

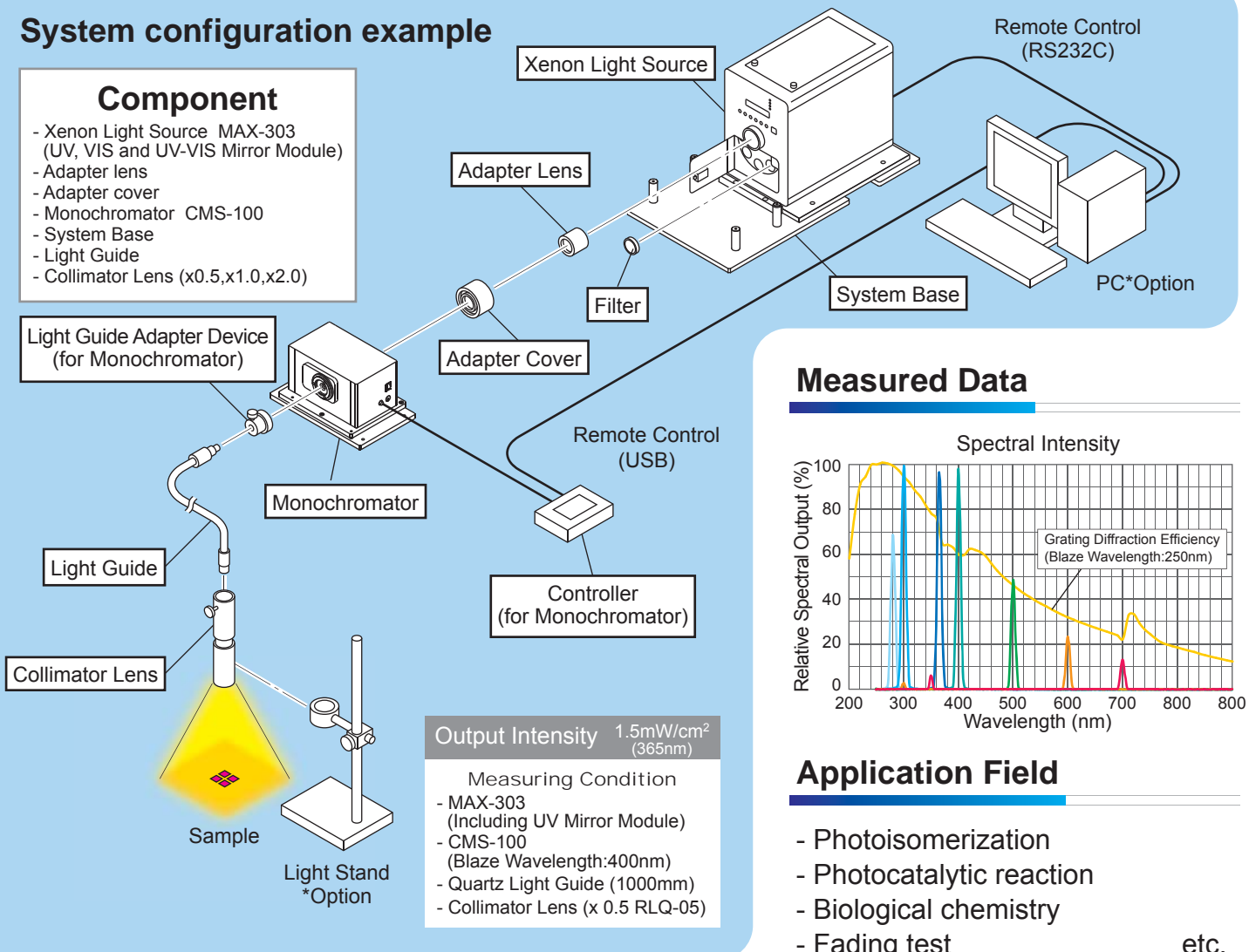
## MAX-303 + CMS-100 Xenon light source application Monochromatic Illuminator

Enabling to precisely control wavelength of output light.

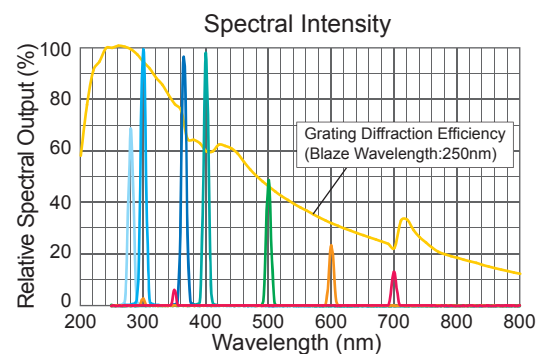
- Using xenon light source 300W
- Bright monochromator (F/2.8)
- Controlling wavelength by every 1nm from 220nm to 900nm.
- Monochromatic light (Resolution:2.6nm~)  
\*Depends on the grating and light source
- Continuous light control from 5 to 100 (Transmittance)
- Built in shutter
- Uniform illumination



### System configuration example



### Measured Data



### Application Field

- Photoisomerization
- Photocatalytic reaction
- Biological chemistry
- Fading test
- etc.

# Optional Accessories

## Monochromator

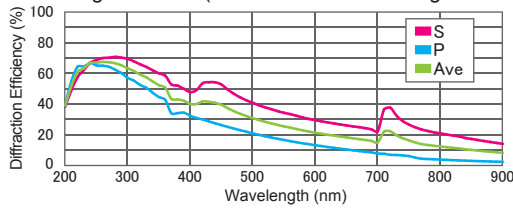


F-number	F/2.8
Reciprocal Linear Dispersion	8.3nm/mm (550nm)
Resolution	1: 2.6nm 2: 4.3nm 3: 8.6nm (Slit width switching)
Stray Light*	546.1 +/-10nm < 3.0 x 10 <sup>-4</sup> 546.1 +/-50nm < 4.5 x 10 <sup>-5</sup>
Slit Width	1: 0.3 x 3.0mm 2: 0.5 x 3.0mm 3: 1.0 x 3.0mm

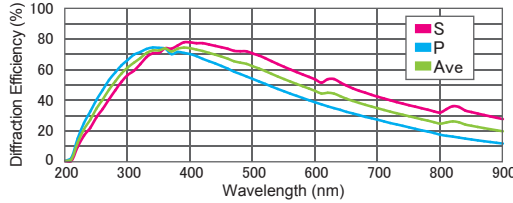
Condition : Mercury Line 546.1nm, Grating 1200g/mm, Blaze Wavelength 400nm

## Blaze Wavelength and Diffraction Efficiency

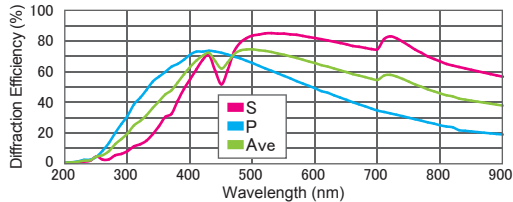
(1) Blaze Wavelength: 250nm (Recommended wavelength: 220 - 450nm)



(2) Blaze Wavelength: 400nm (Recommended wavelength: 270 - 650nm)



(3) Blaze Wavelength: 500nm (Recommended wavelength: 350 - 900nm)

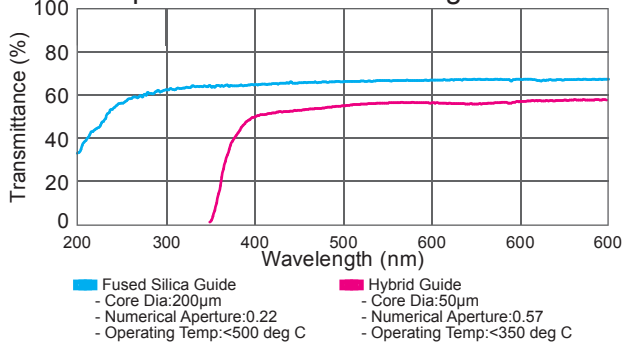


## Light Guide



The illuminating light from the MAX-303 is delivered to the point of use by the light guide efficiently. Dual branch light guide is available as well for your different needs.

### Spectral Performance - Light Guide



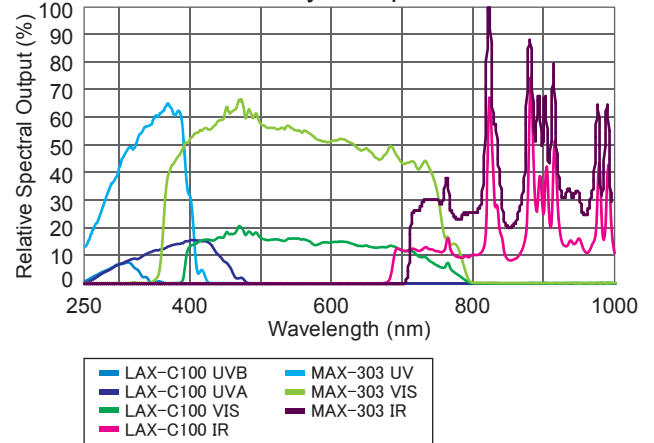
\*We accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation.

## Xenon Light Source



	Description	Mirror Module
100W	LAX-C100	UVB/UVA/VIS/IR
300W	MAX-303	UV/VIS/IR

### Intensity Comparison



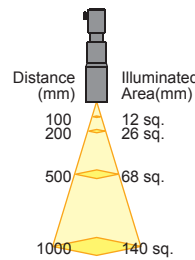
## Collimator Lens



Collimator 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.

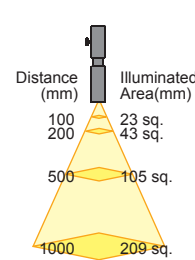
x 0.5 Type  
RLQ-05

Size: 43mm dia. x 210mm  
Material: Quartz



x 1.0 Type  
RLQ-1

Size: 28mm dia. x 177mm  
Material: Quartz



x 2.0 Type  
RLQ-2

Size: 55mm dia. x 206mm  
Material: Quartz

