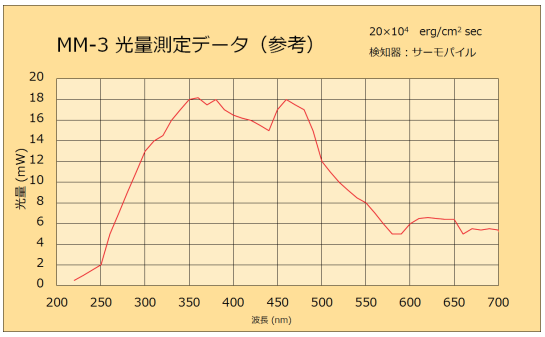
MM-3 Multi Waveleght Irradiation system

The Model MM-3 is capable of irradiating multiple samples simultaneously (for example, 11 pcs of rectangular cell 10mm x 10mm) in each wavelength band of 220-520nm and 400-700nm.
Not only the solid samples but also liquid samples can be irradiated. Since either the irradiation time by the timer or the count number irradiation by the energy counter can be arbitrarily set, the total irradiation time to each sample and the total energy amount to each sample can be known and the wavelength dependence test on the sample can be performed in a short time.

- It is possible to test deterioration dependence on wavelength for various samples (you can see at which wavelength the sample will deteriorate).
- The Model MM-3 can irradiate the sample in arbitrary wavelength range in the wavelength rage of 220 ~ 700 nm.

  (The wavelength band (width) that can be irradiated simultaneously is about 300 nm.)
- White light (light which is not spectrally separated) can also be taken out (option)
- It can irradiate any samples such as liquid samples (drinking water, eye drops, paint) and solid (cosmetics, tablets, film, plastic , rubber).

Data of Light Intensity



Lignt Intensity Data (reference)
Y axis : Light Intensity (mW) X axis : Wavelength (nm)
Detector : Thermopile

Irradiation Image

Approx.17mm

Approx. 160mm (2nm wavelength band/width per 1mm)

Speficiations

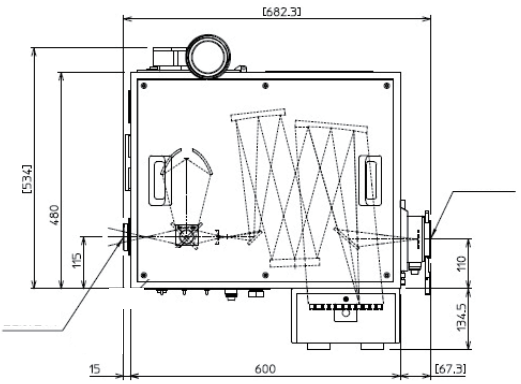
Irradiation WL range	220 ～ 700nm WL band simultaneously irradiated is approx. 300nm
When 310nm is specified	220 ～ 520nm
When 490nm is specified	400 ～ 700nm
Irradiation area	Approx. 160(W)×17(H)mm
Sample part 1	Irradiation WL band per sample (rectangular cell 10mm) : approx. 20nm WL
Sample part 2	Interval between samples : approx. 30nm (between cell holders :15mm)
WL display	Minimum display 1nm
Light source	Xe lamp 300W UV energy enhancing type reflector ari cooling
Diffraction grating	1200 lines/mm, 300nm blaze (MgF2 coating)
WL dispersion	Approx. 2nm/mm * The value varies depending on WL.
Entrance slit	Width 0 ~ 10mm(continuous variable) Height 10mm (fixed)
Exsit slit (option)	Width 0 ~ 10mm(continuous variable) Height 10mm (fixed)

*WL is an abbreviation for wavelength.

Standard configurations

- Multi wavelength irradiation system main unit
- Xenon lamp power supply
- Timer controller
- Glass filter set for 310nm
- 4Glass filter set for 490nm
- Sample mask (2,3,5 10mm)
- Quartz glass cell 10mm x 10mm (11 pcs)
- Quarts cell holder (for 11 pcs cells)
- Ozon exhaust hose (5m)
- Instruction Manual

Light path figure



Options

- Monochromatic light extraction mechanism
- White light extraction mechanism
- Power meter for irradiation energy
- Glass filter set (need to specify WL)
- Sample holder for various samples

Dimensions

- Main unit : approx.W630×D620×H370mm
- Power supply : approx. W175×D410×H225mm

- The dimensions are approximate size. The appearance and dimensions may be different depending on options etc.
- Specifications and appearance described are subject to change without notice.

< MM-3-1706025N-E >

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