RODIN®

CHROMA FLASH™

Consistent Flash Post-Curing Designed for Rodin Materials

Instruction For Use

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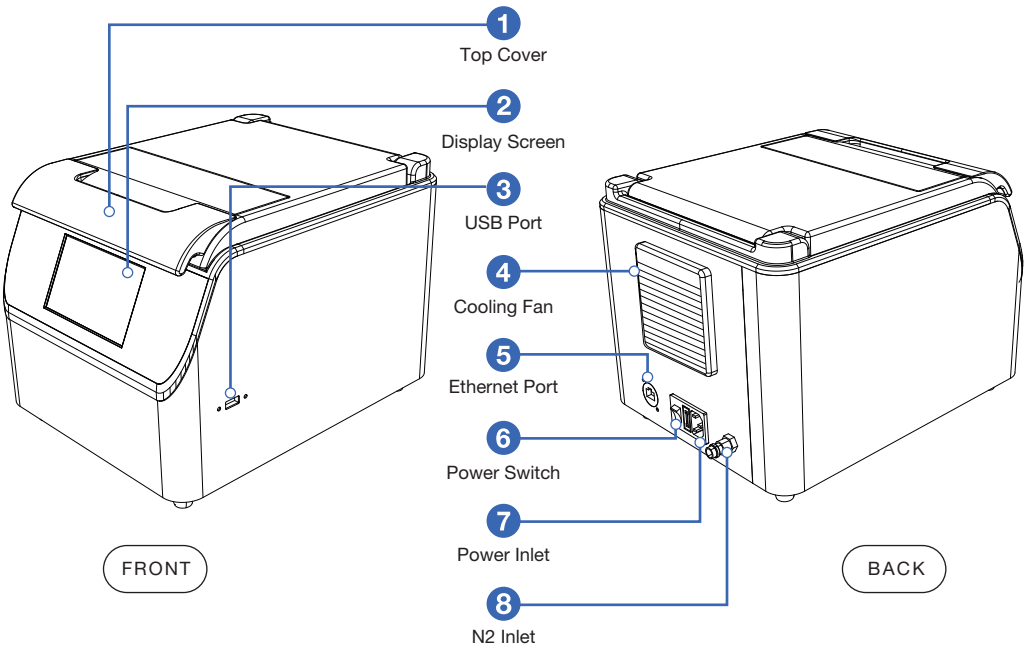
General Information

The device Rodin Chroma Flash is a flash-light polymerisation device for the curing of light-curable resins. It has two flash bulbs at the bottom, which are operated at a frequency of 10 flashes per second in work mode. During flashing, the flash bulbs generate very intensive light radiation ranging from 230 to 950 nm. As a result of this concentrated radiation, a better and more thorough curing of the materials is achieved, with very good physical properties and reduced residual monomer content compared to other lamps.

Initial Operation of Device Section

Connect to power source, turn on Rodin Chroma Flash, and connect to the internet.

After long exposure to low temperatures (e.g. transport in winter), allow the device to acclimatise for approximately 2 hours in the operating room before switching it on. Otherwise, there is a risk of condensation-induced short circuit.



Curing Tray

Do not use alcohol or alcohol-based cleaning products to clean the curing trays, as this will damage the trays.

The curing trays have a limited lifetime due to the high-intensity irradiation they are exposed to. The trays should be replaced after approximately 20–30 hours of usage time. In addition, the trays should be replaced if they exhibit strong yellowing or have been severely scratched or dirtied. Cracked, dirtied, or yellowed trays reduce the effectiveness of light irradiation.

In case of reduced curing efficacy, the following steps should be followed:

a. Replace curing tray insert

b. Clean dirtied reflectors by blowing them out at the flash-bulb module and device lid

c. Replace light module

Important Notes

- Do not look directly into the radiation of the flash bulbs due to the risk of eye damage.
- Longer irradiation may substantially heat up the polymerisation space. Therefore, it is advisable to wait a few seconds before opening the lid (the fan continues working).
- For operation of the device, the light module must always be completely inserted. The lid must always be completely shut.
- Never operate the device without the light module.
- The dust filter on the front of the device behind the display should always be kept clean (danger of over-heating and contamination.
- Depending on dust accumulation, clean or replace the filter regularly.

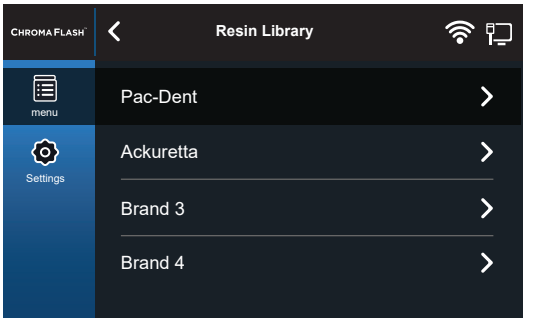
Operating Mode

Use the touchscreen to select curing parameters and start the curing process.

There are two ways to set the curing parameters

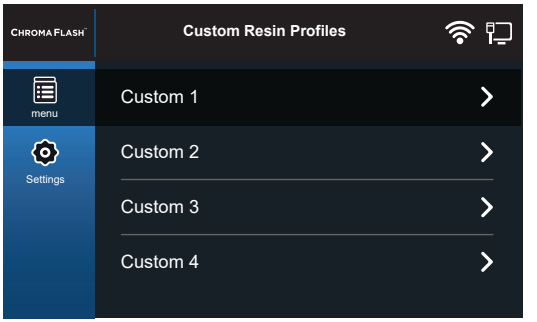
| Resin Library

Select from a preloaded and regularly updated library of Rodin resins profiles. Each profile is optimized for specific materials and applications.



| Custom Curing

Create and use your own curing profiles. To adjust the flash count, tap the value on the screen to open the numeric keypad, then enter the desired number.



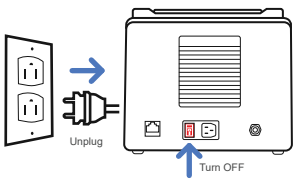
Before starting the curing cycle, select the nitrogen mode

| Use The Toggle to Turn **Nitrogen** ON **or** OFF

- **ON:** Enables nitrogen during curing for optimized results
- **OFF:** Curing without nitrogen

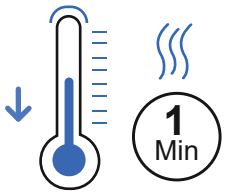
Replacing the Light Module

① POWER OFF



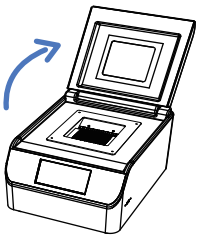
Turn off the device and disconnect from outlet.

② COOL DOWN



Allow bulb to cool down.
Use stand by mode (~1min).

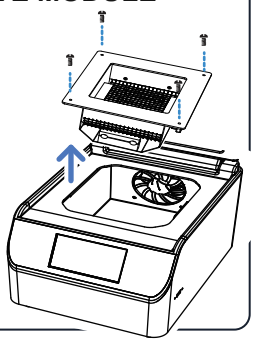
③ OPEN LID



Lift the top lid to access the chamber.

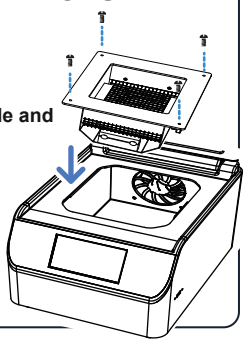
④ REMOVE MODULE

Loosen the four screws and pull the light module upward

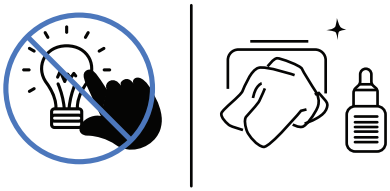


⑤ INSTALL NEW MODULE

Insert the new module and Tighten the Screws.

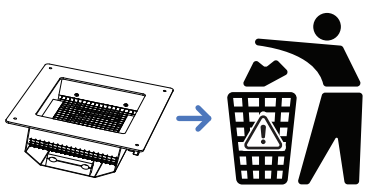


⑥ NO TOUCH / CLEAN



Do not touch the bulbs with your fingers.
If touched, clean with a lint-free cloth and isopropyl alcohol.

⑦ DISPOSE SAFELY



Used light modules are hazardous waste.
Dispose in accordance with local regulations.

Replace the entire module only.
Do not change individual bulbs.

Always ensure the device is fully powered off.

Follow proper waste handling compliance.

Maintenance

| Dust filter

The filter fleece directly behind the display (accessible via the open lid) should be cleaned by blowing it out with compressed air and/or replaced regularly, depending on the amount of dust.

| Cleaning Section

- Do not allow any liquid to enter the main switch or the inner device.
- The light module may only be blown out with compressed air using slight overpressure.
- Never clean the flash bulbs with cleaning fluids or tissues. Clean the reflector surfaces only with a lint-free cloth.

| Maintenance

The filter fleece located directly behind the display (accessible via the open lid) should be cleaned by blowing it out with compressed air and/or replaced regularly, depending on dust accumulation.

Transport, Storing & Disposal

| Transport

For transport and storage of up to 6 months, the following conditions apply:
Temperature: 0°C–70°C
Relative humidity: 10%–80%

Afterwards, operating condition values apply:
Temperature: +10°C–30°C
Relative humidity: 20%–80%

| Storage

- Storage is only permissible in closed rooms.
- Protect the device from humidity and moisture.
- Do not expose the device to strong jolts.

| Disposal of the device

Once the plastic parts and/or air grille are dismantled, the floor and lid plates, as well as the anodized inner parts, flaps, and tray, should be disposed of as metal waste. The remaining components should be disposed of as electronic waste.

| Environment relevant meterials section

Component	Material used
Metal Chassis Parts	Aluminium
Housing Parts	ASA
Transformer	Copper, iron, polyamide, polyurethane
Capacitors	Aluminium, polyurethane, polyropylene, resin with castor oil
Conductor Board	Epoxy resin

- Disposal must be carried out in accordance with applicable national regulations.
- Relevant disposal organizations must be consulted.
- All devices or components may be returned to the manufacturer for disposal.
- Shipping and handling are covered by the sender.

Technical Data

Dimensions	256 x 330 x 224 mm
Weight	8.2 kg
Voltage	100-240vAC
Frequency	50/60 Hz
Power Consumption	ca. 300 Watts
Flash Frequency	10 Flashes per sec.
Life Duration of Flash Bulbs	Approx. 250 hours
Digital Timer	Programmable from 1 to 9999 flashes
Size of Polymerisation Chamber	ca. 120 x 120 x 50 mm
Spectral Distribution	260 - 950 nm
Protective Gas Option	1.0-1.5 bar
Nitrogen Flow Rate	Approx. 10 L/min

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