

Xenon Light Source 300W MAX-302

Unlike any lasers, desired light spectrum within UV-NIR is easily adjusted through varieties of Asahi Optical filters

(Maximum of 8 filters can be mounted on the filter wheel)

Different from other UV spot curing systems, any spectrum outputs from the targetted UV region is obtainable while keeping the maximum transmittance and block unwanted light to NIR region

MAX-302 acomodates the proprietary mirror module unit in the system to eliminate serious problems of heat

CE marked

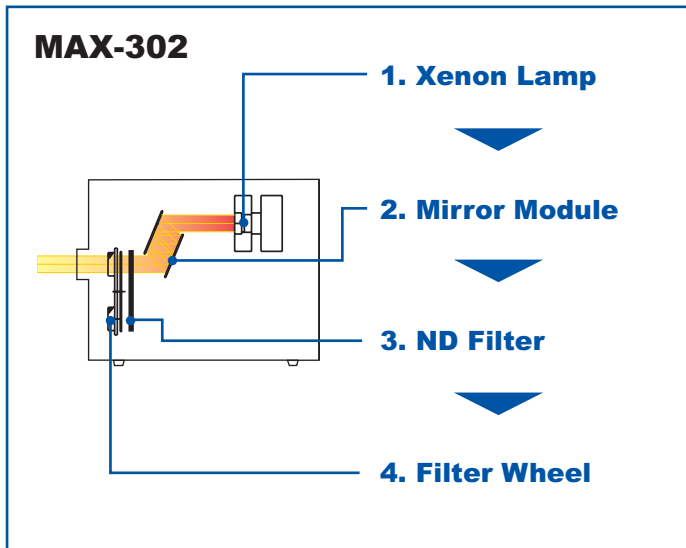


The MAX-302, fiber optic illuminator, is ideal as a heat free high power xenon light source for spectroscopy, microscopy, medical and industrial uses.

In many cases it is desirable to narrow or widen the output spectrum, our bandpass and steep edged filters enable even a little adjustment to fit your applications.

Featuring proprietary mirror module, the sophisticated optical unit delivers cool white light and block unwanted light energy. Some light sources reduce heat problems by use of single cold filter but our mirror module serves the best class cool illumination.

Features



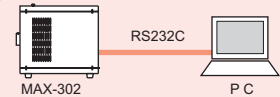
Panel Controls

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



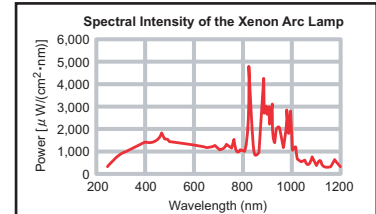
1. Exposure Time Set 0.5-999999.9sec
2. Shutter Activation open/close
3. Filter position
4. Light Intensity Adjustment

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



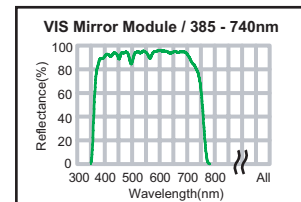
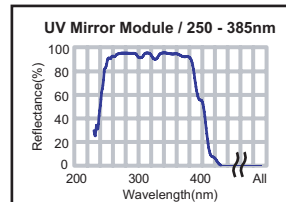
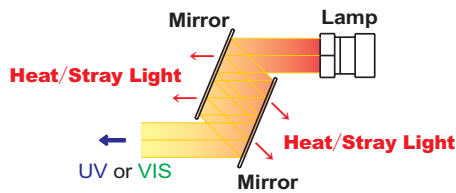
1. CERMAX Xenon Arc Lamp

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.



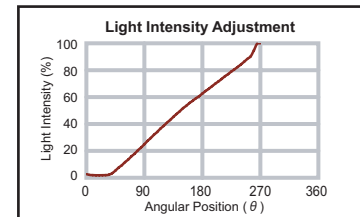
2. Mirror Module

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-302 offers 2 types of mirror modules, UV and VIS 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

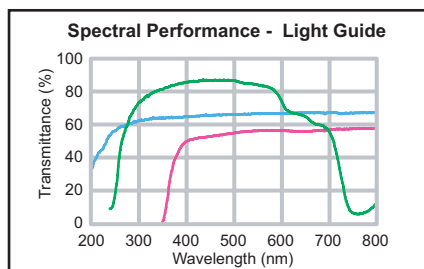
The filter wheel can hold up to the maximum of 8 filters (1 inch diameter). To customize spectrum output, wide varieties of optical filters, shortpass, longpass, and bandpass are available.



Options

Light Guide

The illuminating light from the MAX-302 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: 190 μm dia.
- Numerical Aperture: 0.2
- Operating Temp: <500 deg C

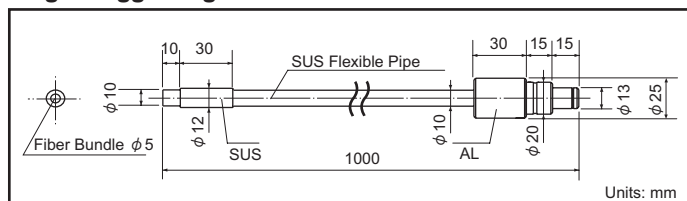
Liquid Guide

- Core Dia: 5 μm dia.
- Numerical Aperture: 0.587

Hybrid Guide

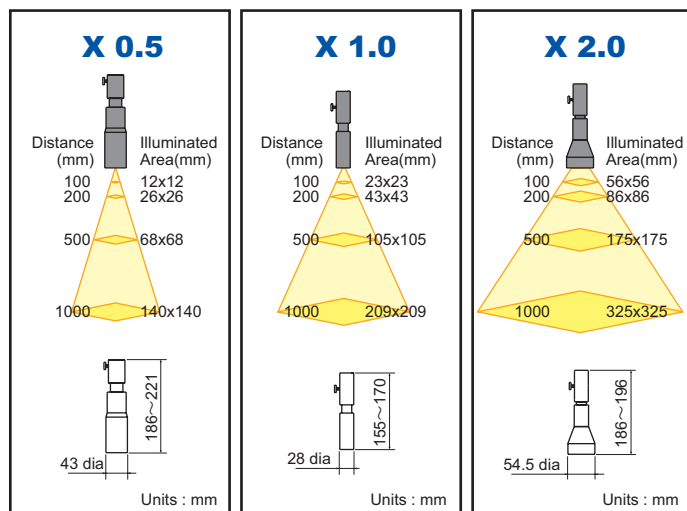
- Core Dia: 50 μm dia.
- Numerical Aperture: 0.57
- Operating Temp: <350 deg C

Single Legged Light Guide



Collimating Lens

Collimating lense 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.

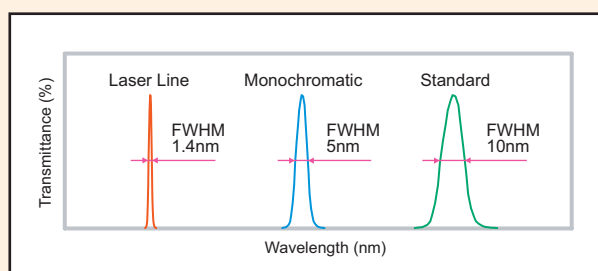


Optical Filters

Asahi Spectra produces varieties of precise optical filters to help modification of spectral output from the MAX-302. Along with the MAX-302 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-302. They allow users to tailor the spectral throuput of the system to suit wide variety of applications more precisely while eliminating unwanted energy.

Available Bandpass Filter Types

- Standard : 260-900nm / FWHM 10nm
- Monochromatic : 380-780nm / FWHM 5nm
- Laser Line : VIS / FWHM 1.4nm
- Wide : 420-740nm / FWHM Semi-Custom

Specifications

Includes

- Lamp x 1 *Chose UV or VIS
- Mirror Module x 1 *Chose 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

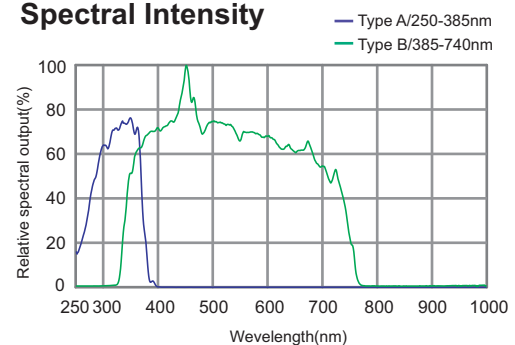


LAMP
Mirror Module

Obtainable Throughput Ranges

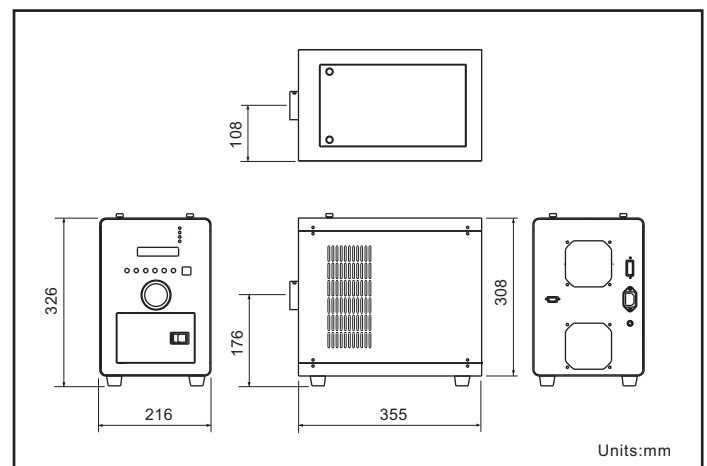
	LAMP	Mirror Module	Spectral output	Type
MAX-302	UV	UV	250 - 385nm	A
		VIS	385 - 740nm	B
	VIS	VIS	385 - 740nm	B

Spectral Intensity



General Specifications

- Model :MAX-302
 Circuit method :Forward converter switching
 Input voltage :AC90 - 240V 50/60Hz
 Power consumption :500VA
 Consumption current :6A(Average)
 Lamp type :Xenon lamp 300W
 Lamp voltage :14V(DC)
 Lamp current :21A(DC)
 Lamp life :1000h(Guaranteed 500h)
 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, VIS-type
 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
 Recommended environment :Temperature 10 - 40 deg C
 :Humidity 20 - 80%
 Dimensions :216(W) x 355(D) x 326(H)mm
 Weight :14kg



*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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