

Creality Space Pi Plus

Creality Space Pi Filament Dryer Plus User Manual

Model: Space Pi Plus

1. INTRODUCTION

The Creality Space Pi Filament Dryer Plus is designed to maintain optimal filament conditions for 3D printing. It effectively removes moisture from various filament types, improving print quality and preventing common issues like stringing, clogging, and poor layer adhesion. This manual provides essential information for the safe and efficient operation of your device.

2. SAFETY INFORMATION

Please read all safety instructions before operating the device to prevent injury or damage.

- Do not expose the device to water or moisture.
- Ensure the power supply matches the device's requirements.
- Keep the device away from flammable materials.
- Do not block ventilation openings during operation.
- Unplug the device before cleaning or maintenance.
- Do not attempt to disassemble or repair the device yourself. Contact customer support for assistance.
- Operate the device in a well-ventilated area.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Creality Space Pi Filament Dryer Plus Unit
- Power Adapter
- User Manual
- PTFE Tubing (for direct feeding to printer)

4. PRODUCT FEATURES

- **Dual Roll Capacity:** Supports two 1kg filament rolls (1.75mm or 2.85mm) simultaneously, with four filament outlets for multi-printer setups.
- **PTC 360° Hot Air Heating:** Equipped with a 110W PTC heater and built-in fan for uniform heat distribution, preventing uneven drying and moisture-related printing issues.
- **Adjustable Temperature:** Freely adjustable drying temperature from 45°C to 70°C.
- **Adjustable Drying Time:** Set drying duration from 0 to 48 hours for effective moisture removal.
- **3.7-inch LCD Touch Screen:** Provides real-time monitoring of humidity and temperature, allowing precise control over the drying process.
- **One-Click Presets:** Easy one-click setting for drying parameters of up to 12 common filament types (PLA, TPU, PP, ABS, ASA, PETG, PC, PA, PET, PLA-CF, PETG-CF, PA-CF).
- **Parameter Power-Off Memory:** Retains previous material and temperature settings after a power interruption, eliminating the need for reset.



Image: Creality Space Pi Filament Dryer Plus showing its main features including dual roll capacity, temperature control, drying time, PTC heating, and one-key presets.

5. SETUP

1. **Unpacking:** Carefully remove the filament dryer from its packaging and ensure all components are present.
2. **Placement:** Place the dryer on a stable, flat surface in a well-ventilated area, away from direct sunlight or heat sources.
3. **Power Connection:** Connect the power adapter to the dryer's power input port, then plug the adapter into a suitable power outlet.
4. **Loading Filament:**
 - Open the top cover of the dryer.
 - Place one or two filament spools onto the internal rollers. Ensure the filament unwinds smoothly.
 - If using for direct printing, feed the filament through one of the designated outlets and connect it to your 3D printer's extruder.
 - Close the top cover securely.

2つのロールの容量設計

1kgフィラメント2ロールをサポートし、
2台のプリンターで乾燥しながら印刷しますのユーザーの
ニーズを満たすために4つのフィラメント穴も備えています。



Image: The filament dryer supporting two rolls and feeding filament to two separate 3D printers.

6. OPERATING INSTRUCTIONS

1. **Power On:** Press the power button on the device. The LCD touch screen will illuminate.
2. **LCD Touch Screen Overview:** The 3.7-inch LCD displays real-time temperature, humidity, and drying countdown. Use the touch controls to navigate settings.
3. **Selecting Filament Type (One-Click Presets):**
 - On the main screen, select the 'Material' option.
 - Choose from the 12 pre-set filament types (e.g., PLA, ABS, PETG). The device will automatically apply recommended temperature and time settings.
4. **Manual Temperature Adjustment:**
 - If manual adjustment is desired, select the 'Temperature' setting.
 - Use the up/down arrows to set the desired temperature between 45°C and 70°C.
5. **Manual Drying Time Adjustment:**
 - Select the 'Time' setting.
 - Use the up/down arrows to set the desired drying duration between 0 and 48 hours.
6. **Starting/Stopping Drying:**
 - Once settings are confirmed, press the 'Start' button (usually a play/power icon) to begin the drying process.
 - To stop drying, press the 'Stop' button (usually a pause/power icon).
7. **Parameter Power-Off Memory:** The device automatically saves your last settings. If power is interrupted, it will recall these settings upon restart.

LCDタッチスクリーン

Creality Space Pi フィラメントドライヤープラスには、
4インチのタッチスクリーンが搭載されています。
タッチスクリーンを搭載しており、乾燥状況を簡単に確認することができます。

乾燥カウントダウン

リアルタイム温度

リアルタイム湿度



Image: Close-up of the LCD touch screen interface showing drying countdown, real-time temperature, and humidity.

Recommended Drying Temperatures for Filaments

Filament Type	Temperature (°C)	Drying Time (h)
PLA	50	4-8
TPU	55	4-8
PP	55	4-8
ABS	65	8-12
ASA	60	8-12
PETG	60	4-8
PC	65	8-12
PA	65	≥12

Filament Type	Temperature (°C)	Drying Time (h)
PET	60	4-8
PLA-CF	50	4-8
PETG-CF	60	4-8
PA-CF	65	≥12

Table: Recommended drying temperatures and times for various filament types.

7. MAINTENANCE

- **Cleaning:** Ensure the device is unplugged and cooled down before cleaning. Wipe the exterior with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Internal Cleaning:** Periodically check the internal rollers and filament path for any dust or filament debris. Clean gently with a soft brush or compressed air if necessary.
- **Desiccant Compartment:** The dryer features a dual desiccant storage compartment. While the device actively dries filament, you can also place desiccant packs in this compartment for passive moisture absorption when the device is off or for long-term storage. Replace desiccant packs as needed.
- **Storage:** When not in use for extended periods, unplug the device and store it in a dry, dust-free environment.



Image: Details of the dryer, including the power switch, moisture-proof silicone plug, and dual desiccant storage.

8. TROUBLESHOOTING

- **Device Not Powering On:**
 - Check if the power adapter is securely connected to both the device and the power outlet.
 - Ensure the power outlet is functional.
- **Filament Not Drying Effectively:**
 - Verify that the correct filament type and corresponding temperature/time settings are selected. Refer to the recommended drying temperatures table.
 - Ensure the top cover is securely closed to maintain internal temperature and humidity.
 - For very wet filament, a longer drying time may be required.
- **"EA" Error Displayed (Low Ambient Temperature):**

- If the ambient room temperature is below approximately 15°C, the device may display an "EA" error and not operate.
- To resolve this, warm the room or the interior of the dryer (e.g., by placing it in a warmer area) until the internal temperature rises above the threshold.

- **Filament Not Feeding Smoothly:**

- Check for any tangles or knots on the filament spool.
- Ensure the filament path through the dryer outlets and to the printer is clear and unobstructed.
- Inspect the internal rollers for debris that might impede spool rotation.

- **Touch Screen Unresponsive:**

- Gently clean the screen surface with a soft, dry cloth.
- Try restarting the device by unplugging and re-plugging the power.

9. SPECIFICATIONS

Feature	Specification
Model Number	Space Pi Plus
Brand	Creality
Filament Compatibility	1.75mm, 2.85mm (PLA, PETG, ABS, TPU, ASA, etc.)
Capacity	2 rolls (up to 1kg each)
Temperature Range	45°C - 70°C
Heating Method	PTC 360° Hot Air Heating
Heater Power	110W
Drying Time Setting	0 - 48 hours
Display	3.7-inch LCD Touch Screen
Material	Metal
Product Dimensions	22cm (depth) x 34cm (width) x 30cm (height)
Product Weight	1 kg

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Creality customer support through their official website or the retailer where the product was purchased. Please have your product model number (Space Pi Plus) and purchase details available when contacting support.