

## MAX-303 Xenon light source application Photocatalytic Illuminator

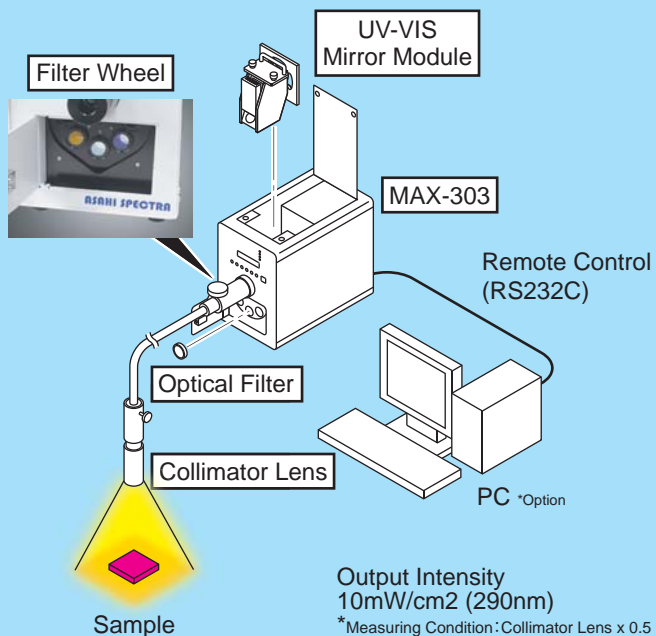
The powerful cold UV light excites and accelerates the photocatalytic reaction!

- Built-in mirror module effectively eliminates most of heat.
- Embedded filter wheel enables to select any desirable wavelength (UV - VIS).
- Continuous light control from 5 to 100 (Transmittance).
- Uniform illumination is available.
- Bright monochromatic light by our narrow bandpass filter.

This system can analyze the photocatalytic reaction precisely by illuminating monochromatic light with desirable wavelength. Due to its heat blocking design, the sample is prevented from thermal damage.



### System configuration example



#### Component

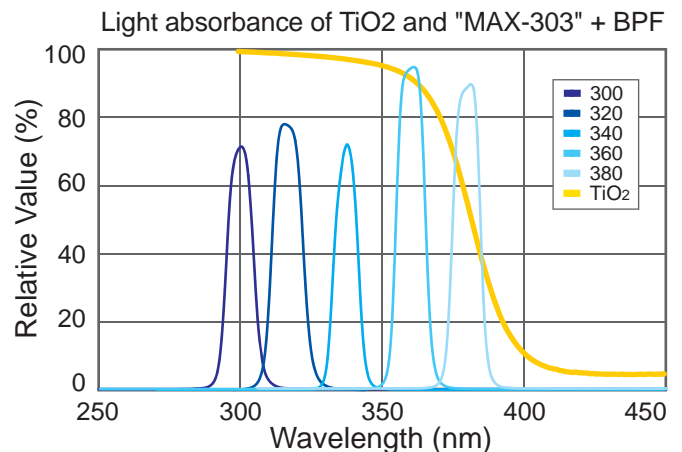
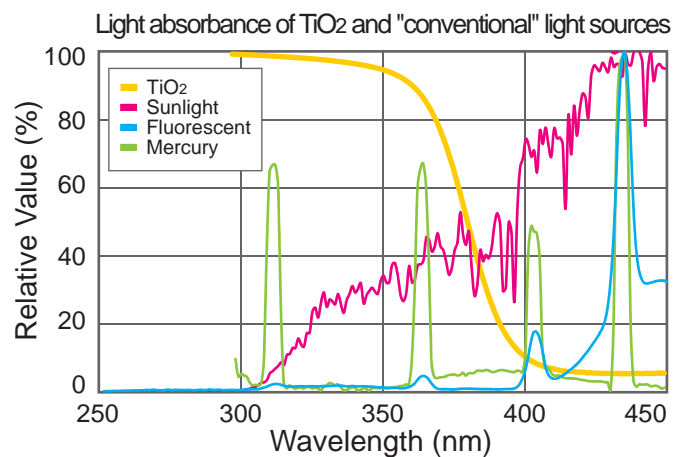
- Xenon light source MAX-303
- Light guide
- Collimator lens (x0.5, x1.0, x2.0)
- Mirror module (UV, VIS, UV-VIS)
- Narrow bandpass filter

#### Option

Power meter for photocatalyst



### Comparative Verification



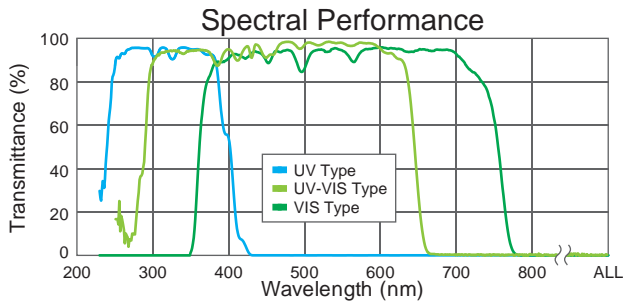
# Optional Accessories

## Mirror Module



Please use UV-type mirror module in case you use oxidized titanium in UV-activity, and please use VIS-type or UV-VIS-type mirror module in case you use VIS-activity.

Type	Wavelength
UV	250 - 385nm
VIS	385 - 740nm
UV-VIS	300 - 600nm



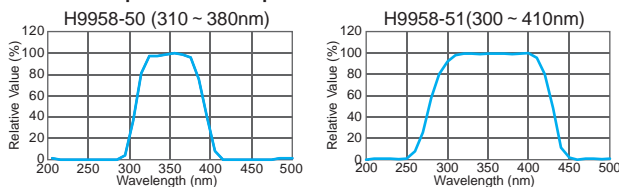
## Power meter for photocatalyst



The power meter is designed to measure absolute optical power of UV light (mW/cm<sup>2</sup>). It has a flat spectral response over a wide UV wavelength region (300 - 400nm).

Since the size is compact, it can be installed in the laboratory equipment.

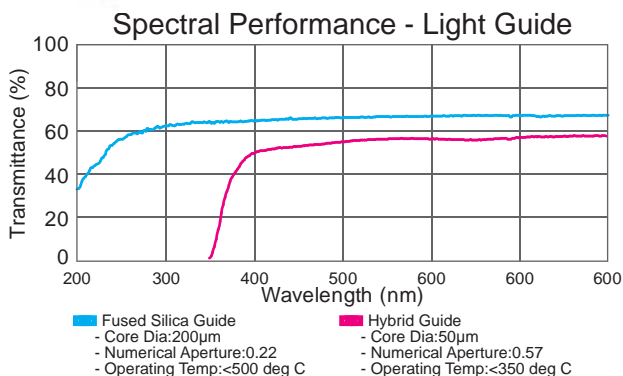
### Spectral response characteristics



## 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.

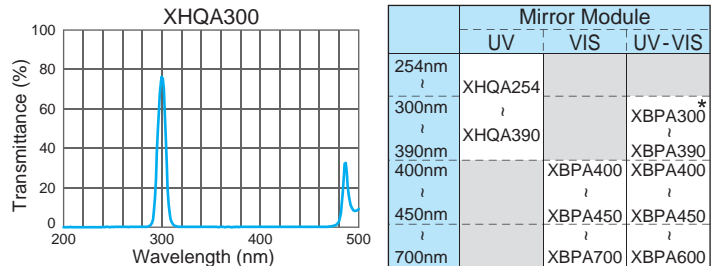


## Optical Filters

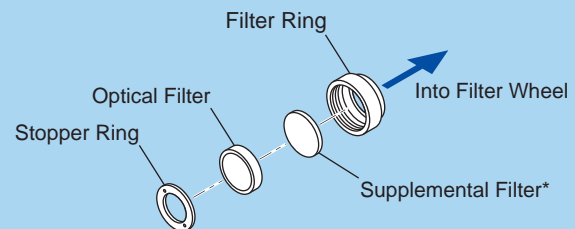


We prepare the optimized narrow bandpass filters for MAX-303. You can select monochromatic light with high transmission if the spectrum through Mirror Module is wide and insufficient. Especially it is useful for Photochromism, Photocatalyst and Chemical Analysis in UV range.

Common specifications	Size	Clear aperture	Thickness
	25mm dia.	22mm dia.	1.0 < 6.0mm



### How to mount a filter



\*If you use a XBPA300~XBPA390 filter, use with an additional filter to decrease the heat.

## Collimator Lens

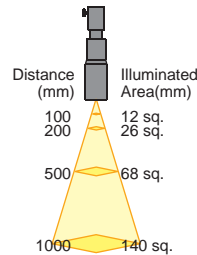


Collimator lens reduces the divergence of light from the light guide and provide uniform light output. It is suitable for directional backlighting which requires clear silhouette of an object.

**Uniformity is more than 90%.**

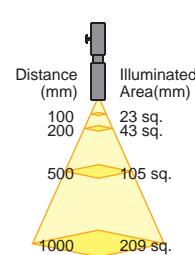
### x 0.5 Type RLO-05

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



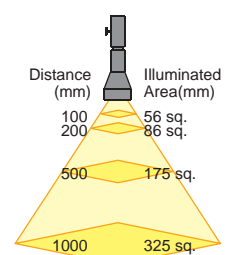
### x 1.0 Type RLO-1

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



### x 2.0 Type RLO-2

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



\*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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