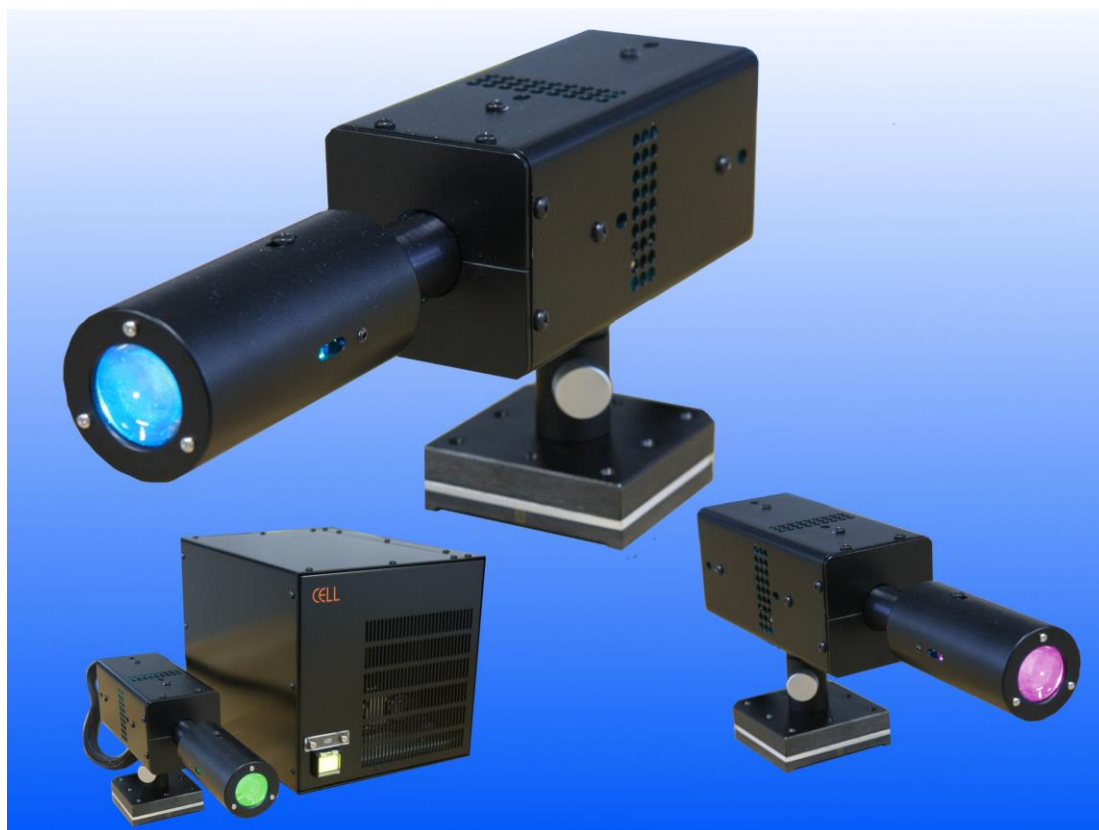


# *Iris-S*

*(LED light source for photoreaction)*



## Overview

- Iris-S is an irradiation apparatus that provides uniform and stable light with low power consumption by adopting our new optical engine and control board.
- Iris-S introduces high-volume LED monochromatic-light source for photochemical reactions.
- Adopting LED for its light source, Iris-S is capable of long term, continuous irradiation since LED makes the life of the light source longer lasting and inhibits heat development.
- The RS-232C, a standard equipment of Iris-S, enables APC (Auto Power Control) and ACC (Auto Current Control) of LED and facilitates various operations, such as ON/OFF of irradiation.
- Maintaining a constant level of the light intensity by APC, light irradiation becomes more stable.
- The LED rod has a camera screw (1/4-20UNC).
- LED rods with various wavelengths are available.

※ Iris-S has been developed, thanks to a great deal of cooperation from Professor Osamu Ishitani at Department of Chemistry, Graduate School of Science and Engineering, Tokyo Institute of Technology.

# Specifications

## 1. LED rod

Wavelength/Model No.	Wavelength [nm]	Model No.	Wavelength [nm]	Model No.	
Ultraviolet light	365	IRS-H0365A	Visible light	470	IRS-H0470A
	400	IRS-H0400A		492	IRS-H0492A
Visible light	405	IRS-H0405A	632	IRS-H0632A	
	420	IRS-H0420A	660	IRS-H0660A	
	430	IRS-H0430A	Infrared light	730	IRS-H0730A
	440	IRS-H0440A		850	IRS-H0850A
	450	IRS-H0450A		940	IRS-H0940A

※ Please consult with us when a wavelength other than that in the above table is required.

Irradiation area	7 sq. mm ※1
FWHM	10nm ※1 (full width at half maximum)
Irradiation distance	35mm ※1
Irradiation intensity	Maximum 30mW/cm <sup>2</sup> ※1
Irradiation stability	Within ±3%/h (after an elapse of 30minutes from the LED lightning)
Cooling method	Forced air-cooling

※1: Please consult with us for other specifications.

## 2. LED controller

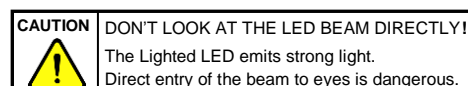
Model No.	IRS-1000
Control channel	1ch
Control method	ACC (Auto Current Control), APC (Auto Power Control)
Driving power source	DC36V
Driving method	MOS FET constant current sink driving
Rear switch	Power: ON/OFF
Front switch	LED light: ON/OFF
Interface	RS232C (1 port)
Protective function	Slow up, Slow down

## 3. General specifications

Operating temperature range	0°C~40°C
Saving temperature range	-10°C~60°C
Input voltage	AC 85~250V ±5% 50/60Hz
Power consumption	500VA
Dimensions	LED rod: 60(W) × 60(H) × 280(D)mm (excluding protrusions) LED controller: 200(W) × 200(H) × 280(D)mm (excluding protrusions)
Weight	LED rod: approx. 1Kg      LED controller: approx. 7.5Kgs

## 4. Accessories

AC cable  
Applications for controlling



※ Specifications and design may change without advance notice.

### Manufacture:

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