

UV VIS LIGHT CURING SYSTEM (UVCS)

It is suitable to be used in the research of electrochromic devices, dye - sensitized solar cells, LCD, etc. It can be used in the fabrication and the encapsulation of these devices, and also can be used in the research of photocatalytic synthesis, photoetching and light degradation in the ultraviolet region.

The size of the chamber: 438mm × 335mm × 355mm (480mm include the lamp-house)

The size of the power source: 185mm × 230mm × 130mm

input: 220V AC 50Hz

Power: 250W

Lamp: High pressure mercury lamp

Max curing area: 330mm × 290mm



Independent Design

The power source, the chamber and the lamp-house are independent from each other, for the convenience of transportation, and it is very easy to assemble.



Manual Light Valve

The UV-light in the chamber can be control easily with the manual light valve, without turning the power off. This will help to increase of service life of the lamp.



Reflective Chamber

The reflective interior design of the chamber, will help to make good use of the UV-light in the chamber, and shorten the curing time.

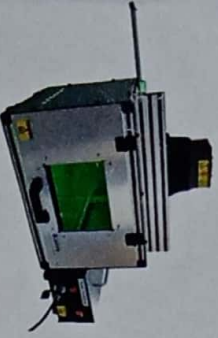
- Etching (An ITO etchant consisting of 200 ml DI water, 60ml HCl and 15 ml HNO₃ over hot plate for 2-3 min at 60 deg C)
- Removal of Resist using acetone and cleaning.

Precaution

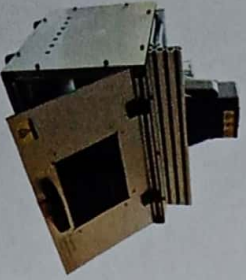
Don't keep uv light ON for long time.

Don't touch uv light lamp in ON position because it gets hotter.

User's Manual



All the pictures used in the manual are for your reference. There may be some difference between the actual appearance of the product and the pictures.



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About the Product

Developed by Zhuhai Kaivo Optoelectronic Technology Co., Ltd., the UV-light Curing System is suitable to use in the research of electrochromic devices, dye-sensitized solar cells, LCD, etc. It can be used in the fabrication and the encapsulation of these devices, and also can be used in the research of photocatalytic synthesis, photoetching and light degradation in the ultraviolet region.

Product Features

- 1) **Independent Design:** The power source, the chamber and the lamp-house are independent from each other, for the convenience of transportation, and it is very easy to assemble.
- 2) **Manual light valve:** The UV-light in the chamber can be control easily with the manual light valve, without turning the power off. This will help to increase of service life of the lamp.
- 3) **Reflective chamber:** The reflective interior design of the chamber, will help to make good use of the UV-light in the chamber, and shorten the curing time.
- 4) **Visualable curing process:** There is a black glass window in the door of the chamber, and the interior of the chamber is visualable when the lamp is turned on. And the black glass also help to protect your eyes from the hurt by UV-light.
- 5) **Upward door design:** The upward door design will help to avoid the hurt from the UV-light cause by the opening of the door by accident.
- 6) **Seven stage adjustment:** The flow conditions in the chamber can be adjusted in seven stage, it will help to decrease the temperature cause by the hot lamp.

How to use it?

1 Fix the lamp on the chamber



2 Connect the lamp to the power supply



3 Connect the cooling fan to its power supply



4 Make sure that the manual light valve can work well



5 Connect the chamber to the ground



6 Open the light valve, turn on the power



7 Close the light valve, put the sample into the chamber



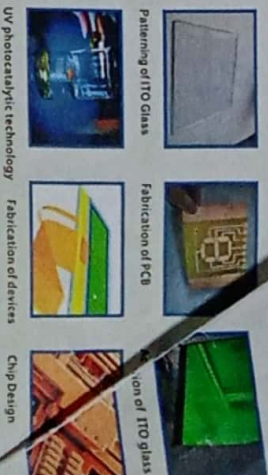
8 Open the light valve to cure the sample



9 Close the light valve, and take out the sample



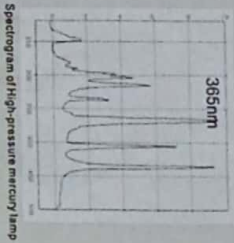
Application



About High-pressure Mercury Lamp

The mercury vapor in the High-pressure Mercury Lamp is 51-507kPa, and its main emission wavelength is at 365nm, suitable to be used in the curing of UV-curing paints, UV-curing adhesives and UV-curing inks.

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Power: 250W
Lamp: High-pressure mercury lamp



Please contact the ground when using metal shell products!

