How To

Handle UV-lamp

with Chip DSC
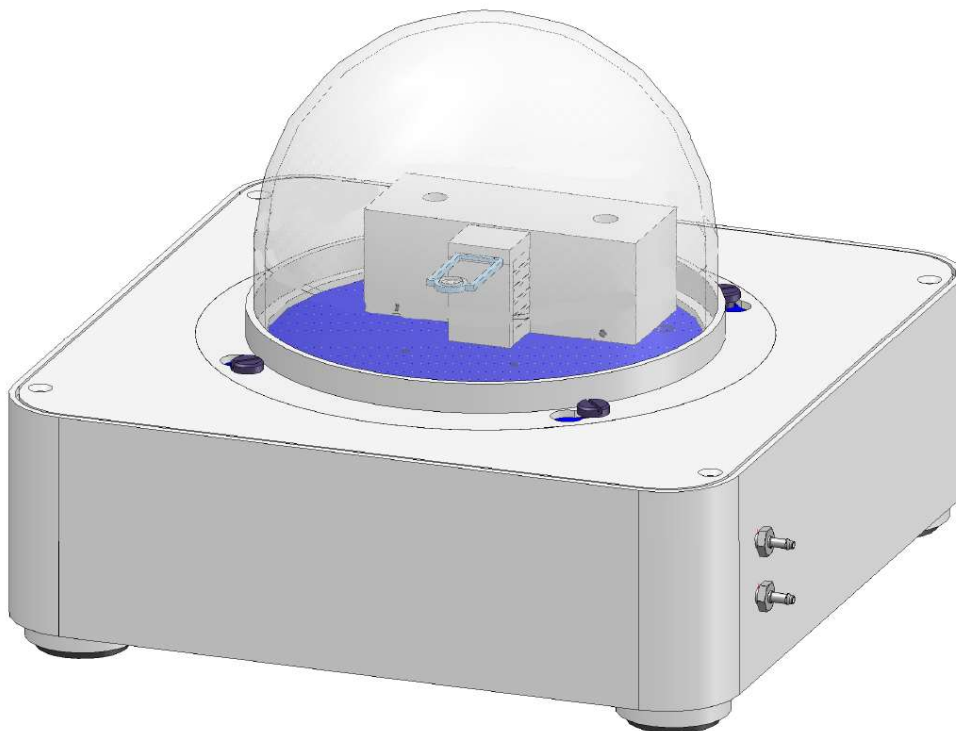
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1. General information

This manual is a short description for handling UV-lamp function for Chip DSC. The presented applications are just a few to show some possibilities. For more Information, read the other available instructions about software or specific manuals for the Chip DSC.

> **Important safety instruction:**
>
> **Make sure all safety accessories and functions work. Wear protective glasses for UV-light all the time you work with Chip-DSC UV-lamp option! UV-radiaton can harm eyes and skin.**

2. Prepare the Hardware

2.1 Requirements

- o Check if UV-Lamp and UV-Lamp power supply are on hand
- o Check if USB Dongle with unlocked UV-Function is on hand
- o Check if Chip-DSC UV-lamp measurement cell is on hand
- o UV sensitive curing adhesive or other sample of interest is available

2.2 assemble UV-Lamp

- o Install the UV-lamp in the fitting holder and fix it with screws
- o Insert the UV-lamp holder in the UV-Lamp measurement cell
- o Connect the safety switch cable with UV-lamp measurement cell
- o Connect the UV-lamp with the UV-lamp power supply
- o Connect the safety switch cable with the shown pins of UV-lamp power supply
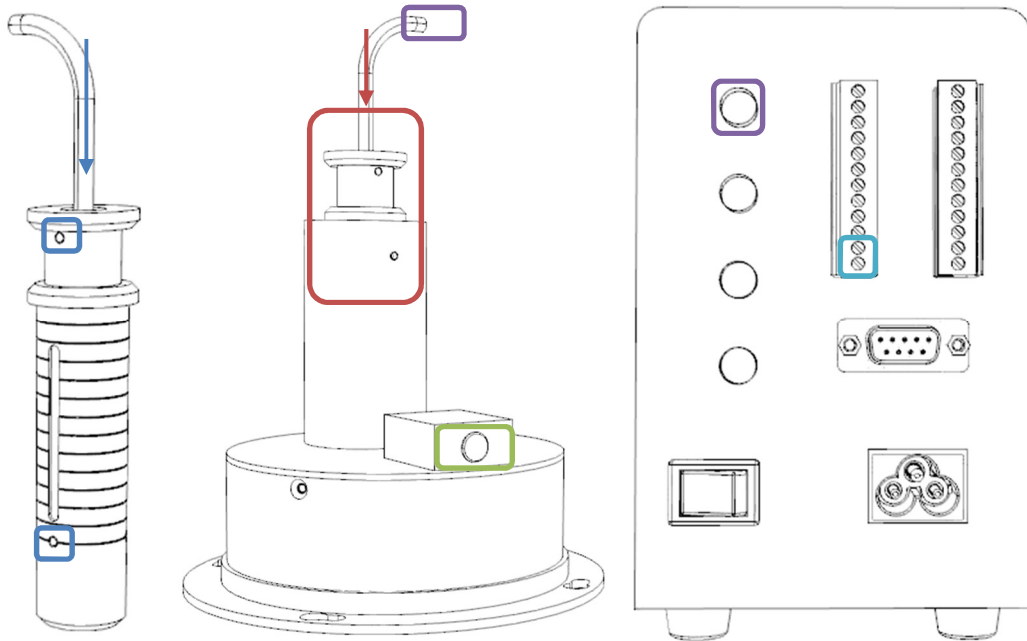
2.3 connect the UV-Lamp

- o Connect the RS232-USB connector with UV-lamp power supply and your PC
- o Connect UV-lamp power supply with power net
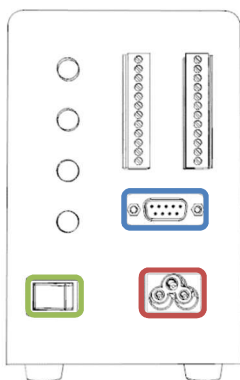

- o Turn on UV-lamp power supply

3. Prepare and setup the measurement

3.1 setup the UV-option in software

- o   Start the administration software and create a new instrument

- o   Choose "Uvitron skybeam" and press Ok

- o   Check the ComPort of your UV-lamp power supply (device manager → com ports) and insert this in device settings (administration software) of your UV-Lamp

- o   Insert a name for your UV-Lamp in device settings (administration Software) of your UV-lamp

3.2 setup measurement conditions in Acquisition software

- o   Start the acquisition software

- o   Setup your general measurement settings like name, weight and temperature profile

- o   Go to "Gas" Tab. If gas tab is not available go to the administrator software and create UV light option.
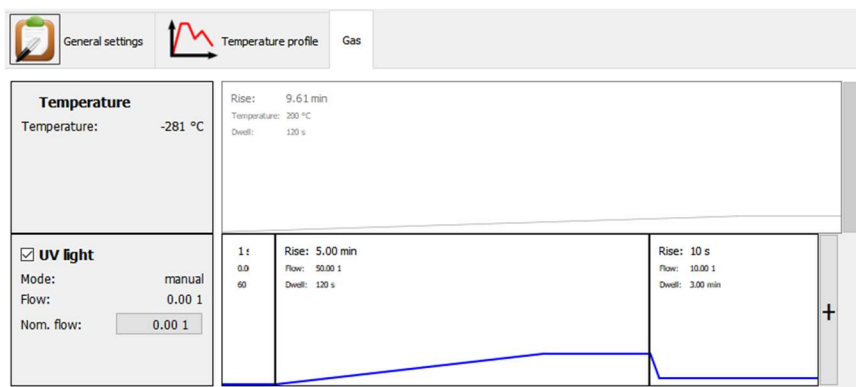
- o   Here you can setup your UV-light profile by clicking "+" and check and compare this with your temperature profile

  - o   By double click on a single part of your profile the following window will appear where you can setup the settings to your needs. The UV lamp intensity can be adjusted in terms of % in the "nominal flow" field.

    o   If you finished your setup start your measurement

4. Evaluate your measurement

    o   If your measurement finished start evaluation software and load your measurement

    o   In channel selection choose UV light and all other channels you are interested in

    o   With data explorer you can check and mark the power at a certain state in your measurement