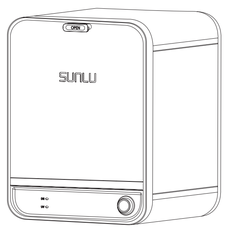
SUNLU

UV Resin Curing Enclosure User manual

（RC-2）

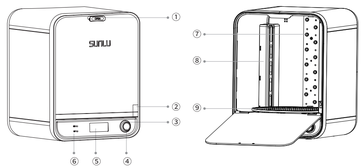


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User manual

PARTS DESCRIPTION



①Door handle	⑥Mode indicator
②Door detection switch	⑦UV light
③LED aperture	⑧Air duct
④Rotary Switches	⑨Turntable
⑤Digital display	

PACKING LIST

1. RC-2 Resin Curing Enclosure×1
2. Power Adapter×1
3. User manual×1

PRODUCT PARAMETERS

Product parameters	
Product name	UV Resin Curing Enclosure
Product number	RC-2
Adapter specifications	Input: AC 100V~240V 50Hz/60Hz Output: DC 12V ⎓ 0.2V 3.5A
Product input	DC 12V 3.5A 42W
Product Size	245*235*305mm
Curable model MAX size	200*200*250mm
UV curing time setting range	10s~15mins
DR drying time setting range	1-99mins
Turntable diameter	200mm±2mm
Turntable speed	4-8r/min
Maximum load-bearing capacity of turntable	2kg (do not overload operation)
Optimum ambient temperature/humidity	20℃~35℃, relative humidity ≤90%
Product Weight	2.4kg

UV CURING PRINCIPLE





Photosensitive resin will undergo a curing reaction when exposed to UV light in the 405nm band. After the 3D resin model is printed and cleaned, there is still resin residue (uncured) on the surface.

Put the model into the resin curing box, and the turntable drives the model to rotate 360°. Finally, UV light is irradiated on the surface of the model at various locations. After about 5 minutes, the resin on the model surface is completely cured. The surface of the model is hard, shiny and non-sticky.

PRECAUTIONS



1. Avoid using any cleaning agents other than alcohol, isopropyl alcohol, or SUNLU resin cleaner to clean the model. If a resin cleaner is used to clean the model, make sure to thoroughly rinse off any residual liquid with water before placing it on the turntable. This will help prevent corrosion of the curing box turntable.



2. After using the product, please disconnect the power supply in time.



3. Do not unplug or plug in the power supply with wet hands to avoid electric shock.



4. Please use the adapter that comes with the product and do not replace the power supply without authorization.



5. If the product is abnormal, please contact our after-sales team. Please do not repair by yourself.



6. Do not splash liquid on the circuit part of the product (UV light panel, switch, fan, etc.) to avoid short circuit



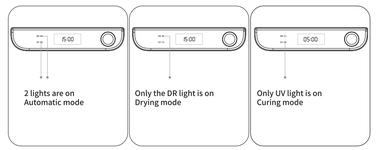
7. Do not overload operation (model weight <2kg)



8. Clean the surface and interior of the product regularly (the tray can be removed for cleaning)

MODE DESCRIPTION

Press and hold the knob switch for 2 seconds to switch to the corresponding mode.



2 lights are on
Automatic mode

Only the DR light is on
Drying mode

Only UV light is on
Curing mode

OPERATION GUIDE



1. Power on

Insert the DC plug of the adapter into the power hole on the back of the product, insert the adapter into the power socket, and then press the knob switch



Insert the DC plug of the adapter into the power socket on the back of the product, plug the adapter into the power outlet, and then press the power switch (the LED indicator will change from blinking to steady light, the

Ⓐ Press the knob to turn on



2. Automatic mode

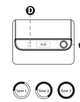
This mode is a one-click working mode. The curing box will automatically perform the model drying and curing process, which is convenient and fast.



Ⓑ (1) In automatic mode, the DR\UV indicator light is always on (as shown below), and the time displays 15:00



Ⓒ (2) Place the cleaned model in the center of the turntable (as shown below Ⓑ), then close the door, and then press the knob switch to start.
Note: The liquid on the surface of the model needs to be gently shaken off to avoid excessive liquid flowing onto the turntable.
Ⓒ Press the knob to turn on



Ⓓ Ⓔ (3) After starting the work, the model air drying function will be executed. At this time, the DR indicator light flashes, the turntable rotates, and the sound of the internal fan running can be heard. Rotate the knob during the process to adjust the wind speed (1, 2, 3 gears)
Ⓓ Flashing
Ⓔ Rotate the knob to adjust the wind speed

Note:

If the model uses alcohol or isopropyl alcohol as the cleaning fluid, it can be effectively air-dried according to the system default 15:00; if it is water-washed resin (water is used as the cleaning fluid) or SUNLU resin detergent is used as the cleaning fluid, you need to refer to the step 3 model drying function for time adjustment
(recommended to be more than 30mins)



Ⓕ Ⓖ (4) While the DR indicator light is flashing, the time countdown on the digital display changes. When the countdown reaches 00:00, the model curing function will be executed.
Ⓕ Flashing
Ⓖ At 00:00



Ⓗ Ⓘ (5) During the model curing process, the UV indicator light flashes and the time displays 05:00; the DR curing light will light up, the fan speed will automatically decrease, and the time will countdown accordingly.
Ⓗ Flashing
Ⓘ When the countdown reaches 00:00, the buzzer will beep as a reminder.



Ⓙ (6) When the time countdown reaches 00:00, the buzzer will beep as a reminder. Complete the entire automatic drying and curing process.
Ⓙ At 00:00

3. Drying mode

This mode is a separate model air-drying function. The user can adjust the model air-drying time; the model can also be surface-dried separately in this mode.



Ⓚ Ⓛ Ⓜ (1) Press and hold the rotary switch for 2 seconds, only the DR indicator light will light up (air drying mode)
Ⓚ Indicator light on
Ⓛ Default 15mins
Ⓜ Long press the knob switch to change mode



Ⓝ (2) Adjust the knob switch to set the air drying time. When isopropyl alcohol or alcohol is used as the cleaning agent, it is recommended to air dry for 15mins; when water or SUNLU resin detergent is used as the cleaning agent, it is recommended that the air drying time is 30mins or more (adjust according to the model).
Ⓝ Turn the knob to set the drying time Adjustable time range 1-99mins



Ⓞ (3)Click the knob switch to start air drying. During the air-drying process, you can adjust the wind speed (1, 2, 3). It is recommended to air-dry with the door open, so that the liquid on the surface dries faster. **If the model is small or light, it is recommended that the wind speed is 1 to prevent the model from being blown down.**
Ⓞ Click to start; during the drying process, rotate the knob to adjust the wind speed

(4)During the air-drying process, you can open the door at any time to check the drying condition of the moisture on the surface of the model. If there is still moisture that has not dried, you can pause and readjust the air-drying time (if there is too much liquid on the turntable, you can wipe it dry with a cloth).

(5)When the drying time countdown ends, the buzzer will sound "Beep! Beep!" to remind you.

4. Curing mode

This mode is a separate model curing function. The user can adjust the curing time; the model can also be cured separately in this mode.



Ⓟ Ⓠ Ⓡ (1)Before curing the 3D resin model, please confirm that the moisture on the surface of the model has dried (to avoid poor curing effect of the model or surface cracking)

(2) Press and hold the knob switch for 2 seconds, only the UV indicator light will light up (enter curing mode)
Ⓟ indicator light on
Ⓠ Default 5mins
Ⓡ Long press the knob switch to change modes



Ⓢ (3)Rotate the knob to adjust the curing time (5mins recommended), click the knob to start curing
Ⓢ Please adjust the curing time appropriately according to the curing conditions.

(4)When curing is completed, the buzzer will sound "Beep! Beep!" to remind taking out the model.

Note:

If the door is opened during the curing process, the UV lamp will automatically turn off (the turntable and fan operate normally).

5. Turntable cleaning

In order to ensure the curing effect at the bottom of the model, it is recommended to clean the turntable regularly (to ensure good light transmission)



(1)Lift the turntable horizontally upwards as shown in the photo, and remove the turntable.



(2) Use a cloth dipped in alcohol or isopropyl alcohol to wipe the turntable to remove stains or foreign matter on the surface.



6. Standby

When air drying or curing is completed, if there is no operation within 20 minutes, the product will enter standby mode, the display will turn off, and the green LED light will flash.

COMMON TROUBLESHOOTING

1. Unable to boot

(1) Check whether the power supply is connected correctly and whether the adapter is connected to the AC power supply.

(2)Check whether the adapter has DC 12V output. If there is no voltage output, the adapter is broken.

(3) Check whether the green indicator light is flashing. If the rotary switch does not turn on when it is flashing, the rotary switch is broken.

2. Unable to switch DR/UV mode

(1) Press and hold the rotary button for 2 seconds and observe whether the indicator light changes.

(2) Click the rotary button and observe the status of the fan, turntable, and UV light. If there is no response, the rotary switch is broken.

3. Unable to adjust time

(1) The time cannot be adjusted during work, so pause firstly.

(2) If the pause state time cannot be adjusted, the knob switch is broken.

4. DR does not start

(1) Observe whether the time counts down normally. If the time does not count down, the knob switch is broken.

(2) If the time counts down normally but there is no sound from the fan, the fan is broken.

5. UV does not start

(1) Check whether the door is closed tightly. If the door is closed tightly and the UV does not start, then the door detection.

(2) Observe whether the turntable and fan are normal. If they are normal but the UV light does not light up, the internal circuit is faulty.

6. The turntable does not rotate

(1) Check whether the turntable is installed properly.

(2) Check whether there is any foreign object blocking the center of the turntable. If the turntable still cannot be started, the motor is faulty.

Certificate of Conformity



After-Sales Service

1. The product comes with a one-year warranty under normal operating conditions as shown in this manual.

2. The warranty does not cover damages caused by using power cables of different specifications or incorrect operation as per the instructions in the manual during the warranty period.

CONTACT US

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