Specification

	Previous Product	W3
Number of LED	Up to 96ch	
LED Wavelength	RGB : 625nm, 525nm, 475nm (Fixed) Sigle : 475nm, 525nm, 590nm, 625nm, 660nm, 730nm (Custom wavelength available)	
Brightness Correction	X	O
Communication Speed	55ms per channel	10ms or less regardless of channel
Method of Communication	RS232	USB
Time Error (24hr operation)	Dozens of seconds	100ms or less
Interface	PC, Console	PC
LED Temperature Control	Manual on/off control of heat dissipation fan	Automatic control
Waterproof	X	IP55
Power Consumption	Input : 100-240vac, 50/60Hz, 0.8A	
Dimension	191(W) X 122(D) X 137(H) mm	154(W) X 120(D) X 50(H) mm
Weight	LED Module : 0.5kg Console : 1.85kg	LED Module : 0.85kg Control Module : 0.21kg

W3

Wellplate LED Light
Irradiation system

LCI
Live Cell Instrument

W3

Description

W3 supports multi-well plate platform of Optogenetics technique for manipulating cell activity and expression by light stimulation. Light Irradiation intensity and wavelength to independent well are controllable by its user-friendly & intuitive dedicated PC software, illumination intensity and pattern are programmable.

Features

Optimized for internal use of incubators

▶ Composed with waterproof coated circuit boards and **IP55**[*] or higher parts for use in high humidity environments.

▶ The control signal operates for a long time without impact of noise even when in the incubator.
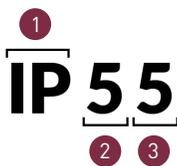
Uniform brightness between LEDs

▶ Uniform brightness correction will be done before shipment using LED brightness correction function

▶ Brightness difference between LEDs up to ±5%.

LED anti-overheating temperature control function

▶ Measures the temperature of the LED module to prevent overheating of the LED module

▶ Minimize noise with linear heat dissipation fan control

Provide accessories to help with the experiment

▶ Provides a spacer that can adjust the distance from the sample.

▶ Provides dedicated cover preventing light scattering.

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[*]**IP55 :**

IP 5 5

1. Ingress Protection

2. Solid particle protection Grade 5
   Protected against quantity of dust that could interfere with the normal operation of the product but not fully dust tight.
   Complete protection against solid objects.

3. Liquid ingress protection Grade 5
   Protection assured against water jets projected by a nozzle (6.3mm) from any angle

STRUCTURE LED Module

Light Scattering
Protection Cover

Commercial Wellplate
(Not Included)

Distance Adjustment
Spacer

LED Module

R   G   B

W3 LED Module

<PC Software>

Connect C type cable to
LED port on W3 LED Module

Connect PC port on
Control Module to PC

W3
Control Module

DC 12V 3A
Adapter

220V