ASAHI SPECTRA

Xenon Light Source 300W

MAX-303

300W xenon light source - no transfer of heat

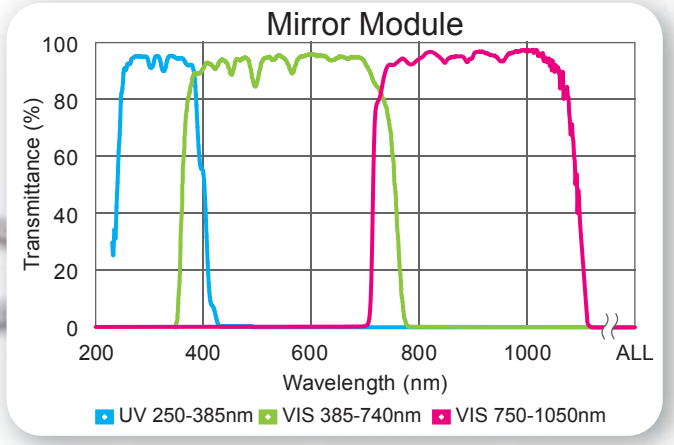
CE marked

Features

- Perfect heat free design
- UV illumination (254-390nm)
- Filter wheel can be mounted 8 filters
- Continuous light control
  from 100 to 5 (Transmittance)
- Built-in shutter

Applications

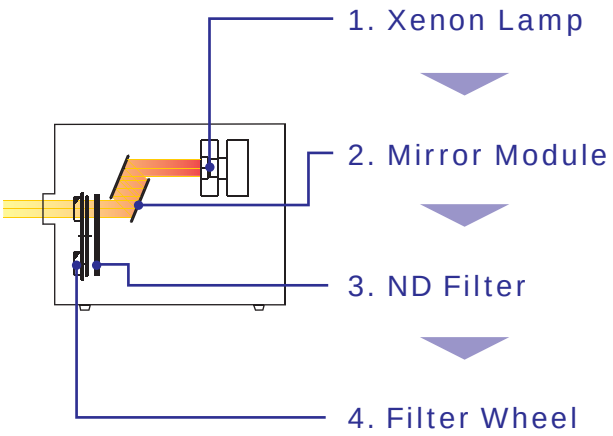
- Photocatalyst
- Photochromism
- Chemical Analysis
- Spectroscopy



www.asahi-spectra.com

Features

MAX-303



Panel Controls

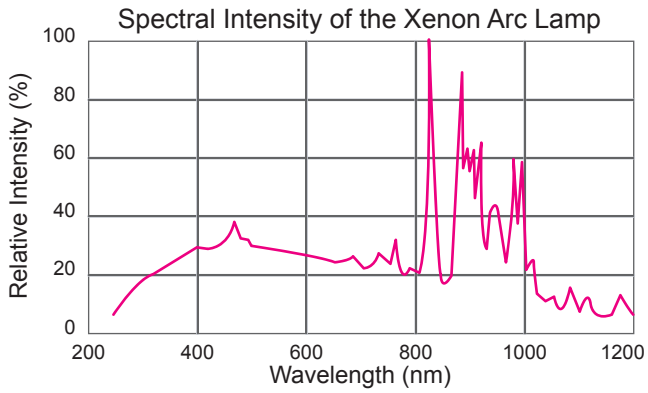
User friendly menu and comprehensive display for easy unit operation and maintenance.

1. **Exposure Time Set 0.5-99999.9sec**
2. **Shutter Activation open/close**
3. **Filter position**
4. **Light Intensity Adjustment**

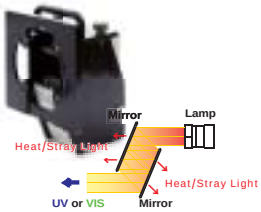
*All of those features can be controlled remotely by using RS232C.

1. CERMAX Xenon Arc Lamp

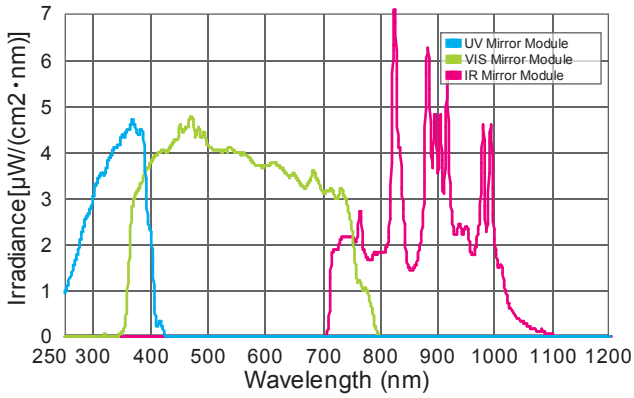
The xenon lamp efficiency is enhanced by the integral parabolic reflector and molded heat sink which serve maximum transition of light energy, color temperature of 5600 kelvin. The lamp replacement is easy and precision system alignment is not required.



2. Mirror Module

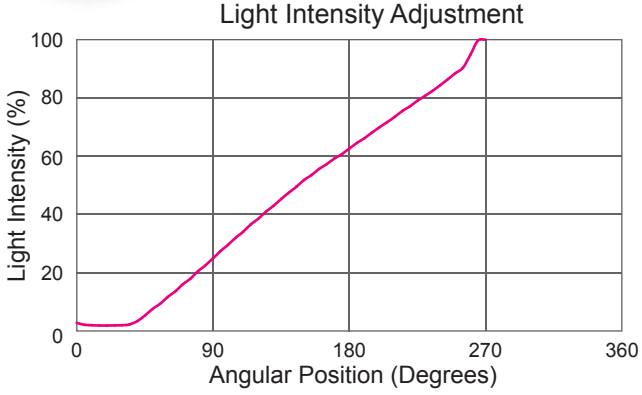


This sophisticated optical unit consists of several multi-coated filters to block unwanted energy from xenon lamp and only desired throughput is obtainable. The MAX-303 offers 3 types of mirror modules, UV, VIS and IR types.



3. ND (Neutral Density) Filter

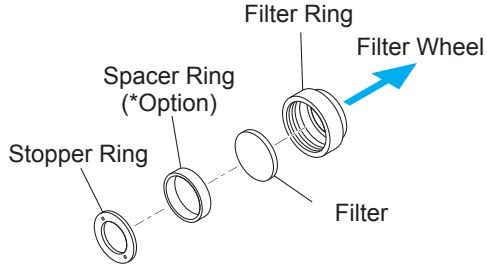
Built-in variable ND filter allows precise control of lamp intensity by 1% within the range of 5% to 100%. It is applicable for temperature care applications.



4. Filter Wheel

The filter wheel can be mounted to the maximum of 8 filters (1 inch diameter). To customize spectrum output, wide varieties of optical filters, shortpass, longpass, and bandpass are available.

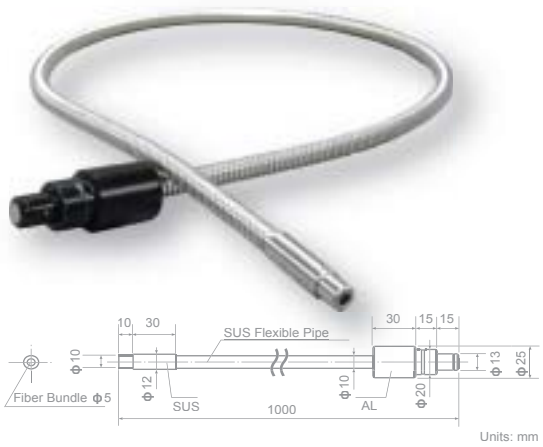
How to set a filter



- Usable filter size: 25mm dia., thickness 1.0 - 6.0mm
- Filter rings and stopper rings are supplied.
- Filters are optional.

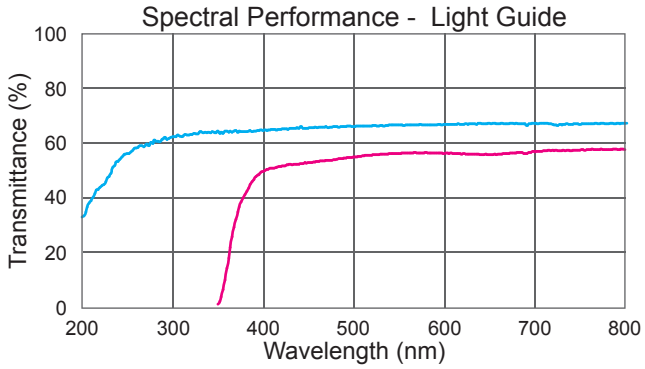
Options

Light Guide



Single Legged Light Guide

The illuminating light from the MAX-303 is delivered to the point of use by the light guide efficiently. We carry single legged light guides as well as multi-legged types for different your needs.

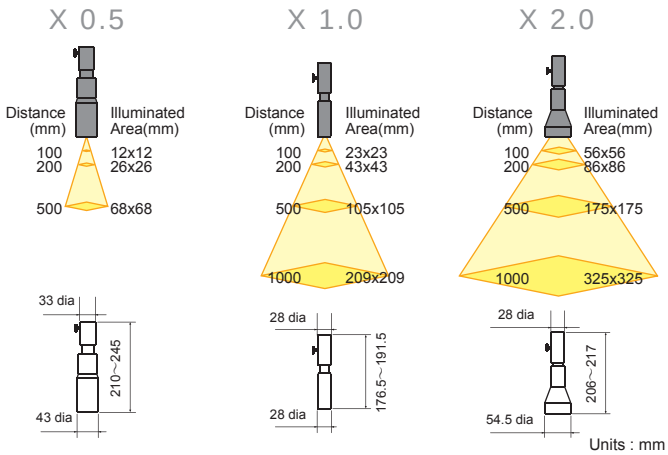


Fused Silica Guide
- Core Dia:200μm dia.
- Numerical Aperture:0.22
- Operating Temp:<500 deg C

Hybrid Guide
- Core Dia:50μm dia.
- Numerical Aperture:0.57
- Operating Temp:<350 deg C

Collimating Lens

Collimating lens reduces the divergence of light from the light guide and provide uniform light output. It is suitable for directional backlighting which requires clear silhouette of an object.

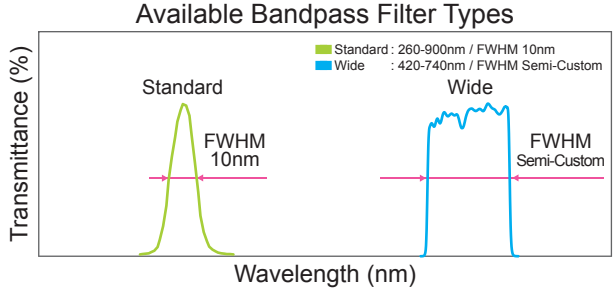


Optical Filters

Asahi Spectra produces varieties of precise optical filters to help modification of spectral output from the MAX-303. Along with the MAX-303 built-in features such as mirror module, variable ND filter, and shutter control, unique lighting environments for any applications are simply produced.

Bandpass Filter Series

Asahi Spectra bandpass filters are available for use with the MAX-303. They allow users to tailor the spectral throughput of the system to suit wide variety of applications more precisely while eliminating unwanted energy.

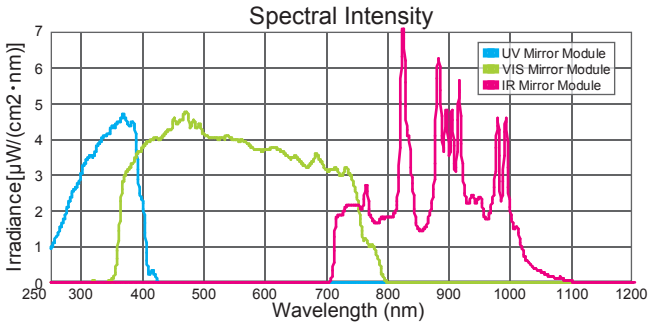


Specifications

Includes

- Lamp x 1
- Mirror Module x 1 *Choose UV or VIS
- Light Guide Adapter x 1
- AC Cable x 1
- Filter Fitting Tool x 1
- Instruction Manual x 1
- 1 year warranty (Excluding Lamp)

Possible Combinations



Obtainable Throughput Ranges

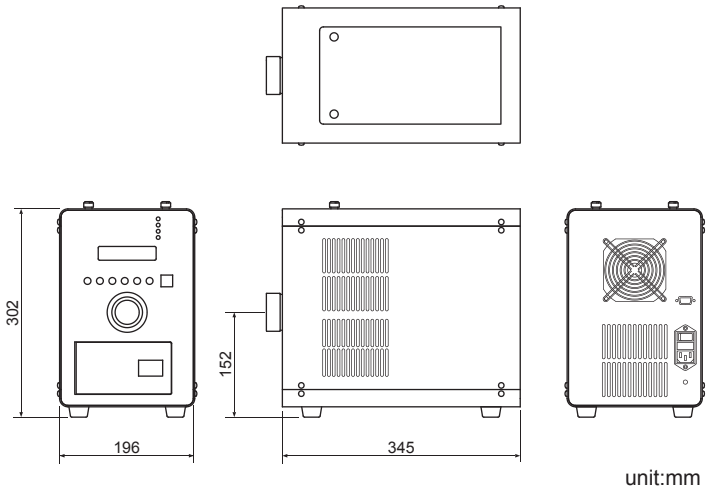
	Lamp	Mirror Module	Light guide fitting device	Spectral Output
MAX-303	OUV	UV	UV	235** - 385nm
		VIS	VIS	385 - 740nm
		IR*		750 - 1050nm
	UV	UV	UV	250 - 385nm
		VIS	VIS	385 - 740nm
		IR*		750 - 1050nm
	VIS	VIS	VIS	385 - 740nm
		IR*		750～1050nm

*Use IR filter **Design value

General Specifications

Model	MAX-303
Circuit method	Forward converter switching
Input voltage	AC100 - 240V 50/60Hz (Input range:100-240V)
Power consumption	Less than 530VA (100V/50Hz) Less than 520VA (240V/50Hz)
Lamp type	Xenon lamp 300W
Lamp voltage	14V(DC)
Lamp current	21A(DC)
Lamp life	500h *Average (When the light intensity has decreased by 50% from the initial value.)
Lamp maintenance	Free alignment(Cartridge type)
Cooling method	Forced cooling
Shutter	Pulsed motor drive 80msec
Exposure time set	0.5 - 99999.9sec
Mirror module	UV-type(250-385nm), VIS-type(385-740nm), IR-type(250-385nm)
Intensity adjustment	100 - 5(Transmittance) Continuously variable
Filter wheel	8 holes *25mm dia/ t=6mm filter is usable
Emitting method	With or without use of light guide
Controller	Built-in
Remote control	RS232C
Interlok	Xenon lamp problem, Top door is open, Cooling fan problem
Recommended environment	Temperature 10 - 35 deg C :Humidity 20 - 80%
Dimensions	196(W) x 345(D) x 302(H)mm
Weight	12.9kg

Dimensions



unit:mm

*We accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation.

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