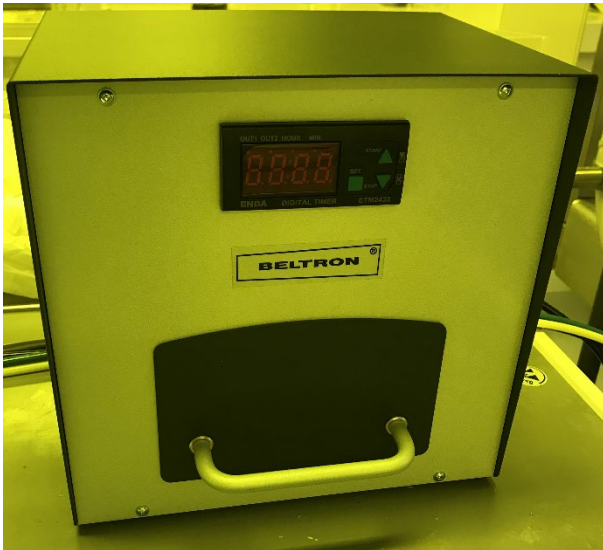# Beltron UV LED chamber

Version of 2024-11-20.

1. Introduction

The Beltron UV LED chamber is a high-power UV polymerization chamber. It is equipped with 20 LEDs emitting @ 405nm and a fully mirrored chamber, resulting in a uniform illumination. The power density, measured in the middle of the chamber is ~ 4W/cm^2.

2. Operation

- Turn on the LED chamber with the main power switch at the back of the equipment.
- Pull the handle to open the drawer and place the sample at the center of the chamber.
- Close the chamber
- On the controller, press one time on the "SET" button. The time will be blinking.
- Adjust the time with the up/down arrows. The default time format is [min:seconds].
- When the time is set correctly, press "SET" again.

- The UV illumination is at started by pressing "START".
- The lamp turns off automatically at the end of the timer or if the drawer is opened.

3. Recommended curing times

Recommendations for curing time (found @ https://support.nanoscribe.com/hc/en-gb/articles/360002022373)

- IP-Q, IP-Visio ~ 2 minutes
- IP-S ~ 4 minutes
- IP-Dip, IP-L ~ 5 minutes (maximum depth 600um)