



Filament Dryer Box S2

User Instruction

I Maintenance(Please read this user instruction before using the product):

1. Pay attention to electric safety when operating. Do not use the product near places that remain water like shower room, bathtub or hand basin, etc.
2. The product has high power, so please utilize the original power adapter or certificated 24V 2A one.
3. Do not place the product where children can reach.
4. Please cut off the power while not in use, in case of an unexpected fire.
5. Please ensure the filaments are twined tight before drying, in case of filaments scatter over the heater band and cause overheating deformation.
6. Please place 2 rollers in the box properly before drying.
7. When drying, please do not put the on objects vulnerable to heat.
8. When drying, please do not touch the heater band in case of getting burnt.
9. When drying, please cover the upper lid to avoid heat loss.
10. When drying, please do not open the box frequently in case air enters the interior, affecting the drying effect.
11. When the product is faulty and cannot be used, please plug it out from the socket and contact the after-sales service technicians.

II Product Information :

1.Package

- 1) Product size: 265(L) * 274(W) * 118(H) mm;
- 2) Package size:275*122*285mm;
- 3) Package weight: 1.44kg per box;
- 4) Outer package size: 635*290*595mm;
- 5) Packing quantity: 10 pieces per carton;
- 6) Net weight: 14.4kg per carton;
- 7) Gross weight: 15.8kg per carton;
- 8) What's in the box: drying box, power adapter, user instruction, several teflon tubes.

2.Maximum capacity: ϕ 210*85 (H) mm

3.Product net weight: 1190g (power adapter included)

4.Working conditions

A:Ideal temperature for use: 20℃~35℃

B:Relative humidity: \leq 90%

5.Temperature setting range: 35℃~70℃

6.Power adapter specification:

A:Input: AC 100V~240V, 50/60Hz;

B:Output: DC:24V \pm 1.2V, 2A.

7. Standby power: 0.05W.

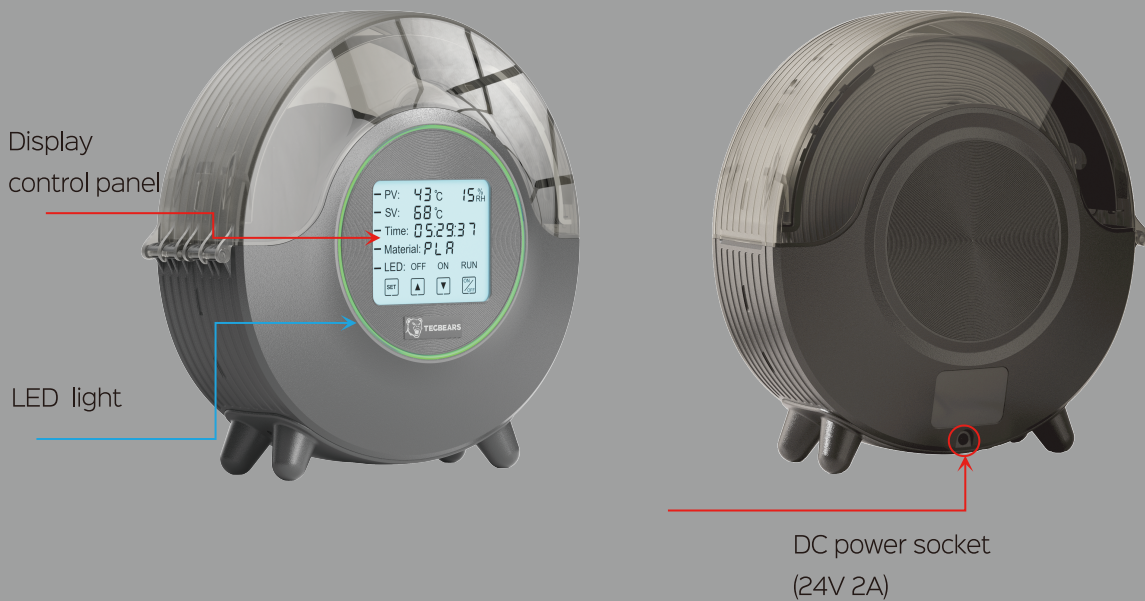
8. Maximum operating current: 1.9A

9.Maximum working power: 48W.

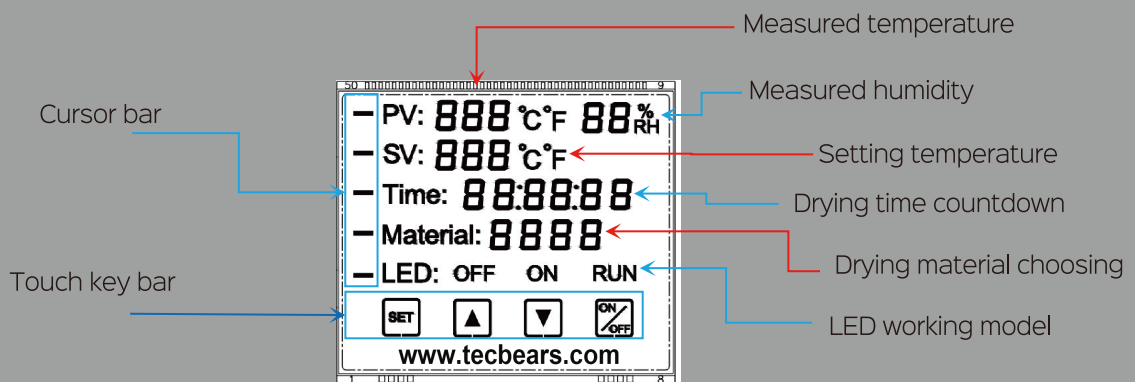
10.LCD screen size: 6.4 inch LCD

11.Compatible filament: 1.75mm/2.85mm/ 3.00mm

III Appearance diagram




IV Diagram of the screen display



V Operation Instruction:


1. Connect the power

Plug the power adapter that comes with the product into the power supply, then connect the power line to the drying box DC socket. Before the dryer is connected to the power, and if no key operation is taken, the dryer is on standby without heating, and the screen displays “  ”.

2. Filament loading

Put the filaments into the drying box and pull the wire out of the outlet. (NOTE: Please make sure the filament is twined tight.)

3. Start-up






Double click  , drying box will work complied with the default setting (temp:50°C, drying time: 6 hours, material: PLA, LED: OFF)

4. Personal setting

A. The product can change the temperature unit.


Click , when the left cursor of “PV” flashing, click  or , it can be changed to Fahrenheit/Celsius.

B. The product can turn up / down the temperature (Temp setting range: 35°C~70°C).

Click , when the left cursor of “SV” flashes, click  or , to increase or decrease the setting temperature, when paused for three seconds, the drying box will save the temp setting automatically. Or when the cursor stops flashing, click  or .

C. This product can be dried at regular intervals (The default continuous drying time of the dryer is 6 hours).

click , when the left cursor of “Time” flashing, click  or , to increase or decrease periodic time. when time is over, the drying box will stop working and switch to the standby model.

(NOTE: When the time is set to 0 hours, the drying box will switch to the standby model instantly after confirmation; when double click  again, the drying box will change to the default 6-hour working state.)

D. The product has predetermined multiple sets of ideal temperature and hours for diverse materials already.

Click , when the left cursor of “Material” flashing, click  or , to change different materials, and the temperature will vary correspondingly.

Consumables	PLA	PETG	TPU	ABS	PA	PC	Other consumables
Code Name	PLA	PETG	TPU	ABS	PA	PC	----

E. LED light ring working model setting.


Click , when the left cursor of “LED” flashing, click  or , can switch LED light ring’s working model.

In the “OFF” state, the LED light ring doesn’t work.

In the “ON” state, the LED light ring shows a climbing-up lighting effect. the larger the gap between actual temperature and set temperature is, the faster climbing-up does; when the actual temperature is higher or equal to the set temperature, the LED light ring is always on.

In the “RUN” model, the LED light ring keeps circling-lighting clockwise.

5. Power off.

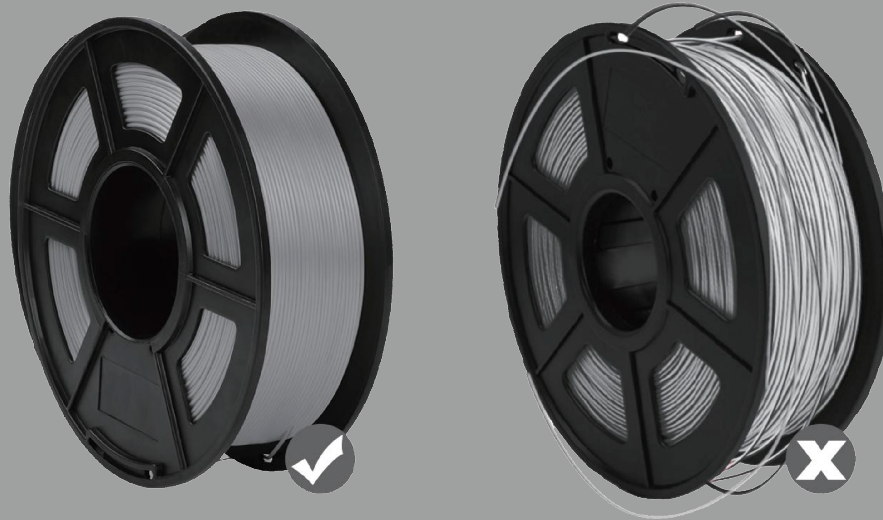
Double click , to enter the off state; when starting again, drying temperature, material, the LED model remain at the previous setting. Drying temperature recover to default 6 hours.

VI Usage tips

1. It is recommended to dry before printing. After drying is completed, printing while drying is more effective.
2. When the ambient temperature is too low and the drying box does not warm up to the set point, it is recommended to extend the drying time for more than 1 hour.
3. Common used filaments drying time, temperature reference table.

Consumable Materials	PLA/PLA+	Wood	PETG	PVB	ABS/ABS+	HIPS	PVA	ASA	TPU	PMMA	PA/PC
Drying temperature (°C)	45-50			50-55						60-70	
Drying time (h)	3-6										

4. Before heating, please wind the supplies tightly, not loosely. Please refer to the picture below.



VII Troubleshooting

If you encounter the following phenomena when using, please do simple handling according to the table. If the trouble still cannot be settled, please contact the purchasing office for troubleshooting.

Phenomena	Possible reasons	Troubleshooting methods
Abnormal display of the LCD	Power adapter failure	Replace power adapter
Unable to heat up	The power of the power adapter is insufficient	Replace the Power Adapter (24V 2A)
	The top cover of the drying box is not properly covered	Put the top lid on the drying box
Fault code ER1	Poor contact of temperature probe	Reinsert the temperature probe
Fault code ER1	The wiring terminals of the heating plate are in bad contact	Reconnect the cable to insert the heater

VIII After-sales service

Warranty: in the case of non-human damage, the warranty will be one year. It will not be covered if the damage is caused by the use of different specifications of the power adapter or failure to operate correctly according to the instructions.

If you have any questions during the use of process, please contact us at any time via support@tecbears.com