

# LED plate

## Lumidox II



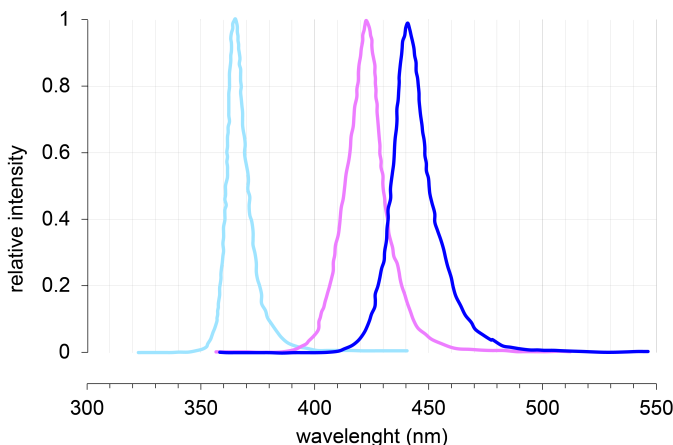
<b>Tool Type:</b> "LED 96 plate"	
<b>Location:</b> "Elings Hall 2411"	
<b>Supervisor</b>	<b>Tool Lead</b>
Juan Manuel Urueña	"WW Name"
jmuruena@ucsb.edu	"WW Email"
<b>Description:</b> "UV LED well Plate"	
<b>Manufacturer:</b> "Analytical Sales"	

## About

LED array compatible with 96-well plates at different LED wavelengths

## Detailed Specifications

### Spectrum of LED plates



Typical spectral profile for each of the LED well plates available 365 nm, 420 nm, and 445 nm.

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## Plate Layout Template

[96 well plate experiment layout](#)

[96\\_well\\_plate\\_layout.pdf](#)

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## Safety Concerns

Read the manufactures manual before first use. If the LED plate acts in a way that is not described by the manual, turn off the plate and contact Analytical Sales.

Before you start please make sure to do the following:

- Have proper PPE for skin and eyes to protect from high power LEDs
  - Ensure those around you also have the same level of PPE
  - Connect the LED plate to the Lumidox II Controller
  - Disassembling the LED plate may cause an electric shock or damage to the plate. Do not disassemble any parts of the LED plate not mentioned in the instruction manual. In case of a problem with the LED plate
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## Operating Procedures

[Well Plate Calibration](#)

[multiwellplatecalibration.pdf](#)

[96 well plate experiment](#)

[96-wellexperiment.pdf](#)

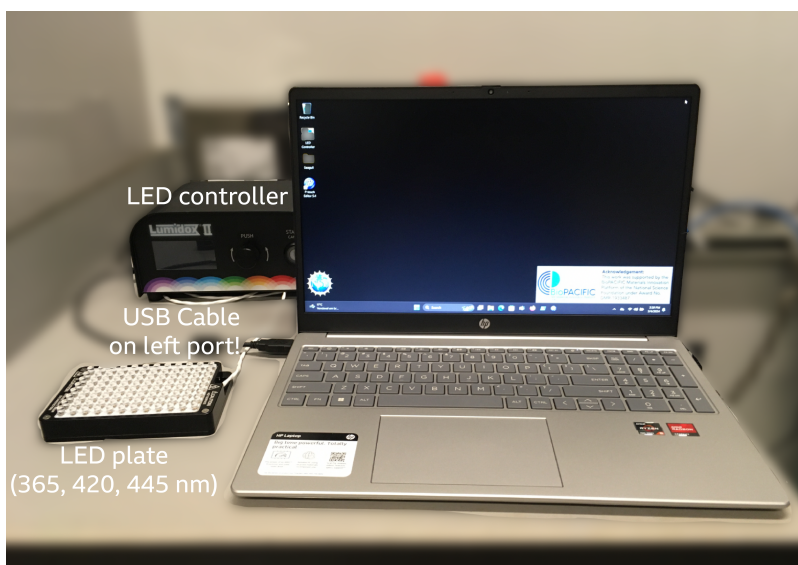
## Reference Documentation

[LED well plate controller manual](#)

lumidox-ii-manual\_rev1h.pdf

## Training Documentation

### Automated Remote Activation of LED plate



**NOTE** USB cable to controller needs to be connected on left port of computer for it to work properly with the computer.

The LED logo on the desktop opens a GUI we designed to control the LED plate. All it requires is a current and time of exposure.

**Current:** the range is from 100 to 3000 mA

**Time:** time has to be a whole number in seconds



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