/Unloading filament:

Loading filament: Place the filament into the CFS 2 and align the filament tip with the slot opening. Gently push the filament in. When you feel the filament being pulled in, release it. The filament will load automatically.



Unloading filament: First, make sure the filament has been retracted into the CFS 2 main unit, then simply lift and pull out the filament. If the filament is inside the extruder, first tap "Unload" and follow the on-screen instructions. Wait until the filament has been retracted into the CFS 2, then remove it.

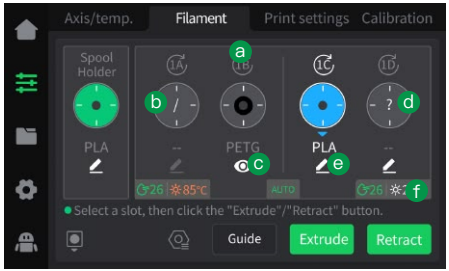
Move the filament release lever to make the filament easier to remove.



3. Instructions for use

3.2 Filament editing/reading

1. Filament management interface overview: The filament management page is divided into two sections: the external holder [left] and CFS 2 [right].



a. The Preload button. Tap it to read the filament information. Once the information is successfully read, the remaining filament and filament color will be displayed.

b. Empty slot status. The slot is displayed as "/", and filament information cannot be edited in this state.

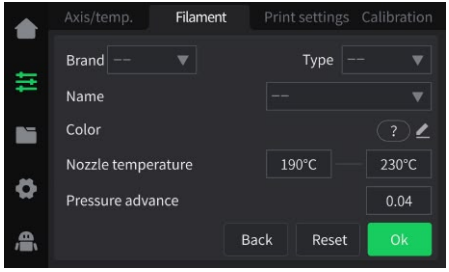
c. RFID filament successfully read. Tap the eye icon to view the filament information. RFID filament can only be viewed and cannot be edited. If RFID filament is currently loaded but you need to use non-RFID filament next, tap the Preload button and wait for the reading to complete before tapping the Edit Filament button.

d. RFID filament not detected. The filament is displayed as "?". Tap the Edit button to manually enter the filament information.

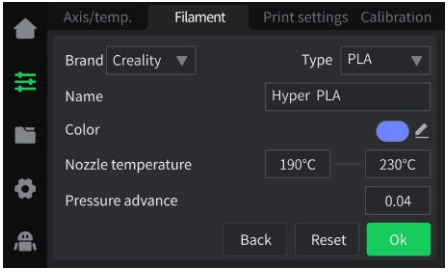
e. Non-RFID filament. Filament information can be edited.

f. CFS 2 temperature and humidity status. Tap it to open the filament drying settings page.

2. Manually set parameters: filament brand, type, color, etc.

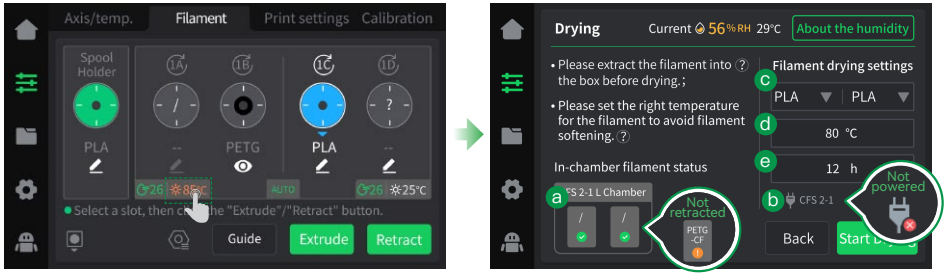






3. Instructions for use

3. Drying settings:



a The filament in the current chamber is stored and meets the conditions for starting the drying process.

b Before enabling the drying function, make sure the AC power supply is connected and switched on.

c The two filament types for the current chamber are set to PLA by default. Select the appropriate filament types based on the actual filaments used.

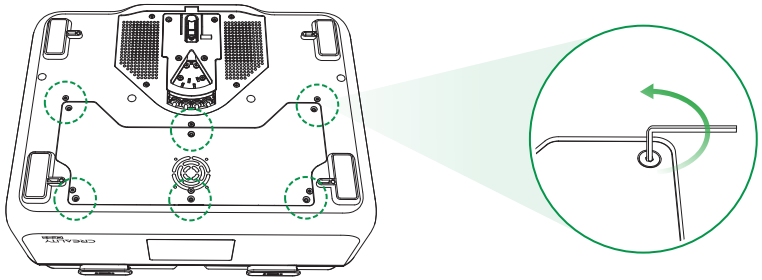
d The system intelligently matches a preset drying temperature based on the filament in the current chamber. The temperature can be adjusted manually.

e The system intelligently matches a preset drying duration based on the filament in the current chamber. The duration can be adjusted manually.

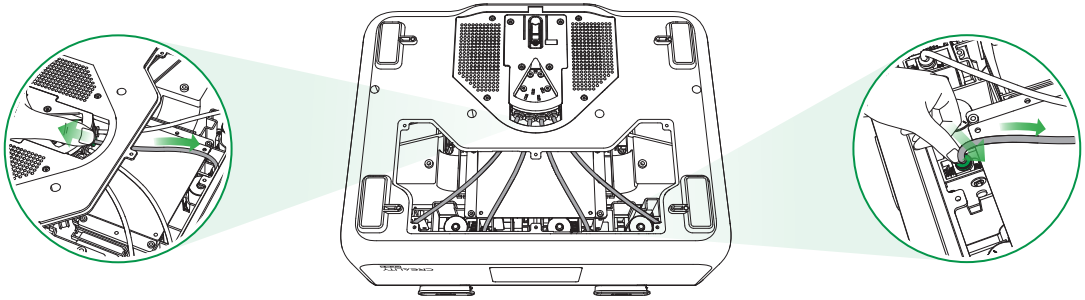
4. Tips and routine maintenance

4.1 Replacing the internal PTFE tube

1. Use an H2.0 hex key to remove the six screws and take off the cover.



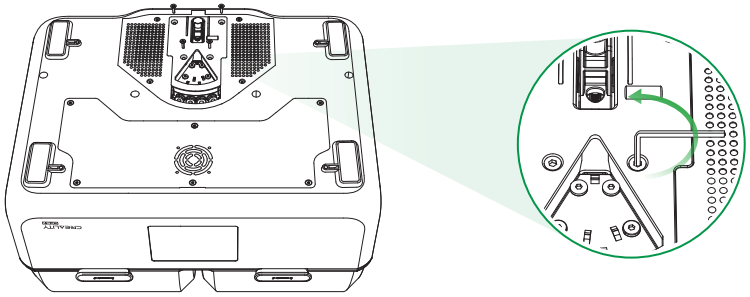
2. Press both ends of the pneumatic fittings as shown below, then pull out the PTFE tube for replacement.



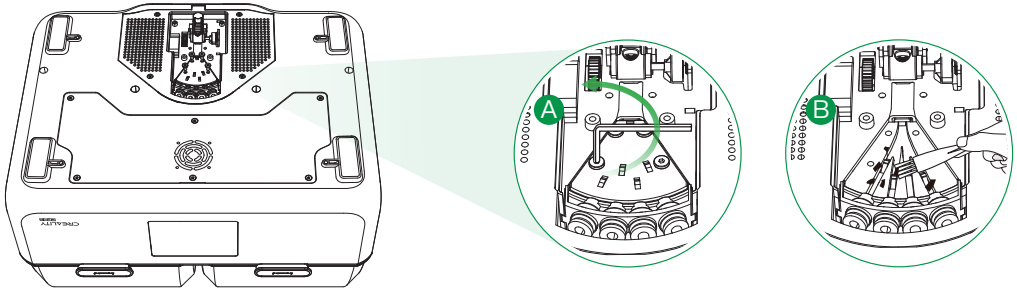
4. Tips and routine maintenance

4.2 Cleaning debris from the 5-way fitting

1. Use an H2.0 hex key to remove the four screws securing the outer cover.



2. A: Use an H2.0 hex key to remove the four screws securing the transparent cover.
   B: Use the included brush to clean the debris inside. Reinstall the parts in the reverse order of disassembly.



Due to the differences between different machine models, the actual objects and the images can differ. Please refer to the actual machine.
The final explanation rights shall be reserved by Shenzhen Creality 3D Technology Co., Ltd.

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