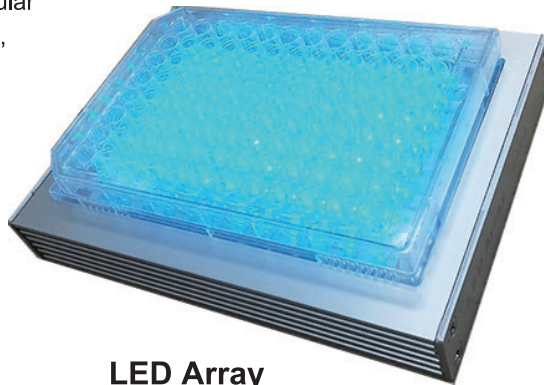


LED Array System

Optogenetics became explosively popular for controlling animal behaviour in-vivo, however, recently this technology was applied for in-vitro cells or tissues for controlling gene expression. For this purpose, long-term and time-controlled light stimulation in a culture incubator is required.. This full waterproof LED array fulfills all the requirements for the in-vitro optogenetics experiments



LED Array

Model: LEDA-x

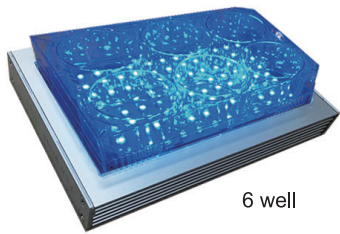
x: color code, see the table below



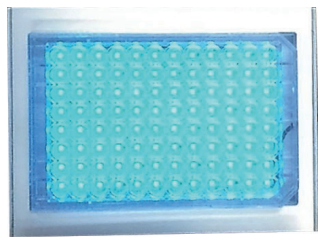
LED Array Driver

Model: LAD-1

Fits Perfectly for multi-well plate



6 well



Upper view with 96 well plate

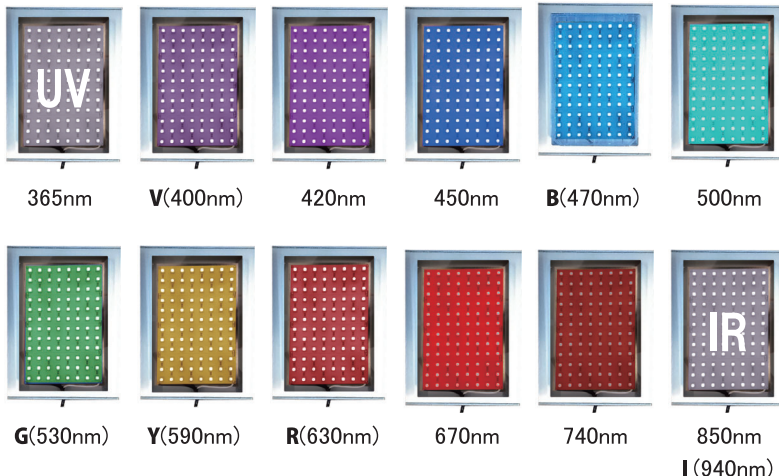
It is designed for any commercial, standard-sized multi-well plates so can be used together with e.g. 6, 12, 24, 48 and 96 well plates. Especially it perfectly fits for standard-sized 96 well plate because each LED element comes just under each well.

Trigger Input



By the mode switch of LAD-1 LED Array Driver you can choose constant mode or trigger mode. In trigger mode, the Trg In BNC on the back panel is used for receiving trigger TTL pulses from a stimulator so that it enables time-controlled pulsed stimulation in-vitro.

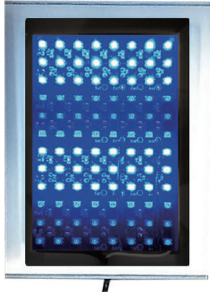
Many Color Options



... For other colors, please contact us.

Model	Description
LAD-1	LED Array Driver
LEDA-365	LED Array, 365nm
LEDA-V	LED Array, 400nm
LEDA-420	LED Array, 420nm
LEDA-450	LED Array, 450nm
LEDA-B	LED Array, 470nm
LEDA-500	LED Array, 500nm
LEDA-G	LED Array, 530nm
LEDA-Y	LED Array, 590nm
LEDA-R	LED Array, 630nm
LEDA-670	LED Array, 670nm
LEDA-740	LED Array, 740nm
LEDA-850	LED Array, 850nm
LEDA-I	LED Array, 940nm
STOmK-2	Stimulator for Optogenetics

4 section LED Array System



Model: LEDA4-x

x: color code, see the table in front page



Model: LAD-4

LED4-x has 4 independently controllable sections each having 24 LED. LAD-4 is independent 4ch LED array driver designed for controlling LEDA4-x. It has 4 trigger input BNC on the back panel for independent control of each section in LEDA4.

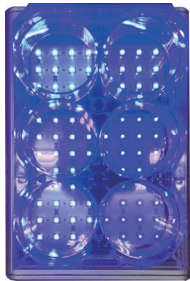
4 channel Stimulator



Model: STO-4

STO-4 is 4ch version of our STOmK-2 stimulator for optogenetics. STO-4 is 4 channel constant voltage pulse generator, and each channel can be controlled independently. The output is 0 ~ 5V analog voltage, which is suitable for controlling analog-voltage compatible light sources, e. g. our LAD series LED array system. Especially, it is ideal for controlling 4 section LED array (LEDA4-x and LAD-4).

6 section LED Array System



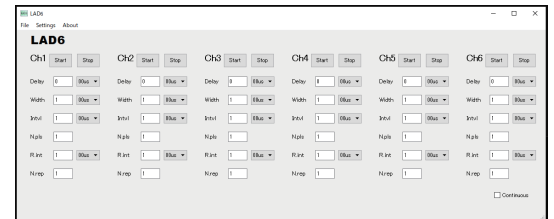
Model: LEDA6-x

x: color code, see the table in front page



Model: LAD-6

LEDA6 has 6 independently controllable sections each having 16 LEDs. It is suitable for 6 well plate experiment enabling independent light power and stimulation timing control. LAD-6 is independent 6ch LED array driver designed for controlling LEDA6. Unlike LAD-4, it does not have trigger input BNC on the back panel, instead it is connected to PC via USB cable and controlled by LAD6 software.



LAD6 Software (Included in LAD-6)

2 color LED Array System

Model: LEDA2-x/x

x: color code, see the table in front page

In the LEDA2 two color LED array system, you can pick any two colors from the color options in the table above. The two LEDs are alternately arranged and the boarder comes to the center of each well in 96 well plate. It is suitable for expression control of two different genes, etc. For independent control of each color, 2x LAD-1 are required.

- LED 1
- LED 2
- 96 well



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