

SOP: UVO Cleaner Model 342 Series

Purpose: Modify chemistry of PDMS-coated coverslips for microcontact printing

Location: BHE B8 (main area)

Required PPE: Flame-resistant lab coat; nitrile gloves; safety goggles; long pants; closed toe shoes

Protocol for Use:

1. Click the “on/off” switch in the bottom-right hand side to boot up the system. The system will show “00:00” on the display and the blower in the back will start to run.
2. Once the system is initialized, pull the drawer handle and place your petri dish containing PDMS-coated coverslips with the lid off. Place the lid on the bottom of the petri dish, so that both the PDMS-coated coverslips and the inside of the lid becomes are affected by the UVO.
3. The red dot should be on “Minutes” and then press and hold the “Increase” button to set the appropriate UVO treatment time.
 - a. The notation “XX:XX” corresponds to “min:sec”. Set the appropriate time as indicated on the lab protocol.
4. Click the “Start/Resume” button to start the UVO treatment process. The time will countdown second-by-second and a blue light on top of the drawer handle will be illuminating. Additionally, a buzzing noise will be heard, which indicates that the UVO treatment process is working properly (**Figure 1**).

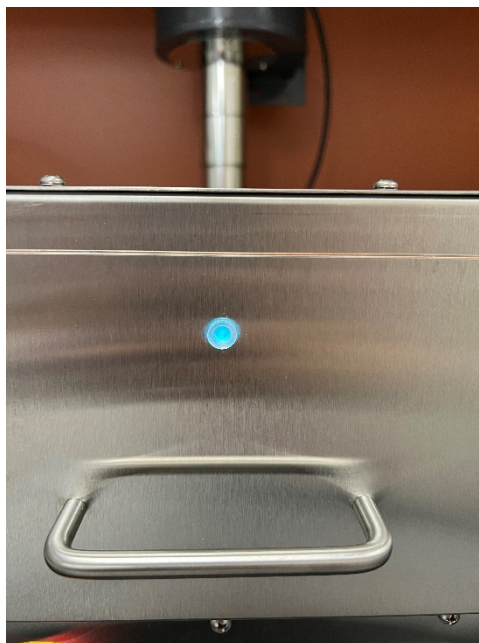


Figure 1. The blue light on top of the drawer handle of the UVO cleaner indicates that the UVO treatment is in progress.

5. Once the process is finished, the display will show “00:00” with a prolonged beeping noise and the blue light will disappear, which indicates that the sample should be removed. As soon as the handle is pulled back, the lid should be placed immediately on top of the petri dish to minimize exposure to the non-sterile environment.
 - a. When the handle is pulled back, the display will blank out, as if the system is turned off. The display will show “00:00” again when any button is clicked.
6. Push the drawer back in turn off the system after use and turn off the system.

Maintenance Schedule:

With each use: clean any spilled liquid with a Kimwipe sprayed with 70% ethanol.

Contact Information:

Lab Manager: Nathan Cho, BHE B9, (213) 740-2093

Professor: Megan McCain, DRB 140, (213) 821-0791

Vendor Information: Jelight Company Inc., (949) 380-8774, sales@jelight.com