

LumiDox II LED Array



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| Tool Type: | 96-well LED Array | |
| Location: | Elings Hall 2411 | |
| Manufacturer: | Analytical Sales | |
| Description: | Chemspeed and Zeiss Microscope Compatible | |
| Principal Scientists | E-mail | |
| Juan Manuel Urueña | jmuruena@ucsb.edu | |
| Morgan Bates | morganbates@ucsb.edu | |

About

The LumiDox Gen II LED Plate is an innovative tool designed for precise light delivery to 96-well plates. This system utilizes high-intensity LEDs arranged to provide uniform, controlled light exposure across all wells, making it ideal for light-activated experiments. The plate allows for customizable light intensities and wavelengths, supporting a variety of experimental conditions. The LumiDox Gen II's user-friendly interface and robust design enable consistent and repeatable illumination, advancing research in areas such as photochemistry, photobiology, and cell signaling.

Detailed Specifications

- * **LED technology:** High-intensity LEDs
- * **Compatible formats:** 96-well plates and 96-well shell vial plates (1 mL scale)
- * **Wavelengths available:** 365, 420, 445, and 530 nm

- * **Power control:** Adjustable power settings
- * **Uniformity:** High across all wells



Precise control of LEDs (Note: There is no individual LED control)



GUI for controlling LED array

* Make sure USB from LED controller is connected to COM3 (USB port on left side). This GUI can be found on BioPACIFIC MIP laptop for 2411. The GUI is called LED power and it is located on the Desktop. **time (sec):** duration in seconds that LEDs are on **current 9mA):** intensity of light (range 100 -3,000 mA) **delay (sec):** time between pulses **total time (min):** total time of experiment including on and off time

Safety Concerns

The LumiDox Gen II LED Plate produces high-intensity light, which requires the following safety precautions:

- Always inspect the LEDs before use to ensure no damage or malfunction.
- Do not stare directly at the light sources during operation.
- Use protective eyewear rated for specific wavelengths, especially when working with high-intensity light in the UV range.
- Ensure that all users are familiar with proper operation procedures and safety protocols outlined by the manufacturer.

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Last update: **2024/10/11 17:37**

