

UV CHAMBER™

Homogeneous and powerful UV LED curing system

- **Homogeneous** illuminated area
- **Suitable** for repeatable tests
- **Easy-to-use** system



OVERVIEW OF THE CHARACTERISTICS

Electronics	<i>Power supply</i>	220V AC – 50/60 Hz
	<i>Illumination mode</i>	Controlled by the user
	<i>Connector</i>	AC/DC
	<i>Power consumption</i>	Depends on the power used
Optics	<i>Wavelength</i>	365 or 385 or 395 or 405 nanometers
	<i>Irradiance</i>	1000 mW/cm ² or 250 mW/cm ²
Mechanics	<i>Width and length</i>	382 mm x 306 mm
	<i>Height</i>	605 mm
	<i>Material</i>	Device body: Aluminum alloy
Thermal	<i>Cooling system</i>	Active air cooling with fan
Environment	<i>Working temperature</i>	10°C to 35°C
	<i>Working humidity</i>	< 80% for temp < 30°C
	<i>IP code</i>	IP40

Comments/Notes:

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

Patient Information	
Name	
Age	
Gender	
Address	
City	
State	
Zip	
Phone	
Medical History	
Allergies	
Current Medications	
Past Medical History	
Family History	
Social History	
Physical Examination	
Vital Signs	
Laboratory Tests	
Imaging Studies	
Diagnosis	
Treatment Plan	
Follow-up	

SECURITY



UV risks:

The UV-CHAMBER™ includes the UCUBE™. The UCUBE™ comes under the standard DIN EN 62471:2008 which classified sources of optical radiation into risk groups subject to their potential photo biological hazard. Due to the emission of high UV irradiation the UCUBE™ belongs to Risk Group 3 (hazardous even for momentary exposure) therefore special safety measures, detailed in the datasheet of the UCUBE™, must be observed.

In order to protect you, UWAVE has designed the UV-CHAMBER™ to be fully secure. Two main characteristics are essential for the user's safety.

Firstly, UWAVE included an intelligent security system between the UCUBE™ and the door to avoid unwanted UV light exposure. This system cuts off the UV light if the door is open during insolation.



If you try to fake this system, UWAVE will not assume responsibilities for possible injuries.

Secondly, UWAVE included a window with an optical density (OD) of 6 for wavelengths between 200 and 532 nanometers. The material of this window is the ACRX-BB2 which corresponds to the standards EN207 and EN12254.



If you try to change or take off the window, UWAVE will not assume responsibilities for possible injuries.

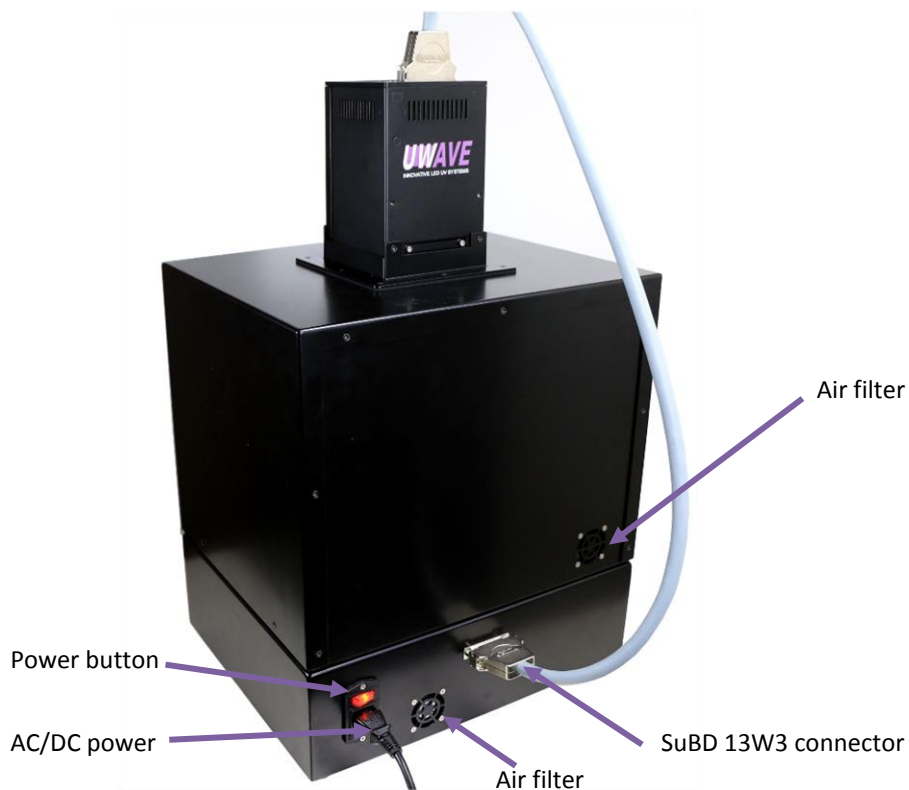
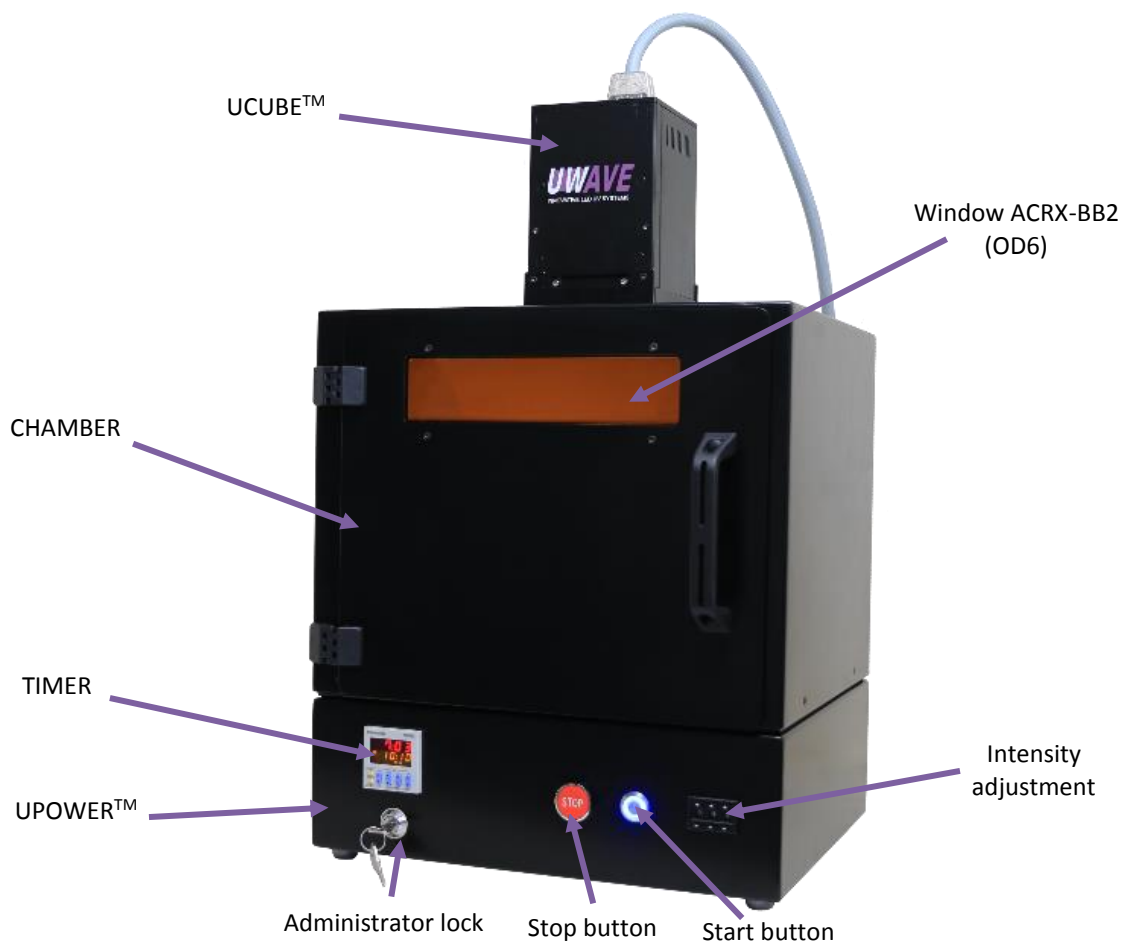
No UV expositions are possible if you use the UV-CHAMBER™ correctly.

For more information concerning UV risks or thermal risks please read the UCUBE™ datasheet.

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TECHNICAL CHARACTERISTICS



Comments/Notes:

[illegible]

Patient Information	
Name	
Age	
Sex	
Address	
City	
State	
Zip	
Phone	
History of Present Illness	
Onset of symptoms	
Duration of symptoms	
Frequency of symptoms	
Severity of symptoms	
Associated symptoms	
Previous treatments	
Response to treatment	
Family History	
Social History	
Physical Examination	
Vital Signs	
General	
Head	
Eyes	
Ears	
Nose	
Throat	
Chest	
Abdomen	
Extremities	
Skin	
Neurological	
Psychiatric	
Laboratory Tests	
Imaging Studies	
Pathology	
Microbiology	
Immunology	
Genetics	
Other	
Diagnosis	
Treatment Plan	
Follow-up	

Electrical characteristics



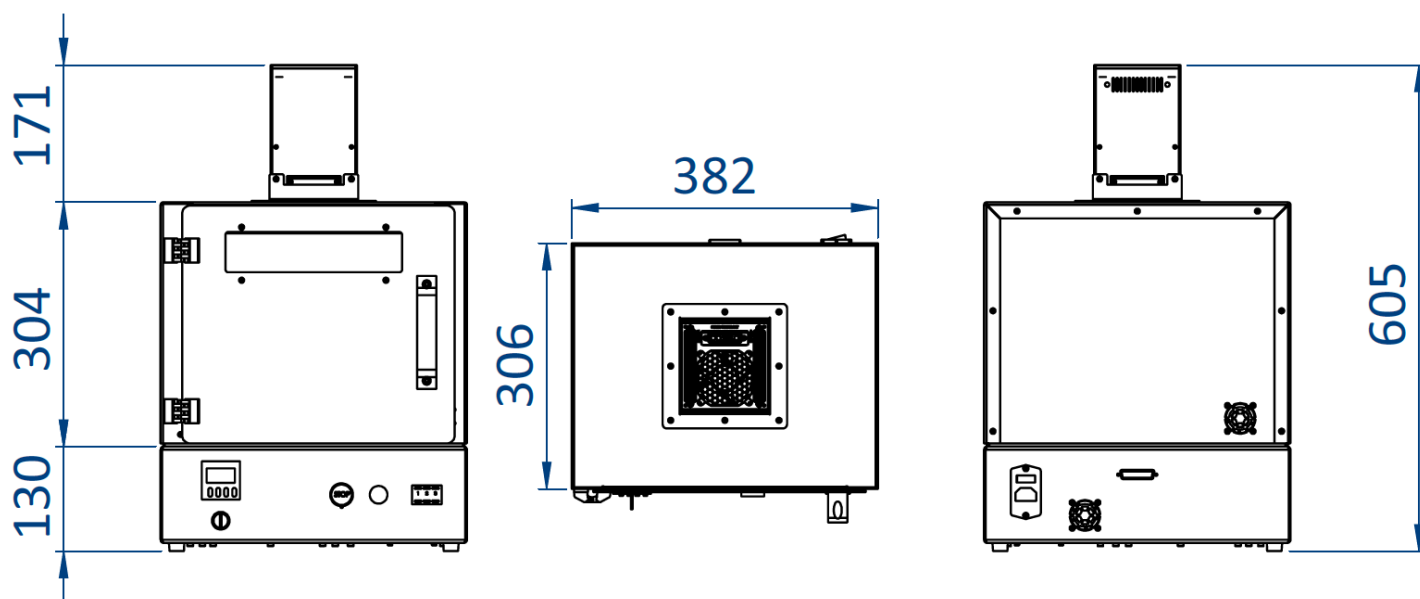
The UV-CHAMBER™ is supplied with a 220V AC voltage source.

Thanks to the intensity adjustment, the light intensity can be controlled:

- 000 to 199 – OFF
- 200 – ON (20%)
- 999 – ON (100%)

To know more about electrical characteristics, please read the UCUBE™ datasheet.

Mechanical considerations (in mm)



Weight

The weight of the UV-CHAMBER™ is **18 kg**.

Cooling system

Active air cooling system included (fans).

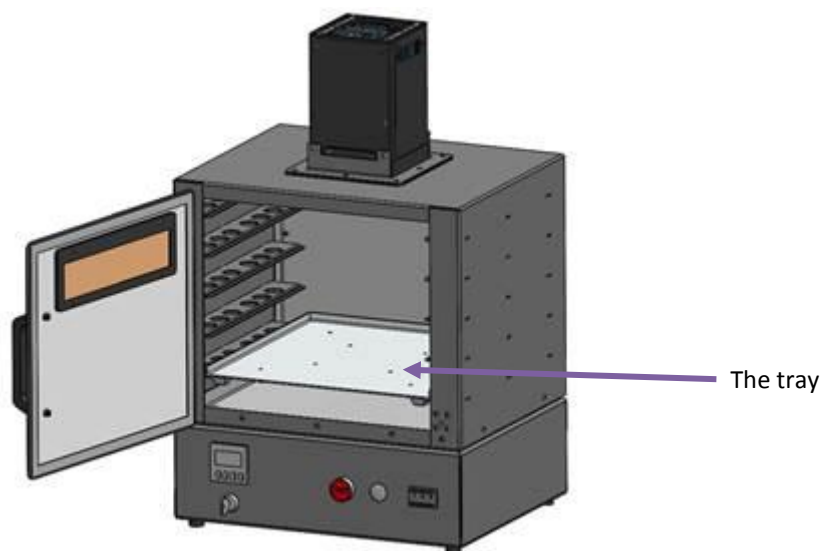
Comments/Notes:

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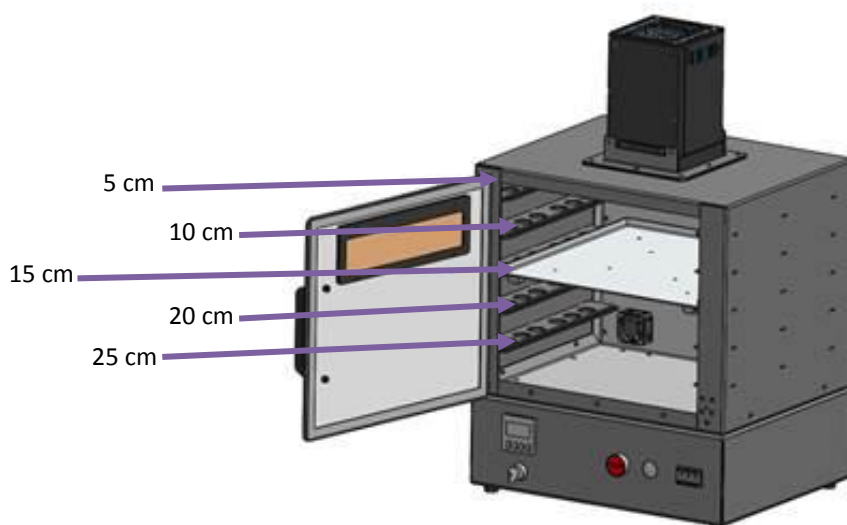
This image shows a completely blank white rectangular area. It is surrounded by a thin, solid black border that frames the entire composition. There are no markings, text, or illustrations present on the white surface.

Tray

Inside the UV-CHAMBER™, you will find a tray to place your objects or your samples that you want to expose to the UV rays emitted in the UV-CHAMBER™.



Five positions are possible for the tray. It will depend on your applications or your needs, you will be able to place the tray at 5/10/15/20/25 cm from the UV source.



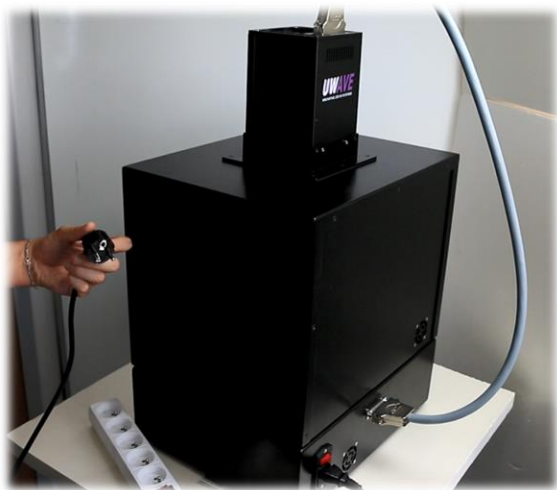
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Date	Time	Location	Observations

PLUG & PLAY

Follow the steps below to make a quick start with the UV-CHAMBER™.



① Ready



② Connect the electrical plug into the socket

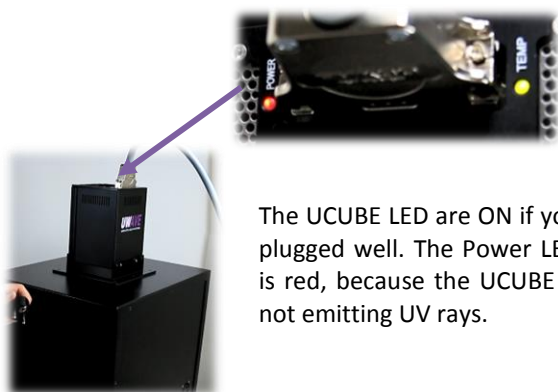


③ Push the AC/DC power button



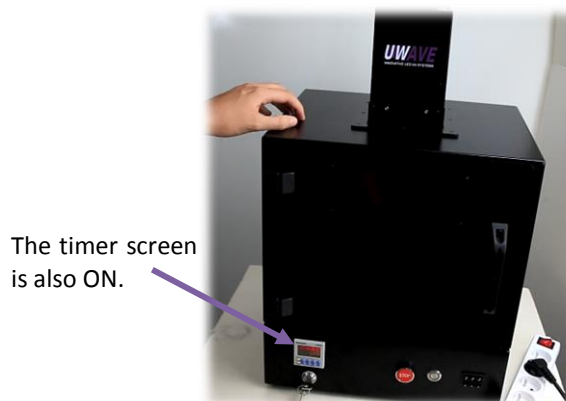
The red button is ON if you plugged well.

④ Check your cabling thanks to the red button



The UCUBE LED are ON if you plugged well. The Power LED is red, because the UCUBE is not emitting UV rays.

⑤ Verify on the UCUBE if the LED are ON



The timer screen is also ON.

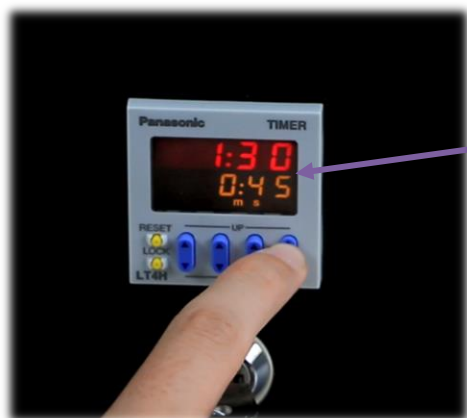
⑥ The UV-CHAMBER is now ready to be used

Comments/Notes:

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Case No. _____	
Date _____	
Patient Name _____	
Room No. _____	
Physician _____	
Nurse _____	
Attending _____	
Resident _____	
Fellow _____	
Intern _____	
Student _____	
Other _____	
1. Chief Complaint	_____
2. History of Present Illness	_____
3. Past Medical History	_____
4. Social History	_____
5. Family History	_____
6. Review of Systems	_____
7. Physical Examination	_____
8. Laboratory and Diagnostic Studies	_____
9. Assessment and Plan	_____
10. Discharge Summary	_____
11. Follow-up	_____
12. Other	_____

Set the timer and the intensity



The red timer is fixed and represents the previous timer chosen. The orange timer is the one that you can change.

① Push the buttons to choose your time



To validate the time (red timer will equal to orange timer that you defined), push the STOP button or push the RESET button.

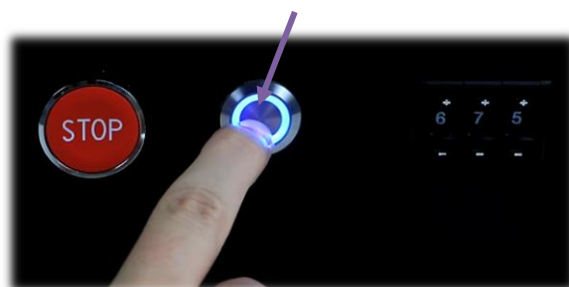
② Push the STOP button to set up the timer



You can control the light intensity thanks to these buttons. For example, 675 equals to 67,5% and 999 equals to 99,9% of light intensity.

③ Push the buttons to choose the intensity

The blue light means that UV rays are emitted inside the UV-CHAMBER™.



④ Push the START button for emitting UV



⑤ The time is elapsing (red timer)

The power LED becomes green when the UCUBE™ emits UV rays.



Through the safety window of the UV-CHAMBER™ you will be able to see if the UCUBE™ is emitting UV light inside the UV-CHAMBER™.

⑥ Check if the UCUBE™ is emitting UV

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End of the irradiation

One second left before the 45 seconds are elapsed and the UV irradiation is over.



OR



① Wait until the end of the elapsed time

② Push the STOP button to end the irradiation

Lock option

"LOCK" appears on the screen, when the timer screen is locked.

LOCK



OR



"LOCK" appeared



① Push the LOCK button

② Turn the key to lock the screen timer

Even if you are trying to change the timer it will not work.



No "LOCK" so you can change the time.



① Cannot change the timer when it is locked

④ Change the timer when it is unlocked

N.B: The lock option with the key (Administrator Lock) is having priority on the LOCK (yellow) button. It means that without unlocking with the key every buttons of the timer screens are not working.

Comments/Notes:

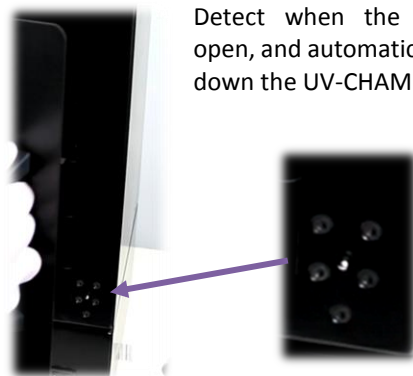
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Door security



Someone trying to open the door during insolation.

① The product is shutting down if the door is open



Detect when the door is open, and automatically shut down the UV-CHAMBER™.

② Door security system activated

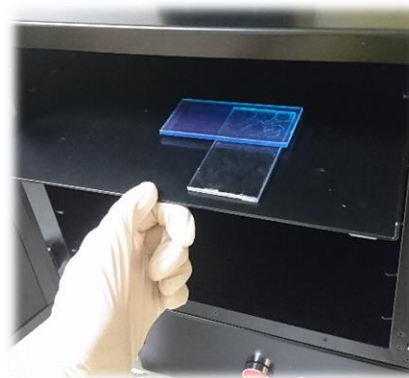
If you did not succeed to follow these steps or if our explanations are not enough clear, feel free to contact us.

EXAMPLE OF UV CURING TEST

The following pictures will show you a test of UV bonding between two pieces of plastic.

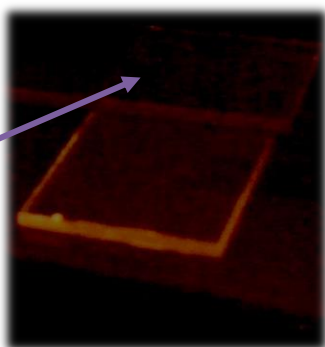


① Put your UV glue for bonding test

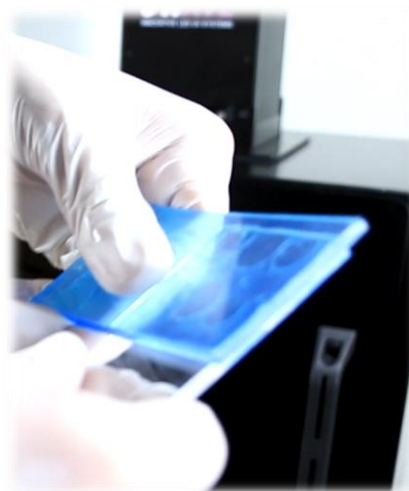


② Place your assembly into the UV-CHAMBER™

The UV glue is drying under the UV Rays emitted inside the UV CHAMBER™.



③ UV curing with the time and intensity that you have chosen



④ Verify that it is well bonded