SUNLU S1 Plus

SUNLU S1 Plus Filament Dryer Instruction Manual

Model: S1 Plus | Brand: SUNLU

INTRODUCTION

The SUNLU S1 Plus Filament Dryer is designed to remove moisture from 3D printer filaments, which can absorb humidity from the air. Drying filament helps prevent common printing issues such as stringing, clogging, and poor adhesion, leading to improved print quality and smoother model surfaces. This manual provides detailed instructions for the proper use and maintenance of your S1 Plus Filament Dryer.

PRODUCT OVERVIEW

The SUNLU S1 Plus features a built-in circulation fan for uniform heating, a 2-inch LCD screen for displaying temperature and time, and two control buttons for easy operation. It is compatible with various filament types and diameters.
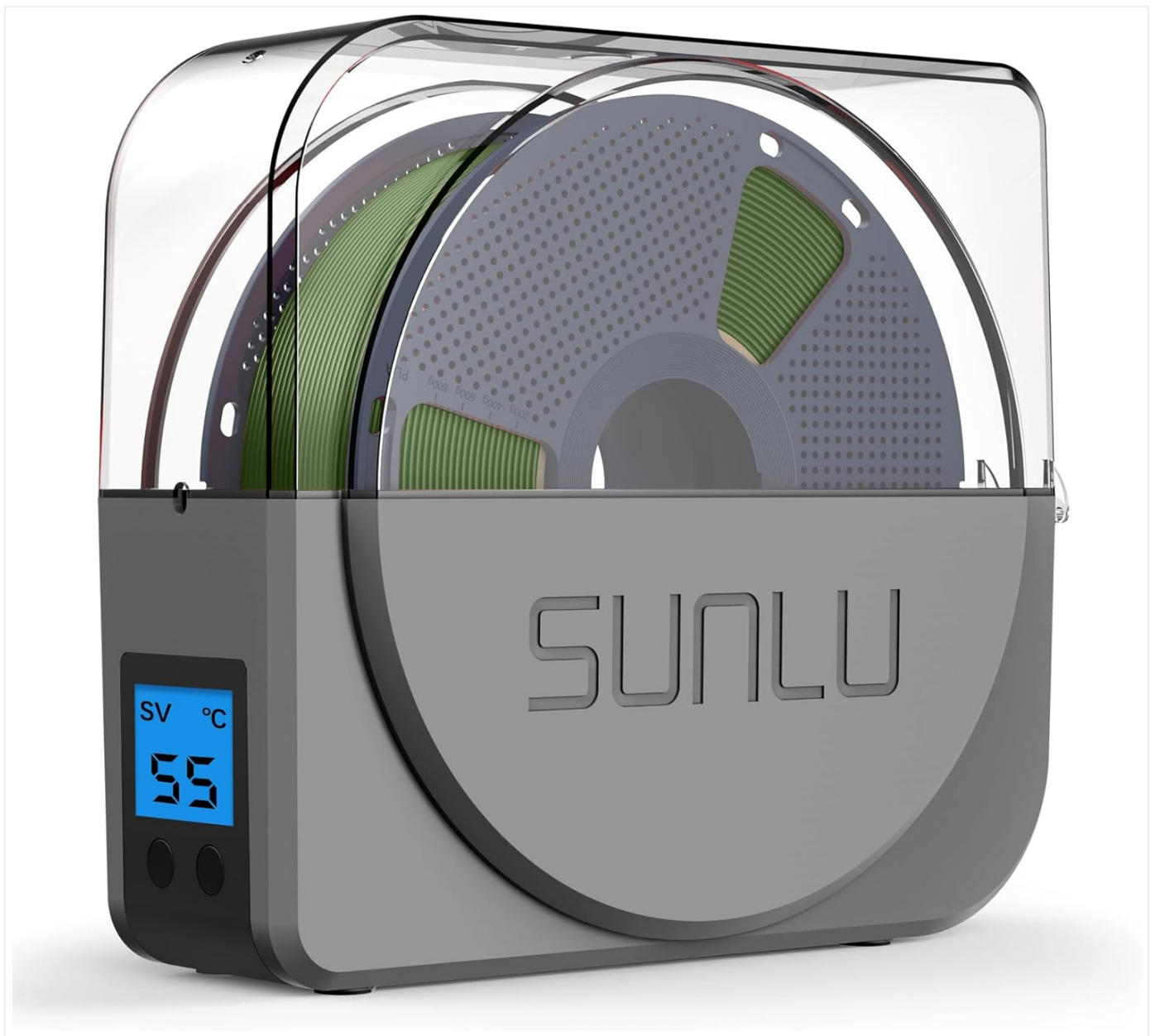
Figure 1: The SUNLU S1 Plus Filament Dryer, showing the clear lid and control panel.

Key Features:

- **360° Hot-air Circulation:** Ensures uniform heating and effective moisture removal.
- **Easy Operation:** Two-button control with a clear LCD screen for temperature and time settings.
- **Adjustable Settings:** Customizable drying time (0-24 hours) and temperature (35°C-55°C).
- **Wide Compatibility:** Supports 1.75mm, 2.85mm, and 3.00mm filament diameters.
- **Low Noise Operation:** Operates quietly, less than 10dB.
- **Print While Drying:** Designed with rollers to allow filament to be used directly from the dryer during printing.

SETUP INSTRUCTIONS

1. **Unpack the Dryer:** Carefully remove the SUNLU S1 Plus Filament Dryer and all accessories from its packaging. Ensure all components are present: the dryer unit, power adapter, and user guide.

2. **Connect Power:** Insert the power adapter cable into the power port located at the back of the dryer unit. Plug the power adapter into a standard electrical outlet.

3. **Load Filament:** Open the transparent lid of the dryer. Place a spool of 3D printer filament onto the rollers inside the dryer. Ensure the filament unwinds smoothly.

4. **Close Lid:** Securely close the transparent lid.

Figure 2: Visual guide for initial setup and operation steps.

OPERATING INSTRUCTIONS

The S1 Plus features a simple two-button interface for setting drying parameters.

Function Diagram

Perfect for effortless efficiency!
One-touch operation
Smart time control
Super easy to use

1

2-inch LCD Screen

SV °C

55

2

Left button

3

Right button

Figure 3: Control panel layout with LCD screen and buttons.

1. **Power On:** Press the left button to turn on the device. The LCD screen will illuminate, displaying the current temperature and default drying time.

2. **Set Temperature:**

   - Press and hold the left button to enter temperature setting mode. The temperature value will flash.
   - Use the left and right buttons to adjust the desired drying temperature between 35°C and 55°C.

- Press the left button again to confirm the temperature setting.

3. **Set Drying Time:**

    - Press and hold the right button to enter time setting mode. The time value will flash.
    - Use the left and right buttons to adjust the desired drying time between 0 and 24 hours.
    - Press the right button again to confirm the time setting.

4. **Start Drying:** Once temperature and time are set, the dryer will begin the drying process automatically. The LCD will display the current temperature and remaining time.

5. **Stop Drying:** To stop the drying process before the timer expires, press and hold the left button until the display turns off.

Recommended Drying Temperatures and Times:

The following table provides general recommendations. Optimal settings may vary based on filament brand, age, and ambient humidity.

Figure 4: Recommended drying settings for common filament types.

Material	Drying Temperature	Drying Time
PLA	45-50°C	3-6 hours
PLA Plus	45-50°C	3-6 hours

Material	Drying Temperature	Drying Time
WOOD	45-50°C	3-6 hours
PVB	45-50°C	3-6 hours
ABS	50-55°C	3-6 hours
ASA	50-55°C	3-6 hours
HIPS	50-55°C	3-6 hours
PC	50-55°C	3-6 hours
PETG	48-52°C	3-6 hours
TPU	48-52°C	3-6 hours

MAINTENANCE

- **Cleaning:** Ensure the device is unplugged before cleaning. Wipe the exterior with a soft, dry cloth. Do not use abrasive cleaners or immerse the unit in water.
- **Storage:** When not in use for extended periods, store the dryer in a cool, dry place away from direct sunlight.
- **Filament Storage:** For best results, store dried filament in airtight containers with desiccant packs to prevent re-absorption of moisture.

TROUBLESHOOTING

Problem: Dryer does not power on.

Solution: Check if the power adapter is securely connected to both the dryer and the electrical outlet. Ensure the outlet is functioning correctly.

Problem: Filament is still wet after drying.

Solution:

- Verify that the correct temperature and drying time were set for the specific filament type. Refer to the "Recommended Drying Temperatures and Times" table.
- Increase the drying time or temperature within the recommended range.
- Ensure the lid is properly closed to maintain the internal environment.

Problem: Display is not working correctly.

Solution: Try unplugging the dryer, waiting for 30 seconds, and then plugging it back in to reset the device.

SPECIFICATIONS

Feature	Detail
Model	S1 Plus
Brand	SUNLU
Item Weight	2.2 pounds (approx. 1 kg)

Feature	Detail
Package Dimensions	11.54 x 10.98 x 4.29 inches
Filament Diameter Compatibility	1.75mm, 2.85mm, 3.00mm
Temperature Setting Range	35°C - 55°C
Time Setting Range	0 - 24 hours
Working Noise	<10dB
Maximum Working Current	1.8A
Maximum Working Power	48W

WARRANTY AND SUPPORT

The SUNLU S1 Plus Filament Dryer comes with a one-year warranty period. For professional technical support, after-sales service, or any questions regarding your SUNLU Filament Dehydrator Box, please contact SUNLU customer service. They aim to reply to emails quickly during working hours.

Please refer to the official SUNLU website or your purchase documentation for the most current contact information and detailed warranty terms.

Related Documents - S1 Plus

	SUNLU S1 Plus Filament Dryer: Installation and User Guide Comprehensive guide for the SUNLU S1 Plus Filament Dryer, covering installation, operation, and maintenance for 3D printer filament. Ensure optimal filament dryness for high-quality prints.
	SUNLU FilaDryer S2 3D Printing Filament Dryer User Manual Comprehensive user manual for the SUNLU FilaDryer S2, a 3D printing filament dryer. Learn about setup, operation, personalized settings, troubleshooting, and specifications for optimal filament drying.
	SUNLU FilaDryer S2: User Manual and Guide for Filament Drying Comprehensive user manual for the SUNLU FilaDryer S2, detailing setup, operation, personalized settings, troubleshooting, and tips for optimal 3D printing filament drying. Learn how to dry PLA, PETG, ABS, and more.

	[SUNLU FilaDryer S4 User Guide - 3D Printing Filament Dryer](#) Comprehensive user guide for the SUNLU FilaDryer S4, a 3D printing filament dryer. Learn about setup, operation, troubleshooting, and recommended drying temperatures for various filament types.
	[SUNLU FilaDryer S4 User Manual](#) User manual for the SUNLU FilaDryer S4, providing instructions on setup, operation, functions, troubleshooting, and warranty information for drying 3D printing filament.
	[SUNLU FilaDryer S4 User Guide for 3D Printing Filament](#) Official user guide for the SUNLU FilaDryer S4, a device designed to dry and store 3D printing filaments, ensuring optimal printing quality. Learn about setup, operation, and maintenance.

Documents - SUNLU – S1 Plus

SUNLU FilaDryer S1 Plus
Indeks: **251711** Producent: **Sunlu** Kod producenta: **Not_applicable-6714359**

Cena: 350.24 zł

Opis

SUNLU FilaDryer S1 Plus
Producent: Sunlu

SUNLU FilaDryer to innowacyjne rozwiązanie dla każdego miłośnika druku 3D. Urządzenie to umożliwia wygodne i szybkie przygotowanie dowolnego filamentu do drukowania poprzez precyzyjną kontrolę temperatury oraz skuteczne wysuszenie materiału.

FilaDryer S1 Plus został zaprojektowany tak, aby obsługiwać każdy rodzaj filamentu, od standardowego PLA po wyjątkowo higroskopijne materiały, takie jak BVOH i Nylon. Dzięki temu możesz osiągnąć optymalną wydajność i jakość wydruku przy minimalnym ryzyku pęknięcia lub zniekształcenia materiału.

W zestawie znajdujesz się suszarka do filamentu oraz zasilacz. Dzięki niewielkim rozmiarom i łatwemu w obsłudze panelowi kontrolnemu urządzenie to sprawdzi się zarówno w domowych warsztatach, jak i większych pracowniach. Zainwestuj w SUNLU FilaDryer i ciesz się jeszcze lepszymi efektami swoich wydruków 3D!

- System suszenia Sunlu FilaDryer S1 Plus to urządzenie, które umożliwia wygodne i szybkie przygotowanie dowolnego filamentu do drukowania
- Wysusza filament dla optymalnej wydajności
- FilaDryer S1 Plus został zaprojektowany do obsługi każdego rodzaju materiałów, od PLA po wyjątkowo higroskopijne materiały, takie jak BVOH i Nylon.
- Precyzyjna kontrola temperatury
- Zasilanie w zestawie

- **zawartk komponenty:** 1 x suszarka do filamentu
- **waga opakowania przedmiotu:** 1.23 kilograma
- **producent:** Sunlu
- **marka:** SUNLU
- **dostawca zadeklarował rozporządzenie dtg hz:** not_applicable
- **ogólne słowo kluczowe:** suszarka filamentowa filadryer s1 plus sunlu
- **nazwa przedmiotu:** SUNLU FilaDryer S1 Plus
- **Liczba przedmiotów:** 1
- **numer części:** Not applicable-6714359

Parametry

[SUNLU FilaDryer S1 Plus: Innowacyjna Suszarka do Filamentu 3D](#)
Poznaj SUNLU FilaDryer S1 Plus, urządzenie do druku 3D, które zapewnia wygodne i szybkie przygotowanie filamentu. Oferuje precyzyjną kontrolę temperatury i skuteczne suszenie materiałów higroskopijnych, takich jak PLA, BVOH i Nylon, gwarantując optymalną jakość wydruku.
lang:pl score:33 filesize: 273.01 K page_count: 2 document date: 2023-05-17

[SUNLU FilaDryer S1 Plus User Guide - 3D Printing Filament Dryer](#)
Comprehensive user guide for the SUNLU FilaDryer S1 Plus, detailing setup, operation, temperature and time settings for various filament types, and warranty information. Optimize your 3D printing experience.
lang:de score:27 filesize: 2.61 M page_count: 1 document date: 2025-06-12

[SUNLU 3D Printing Filaments, Resins, Pens, and Accessories Catalog](#)
Explore the comprehensive SUNLU product catalog featuring high-quality 3D printing filaments, photopolymer resins, 3D printing pens, filament dryers, UV curing enclosures, and essential 3D printer accessories. Detailed specifications, mechanical properties, and printing parameters are provided for each product.
lang:en score:21 filesize: 6.07 M page_count: 41 document date: 2023-08-04

[pdf] User Manual Datasheet
Datenblatt RBS16888 roboter bausatz de datasheet |||
Datenblatt - SunLu **S1 Plus** Filament Trockner 48W SunLu **S1 Plus** Filament Trockner Der Sunlu **S1 Plus** Filament-Trockner wurde speziell entwickelt um 3D-Drucker Filament von Feuchtigkeit zu befreien. Das Filament kann auch whrend dem Drucken trocken gehalten werden, um unschne Druckfehler zu vermeiden....
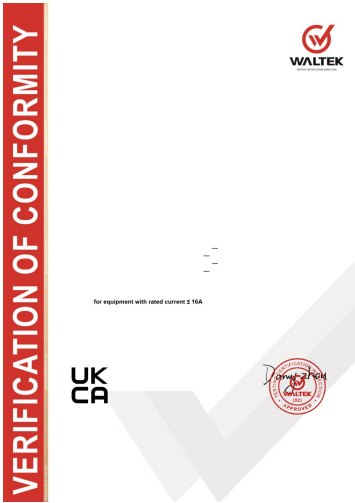lang:de score:15 filesize: 127.05 K page_count: 5 document date: 2025-01-18

[SUNLU 3D Printing Filaments, Resins, and Accessories Catalog](#)

Explore the comprehensive SUNLU product catalog featuring a wide range of 3D printing filaments, photopolymer resins, auxiliary electronics, 3D printing pens, and accessories. Detailed specifications, product characteristics, and printing parameters are provided for each item.

lang:en score:14 filesize: 6.07 M page_count: 41 document date: 2023-08-04

[pdf] Specifications

DOC Charles Test specification Reference No WTF22F05108663E Applicant Zhuhai Sunlu Industrial Co Ltd Address 38 Yongtian Road Trade Logistics Centre Phase S1 PLUS UKCA 3dsunlu DownLoad 111020 html urlStatus 1 a |||

...

lang:en score:9 filesize: 335.42 K page_count: 1 document date: 2022-06-08