SUNLU™

FilaDryer S2
3D PRINTING-MATE

Drying while printing to improve your 3D model.

EN / DE / FR / IT / ES / JP

| CE | FC | RoHS |

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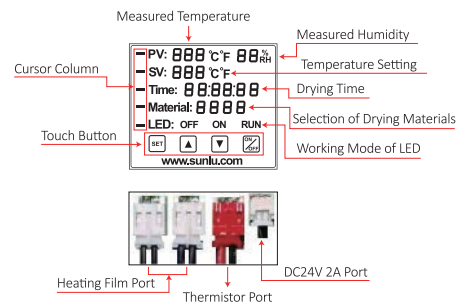
MADE IN CHINA

Note: Read this document before using the filament dryer

• Do not place the product where children can reach.
• Pay attention to electrical safety during operation. Do not use this product near water, such as in the bathroom, bathtub, wash basin and other places where water is easily accessible.
• Only use the original power adapter or a fully certified 24V/2A power adapter.
• Switch off the power supply when not using this product to avoid sudden fire.
• Place the two rollers in the box before operating the dryer.
• Confirm filament tightly wound to the roll before using this product to prevent it from falling onto the heat sink, resulting in high temperature deformation of the filament.
• When drying filament, do not place the products on temperature sensitive objects.
• Do not touch the heaters in the oven when drying filament to avoid burns.
• The upper lid of the drying oven should be covered when drying consumables to avoid heat loss.
• In order to ensure the drying effect, do not open the drying box at will during operation.
• If there is a fault with the product , disconnect the power adapter from the filament dryer and the electrical socket then contact the after-sales support team.

Product specifications:

Product size	265 (L) X 274 (W) X 118 (H) mm
Maximum capacity	φ210 * 85 (H) mm
Net weight	1190g (including power adapter)
Working environment	a) Environment temperature: 20 ℃ ~ 35 ℃ b) Relative humidity: ≤ 90%
Temperature setting range	35 ℃ ~ 70 ℃
Power adapter specifications	a) Input specifications: AC 100V ~ 240V, 50 / 60Hz b) Output specifications: DC: 24V ± 1.2V, 2A
Standby power	0.05W
Maximum working current	1.9A
Maximum working power	48W
LCD display screen	4.6-inch LCD display
Suitable for filament diameters	1.75mm/2.85mm

Product function diagram:

Display control panel

LED light circle

DC power socket (24V 2A)

Schematic Diagram of the Content Displayed on the LCD:

Measured Temperature
Measured Humidity
Cursor Column
Temperature Setting
Drying Time
Selection of Drying Materials
Touch Button
Working Mode of LED
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Heating Film Port
DC24V 2A Port
Thermistor Port

Operation Guide:

1. Power On
Plug the power adapter attached to this product into the power supply, and then connect the power cord to the DC power socket of the dryer. The dryer is in standby without heating state by default after the power is connected, and the screen displays" ".

2. Filament Loading
Place the filament in the dryer, pull the thread out of the outlet and close the lid tightly. (Note: Please make sure that the consumables are in a tightly wound state).

3. Turn On the Dryer
Double-click the " ",the dryer will work according to the default settings (Temperature: 50°C, drying time: 6 hours, material: PLA, LED: OFF).

4. Personalized Settings
A.This product can change the temperature unit.
Click the " SET ", when the cursor on the left side of the PV flashes, click " ▲ " or" ▼ " , you can switch between Fahrenheit and Temperature Celsius.
B.This product can increase or decrease the temperature according to personal settings (temperature setting range: 35 ℃~70 ℃).
Click the " SET ", when the cursor on the left side of the SV flashes, click " ▲ " or " ▼ ", , the temperature can be increased or decreased. After 3 seconds of stopping the operation, the dryer will automatically save the set temperature.
In addition, you can click" ▲ "or " ▼ "directly without the cursor flashing.

C.This product can be set to dry for a fixed time (the default continuous drying time is 6 hours when the dryer is turned on).
Click the "⬚" , when the cursor on the left side of the Time flashes, click "▲" or "▼" can increase/decrease the drying time. When the set drying time is completed, the dryer stops working and enters the standby state. Turn off the countdown function: Adjust "Time" to "99：00" press "▲" and the screen shows "CLOSE"; Or adjust "Time" to "00：00",press "▼" and it shows "CLOSE"

D.This product has preset the best drying temperature and time for a variety of commonly used filament.
Click the "⬚" , when the cursor on the left side of the material, click "▲" or "▼" can switch between different filament. When the filament are changed, the drying temperature corresponding to the consumables will be changed as well.

Filament	PLA	PETG	TPU	ABS	PA	PC
Code	PLA	PETG	TPU	ABS	PA	PC

E.Setting of LED light ring working mode
Click the "⬚" , when the cursor on the left side of the LED flashes, click "▲" or "▼" can change the working mode of LED light ring.
• When in the "OFF" state, the LED light ring does not light up.
• When in the "ON" state, the LED light ring presents an upward accumulation lighting effect. When there is a big difference between the measured temperature and the set temperature, the LED light ring's accumulation speed is fast; when the temperature difference gradually decreases, the accumulation speed gradually slows down; when the measured temperature is greater than or equal to the set temperature, the LED ring is always on.
• When in "RUN" mode, the LED light ring will always be on.

5. Turn Off the Dryer
Double-click "⬚" the to enter the shutdown state. After restarting, the drying temperature, filament selection, and LED mode will retain the settings before the shutdown; the drying time will be restored to the default 6 hours.

6. Tips for the best results
• For best results dry your filament before and during printing. For long print operations drying during the printing process will produce more consistent print results.
• When the ambient temperature is low the dryer will take longer to reach the set temperature, extend the drying time by 1 hour.
• Drying time and temperature for common material refer to the following table:

Material	PLA/PLA+	WOOD	PETG	PVB	ABS/ABS+	HIPS	PVA	ASA	TPU	PMMA	PA/PC
Baking Temp	45-50℃				50-55℃						60-70℃
Time	3-6h										

• It's necessary to wind the filament tightly instead of a loose state, as shown in the picture below:

7. Troubleshooting
• If you encounter the following issues during use, please try the troubleshooting method in the table below. If the fault still cannot be eliminated, please contact the place of purchase for troubleshooting.

Other Filament	Cause of issue	Troubleshooting method
LCD screen does not display normally	Power adapter failure	Replace the power adapter
The temperature does not rise	Power adapter power is below specification	Replace the power adapter (24V 2A)
	The lid of the dryer enclosure is not closed	Close the top cover of the filament dryer
Fault code ER1	Poor temperature probe contact	Reconnect the heating element temperature probe(right 2)
Fault code ER2	Poor contact of cabinet temperature probe	Reconnect the enclosure temperature probe (right 1)

• After-sales services:
1.Limited warranty for one year where the product has failed under normal operation as shown in this manual.
2.Warranty service will not be provided if the machine is damaged within the warranty period due to the use of a different specification power adapter or if the machine is not operated correctly according to the instruction manual.

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