

Xenon light application Monochromatic Illuminator

GMP

General Microtechnology & Photonics
Systems for Industry, Research, Telecom & Medicine

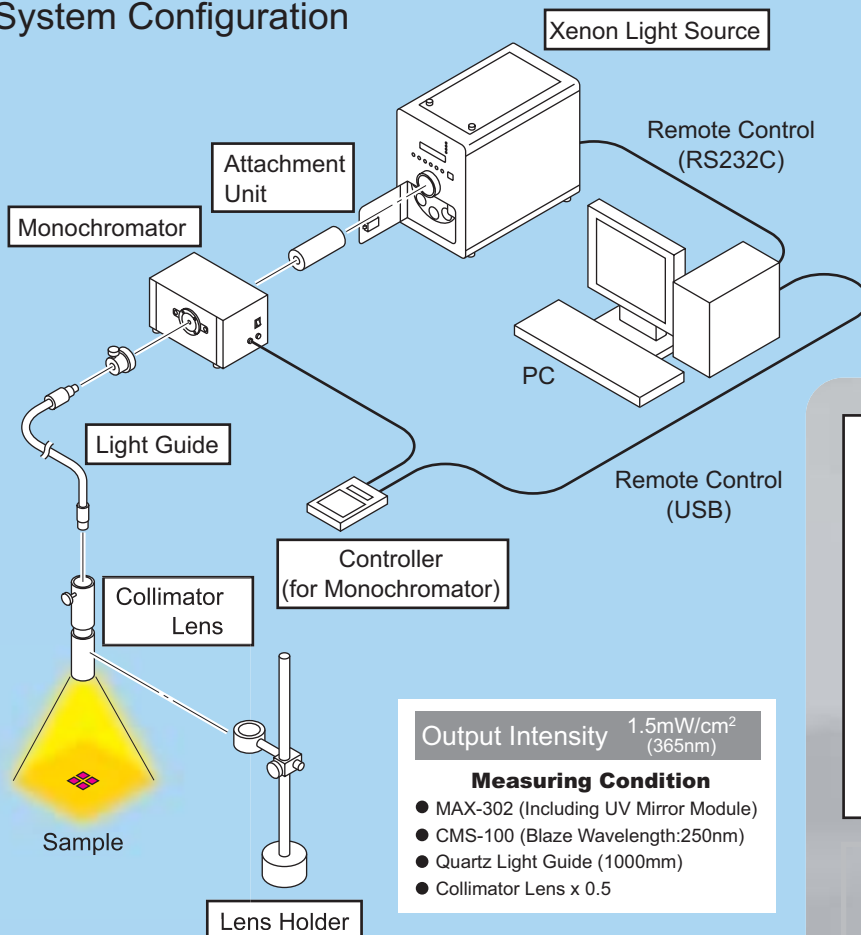
MAX-302 + CMS-100

Enabling to precisely control wavelengths of output light.

- Using xenon light source 300W
- Bright monochromator
- Controlling wavelengths by every 1nm from 220nm to 900nm

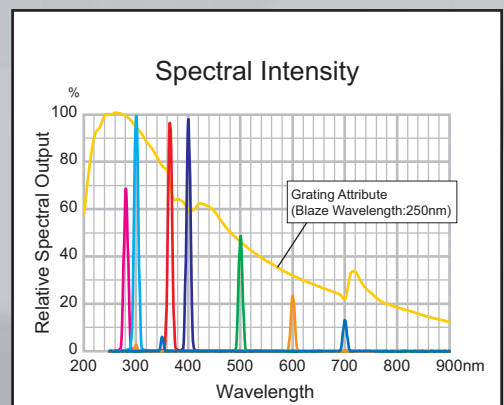


System Configuration



Component

- Xenon Light Source MAX-302 (UV and VIS Mirror Module)
- Monochromator CMS-100
- Controller (for Monochromator)
- Light Guide
- Collimator Lens



Application Field

- Photoisomerization
 - Photocatalytic reaction
 - Biological chemistry
- etc.

Monochromator

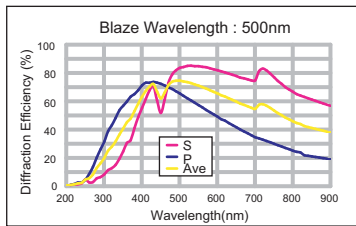
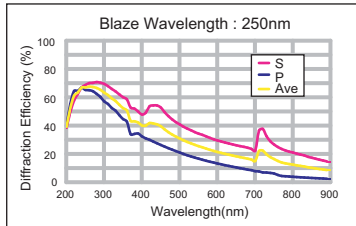
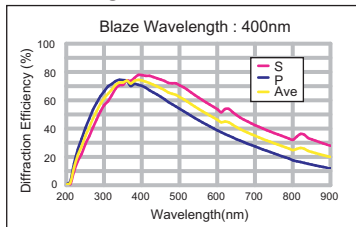
CMS-100



F-number	F/2.8
Reciprocal Linear Dispersion	8.3nm/mm (550nm)
Resolution	2.6nm*
Stray Light	546.1 +/-10nm 5×10^{-4} max 546.1 +/-50nm 5×10^{-5} max
Slit Width	3 kinds of width 1: 0.3 x 3.0mm 2: 0.5 x 3.0mm 3: 1.0 x 3.0mm

*Condition : Mercury Line 546.1nm, Slit Width 0.3mm, Grating Density 1200grooves/mm, Blaze Wavelength 400nm

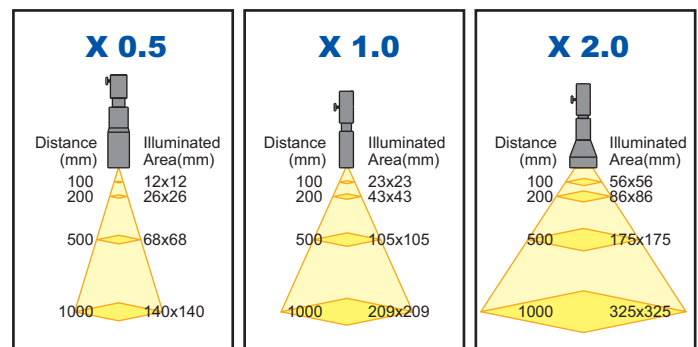
Blaze Wavelength and Diffraction Efficiency



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.



Xenon Light Source



	Description	Mirror Module
100W	LAX-Cute	UVB/UVA/VIS/IR
100W	LAX-102	UVB/UVA/VIS/IR
300W	MAX-302	UV/VIS

