

LED Light Source CL-1501

High-power LED light source with various wavelengths



Features

- Rich lineup of LED heads
- Adjustable light intensity
- Timer function *Option
- Attachable lens units
- Filter holder *Option
- Long lamp life

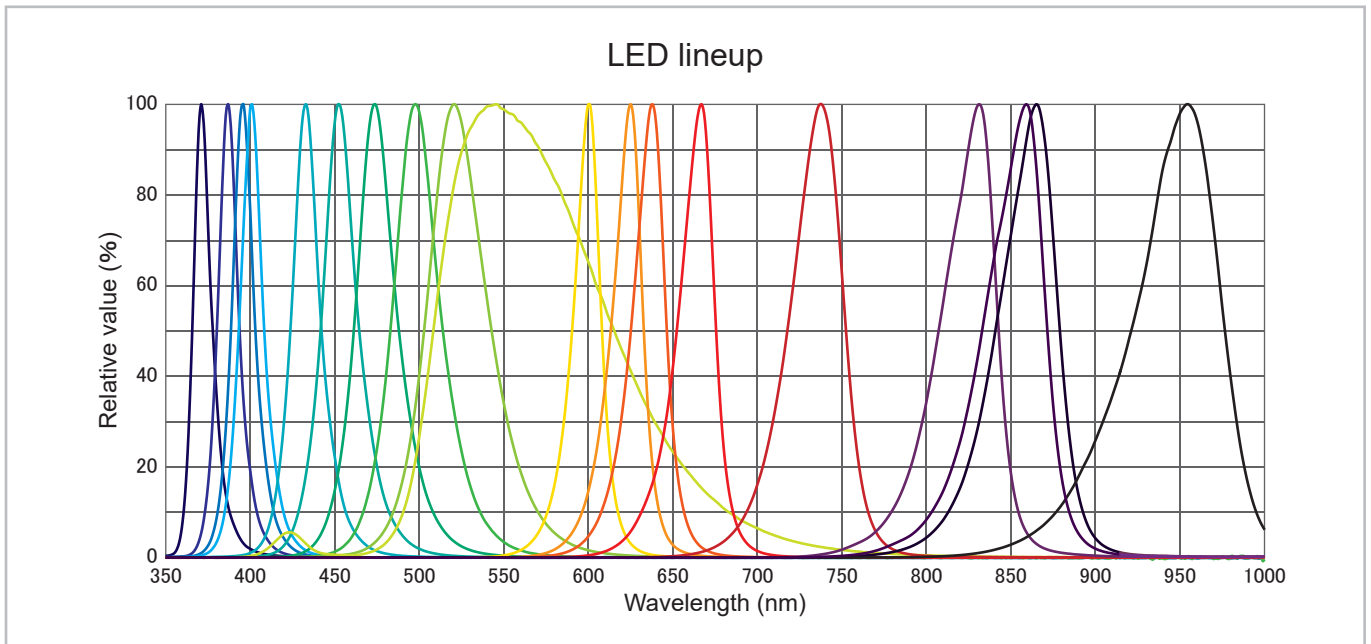
Applications

- Photoredox reaction
- Photochromism
- Organic synthesis
- Photocatalysis
- Artificial photosynthesis



Bright and compact LED light source

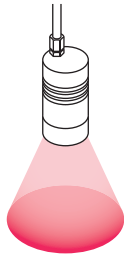
Various LED heads to select desired wavelengths



Usage Example

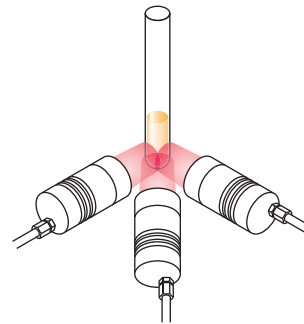
Wide-angle lens

You can achieve a wide-range illumination.



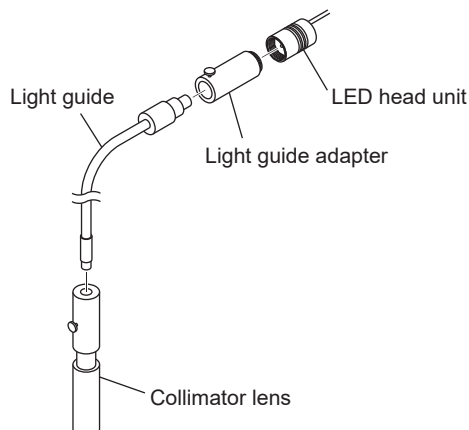
Narrow-angle lens

You can easily illuminate a sample from the side of a test tube. It is also possible to increase the light intensity by adding LED heads.



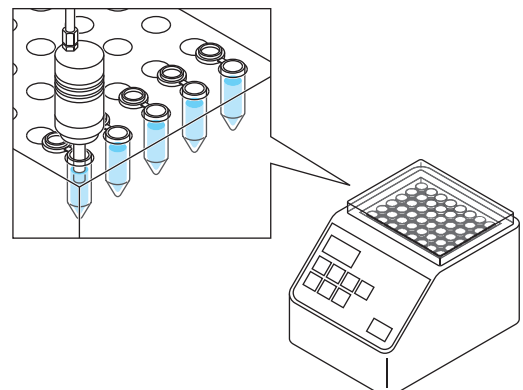
Uniform illumination

You can achieve an uniform illumination by connecting the light guide and the collimator lens to the LED head via the light guide adapter.



Light guide rod

You can illuminate a sample in a micro tube via the light guide rod.



Configuration

Power supply



LED head



Lens



CL-1501



Type	Model
Wide-angle lens	CL-H1LCB01
Narrow-angle lens	CL-H1LCB02
Protective glass	CL-H1GCQ01
Cap	CL-H1MPC1

*Be sure to attach any of lens unit to the LED head.

Options

Timer CL-TCN1

You can control the timer by connecting it to the CL-1501. No PC required.



365nm	CL-H1-365-9-1-B
385nm	CL-H1-385-9-1-B
395nm	CL-H1-395-9-1-B
405nm	CL-H1-405-9-1-B
430nm	CL-H1-430-9-1-B
450nm	CL-H1-450-9-1-B
470nm*	CL-H1-470-9-1-B
505nm*	CL-H1-505-9-1-B
525nm*	CL-H1-525-7-1-B
568nm*	CL-H1-568-9-1-B
590nm*	CL-H1-590-9-1-A
615nm*	CL-H1-615-9-1-A
625nm*	CL-H1-625-9-1-A
660nm	CL-H1-660-9-1-A
730nm	CL-H1-730-9-1-A
830nm	CL-H1-830-9-1-B
850nm	CL-H1-850-9-1-B
860nm	CL-H1-860-9-1-B
940nm	CL-H1-940-9-1-A

*Dominant wavelength

- The temperature and current affect the actual spectrum and luminance. Please use a nominal wavelength as reference.
- Dominant wavelength differs from spectrometer's peak wavelength due to human eye sensitivity.
- Please be sure to purchase the LED head with the lens.

< Options >

LED head Extension Cable

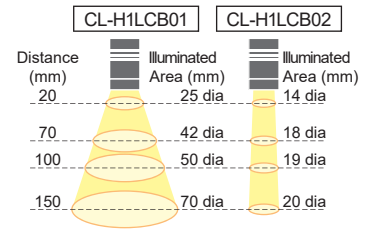
1000L CL-H1EC1

2000L CL-H1EC2

Package Contents

- CL-1501 main unit
- Power supply AC adapter
- Instruction manual

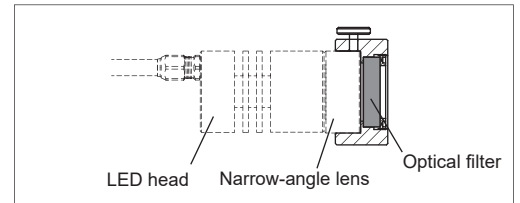
In IEC 62471 "Photobiological safety of lamps and lamp systems", many of listed LED heads belong to Risk Group 3. Please use this unit carefully according to the instruction manual and the label.



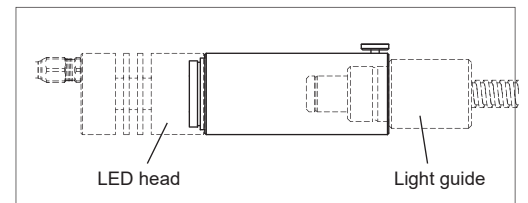
< Options >

Filter Holder CL-H1FH2

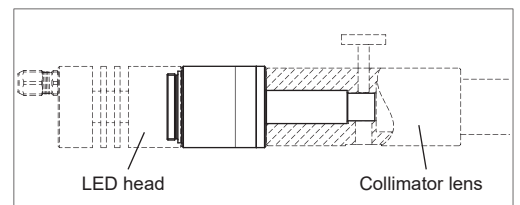
*It can be attached to the narrow-angle lens.



Light Guide Adapter CL-H1-LGA-B



Lens Adapter CL-H1-RLA-Q



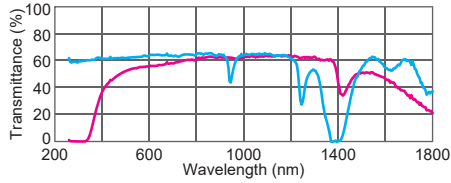
Option Accessories

Light Guide



The output light from the CL-1501 is delivered to a desired direction by the light guide.
We also offer a multi-branch light guide for custom.

Spectral Performance - Light Guide

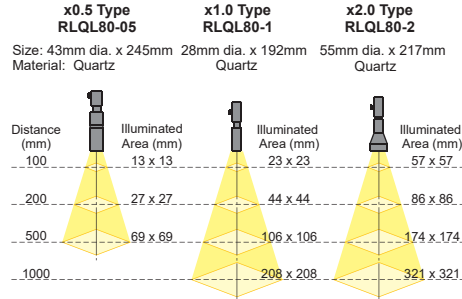


- Quartz Light Guide**
 - Length(L): 1m, 2m
 - Fiber bundle: 5mm dia.
 - Core: 200µm dia.
 - Numerical aperture: 0.22
- Hybrid Light Guide**
 - Length(L): 1m, 2m
 - Fiber bundle: 5mm dia.
 - Core: 50µm dia.
 - Numerical aperture: 0.57

Collimator Lens



Each collimator lens is designed to provide the uniform illumination by using with the light guide.



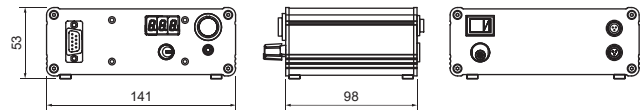
General Specifications

- Model: CL-1501
- Light control method: Digital control 0-100
- Output control method: Constant current control
- Number of outputs: 1 channel
- Maximum output current: 350mA, 500mA, 700mA, 900mA
 - *Auto-judge according to a connected LED head
- External ON/OFF: External ON/OFF control function*
- Simultaneous control: Daisy chain up to 8 units*
 - Supply voltage: Power supply AC adapter
 - Input: AC100-240V, 50/60Hz
 - Output: 15V 1.2A
- Connector for LED heads: D-sub 9 pin
- Connector for daisy chain: R03-R3F (Trigger OUT), R03-R3M (Trigger IN)
- Recommended environment: Temperature 5 - 35 deg C
 - Humidity 20 - 75% *Avoid condensation
 - For indoor use only
- Cooling method: Natural cooling
- Dimensions: 141(W) x 98(D) x 53(H)mm
- Weight: 430g

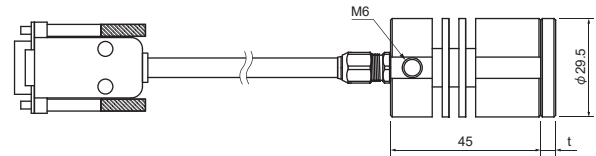
*A dedicated external device is required.

Dimensions

Main unit



LED head and Lens



- t = Wide-angle lens 11.3
- Narrow-angle lens 13
- Protective glass 4.5

Unit: mm

*Product specifications are subject to change without notice.

ASAHI SPECTRA

Gardenia Bldg. 4F, 2-13-1 Kamijujo, Kita-ku, Tokyo 114-0034 Japan
Phone: +81-3-3909-1151 / FAX: +81-3-3909-1152
E-mail: info@asahi-spectra.com

www.asahi-spectra.com