Compact Xenon Light Source 100W
LAX-C100

Heatless illumination with desired wavelengths

Features

- IR heat blocking by mirror module*
- Built-in filter holder*
- Adjustable light intensity
- Flexible illumination by light guide
- No need of optical axis alignment
- RS232C remote control

*Options

Optical System

1. Xenon lamp
   - Emits wide spectrum from UV to IR

2. Mirror module (Option)
   - Enables to specify xenon spectrum (UVB, UVA, VIS or IR)

3. Filter holder (Option)
   - Enables to specify wavelength more finely by optical filters
The mirror module blocks the heat and stray light

The LAX-C100 is the reasonable xenon light source with xenon 100W lamp. The proprietary mirror module blocks the heat and stray light, and only desired wavelength range is obtainable. The LAX-C100 can also emit monochromatic light by the bandpass filter.

*Mirror module, filter holder and optical filters are optional.

Usage Example

Monochromatic Light with Optical Filters

- Bright monochromatic light
- Instead of multiple wavelength laser
- Output beam is brighter than monochromator

UV Light Source

- Bright UV light
- It is also possible to obtain the desirable UV wavelength range with the combination of optical filters

Technical Data

Lamp Start-up Characteristics

Lamp Fluctuation
Features

Optical System

- Xenon Lamp
- Mirror Module (Option)
- Filter Holder (Option)
- Light Intensity Control

**Xenon Arc Lamp**

The 100W xenon arc lamp is mounted into the cartridge and it can achieve the efficient transition of xenon lamp energy. The lamp cartridge is easily replaced and alignment is not necessary.

**Mirror Module (Option)**

This sophisticated optical unit consists of four cold mirrors to block unwanted energy from xenon lamp and only desired throughput is obtainable. The LAX-C100 offers 4 types of mirror module.

**Filter Holder (Option)**

There are 2 types of the filter holder.
1. 25mm dia. x 2 pcs.
2. 50mm dia. or 50 x 50mm x 1 pc.

**Usage Example of 25mm dia. Holder**

*25mm dia. holder and 50 x 50mm holder cannot be mounted together.

**Light Intensity Control**

Built-in plate enables a simple variable light control from 5 to 100 steps. It is useful for microscope or imaging application.

**Panel Controls**

User-friendly menu and comprehensive display for easy operation.

1. Turn On/Off the xenon lamp
2. Shutter function Open/CLOSE
3. Light intensity adjustment

**RS232C Remote Control**

The LAX-C100 can be controlled remotely by using RS232C.
Options

Light Guide

The output light from the LAX-C100 is delivered to a desired direction by the light guide. We also offer a multi-branch light guide for custom.

Spectral Performance

Collimator Lens

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

Narrow Bandpass Filter

We offer a wide variety of narrow bandpass filters for a monochromatic illumination.

Obtainable Throughput Ranges

<table>
<thead>
<tr>
<th>Mirror Module</th>
<th>Spectral Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAX-C100</td>
<td>UVB 240-300nm</td>
</tr>
<tr>
<td></td>
<td>UVA 300-400nm</td>
</tr>
<tr>
<td></td>
<td>VIS 400-700nm</td>
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<tr>
<td></td>
<td>IR 700-1000nm</td>
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</tbody>
</table>

Dimensions

Contact us for information about filters not listed above.

General Specifications

Model: LAX-C100
Output wavelength: 240 - 1000nm
It depends on the mirror module.
Circuit method: Switching power supply
Input voltage: AC100V 50/60Hz (Input range: AC 90 - 132V)
AC200V 50/60Hz (Input range: AC198 - 264V)
*Select input voltage when placing an order.
Apparent power: Less than 350VA (100V/50Hz)
Less than 440VA (240V/50Hz)
*Lamp type: Xenon lamp 100W
Lamp voltage, current: 12.8 - 14V 7.2A (DC) *Representative value
Lamp life: 500h (Average)
*When the light intensity has decreased by 50% from the initial value.
Optical axis alignment: Cartridge type (Alignment-free)
Cooling method: Forced air cooling
Shutter: Pulsed motor drive
Light intensity control: 100 - 5 (Steps) Continuously variable
Controller: Built-in
Remote control: RS232C
*The cable must be less than 3m.
Safety mechanism: Xenon lamp problem, Rear door is open, Lamp usage exceeds 500 hours, Cooling fan problem, Temperature anomaly
Recommended environment: Temperature 10 - 35 deg C Humidity 20 - 80% *Avoid condensation Dimensions: 200(W) x 340(D) x 245(H)mm Weight: 8.2kg

Package Contents

- LAX-C100 main unit
- Lamp cartridge
- AC cable (3m)
- RS232C cable (1.8m)
- Instruction manual

Wavelength (nm) | Transmittance (%) |
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>254</td>
<td>XHQA254</td>
</tr>
<tr>
<td>250</td>
<td>XHQA300 - XHQA390</td>
</tr>
<tr>
<td>360</td>
<td>XHQA300 - XHQA390</td>
</tr>
<tr>
<td>400</td>
<td>XHQA400 - XHQA700</td>
</tr>
<tr>
<td>500</td>
<td>XHQA710 - XHQA890</td>
</tr>
</tbody>
</table>

Contact us for information about filters not listed above.

ASAH SPECTRA

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

*Product specifications are subject to change without notice.