

# The Model SM-5 High Power Monochromator

## Irradiation of high power monochromatic light



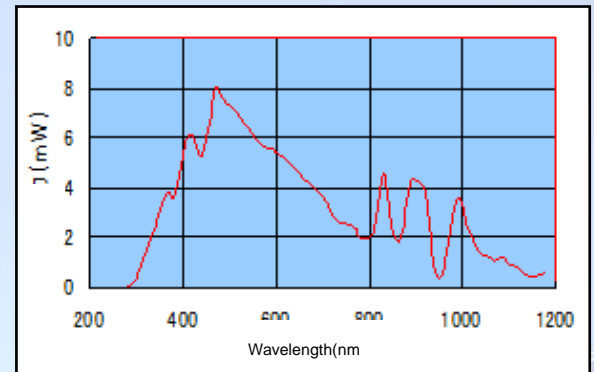
The Model SM-5 has been developed as a super high power monochromatic light source by using a unique Xenon lamp optical system, and high efficient monochromator, and a single optical fiber. The system as a variable wavelength excitation light source can introduce monochromatic light into the magnetic fields in ESR, NMR and etc. and also perform a spot irradiation on various samples.

### ■ Specifications

- Irradiation wavelength range: 250 -1200nm
- Light source: Xenon lamp 300W with an aspherical condensing mirror
- Wavelength purity: approx. 10nm or 20nm ( slit exchange mechanism)
- Irradiation Intensity: max 8m/Φ1.2mm ( around 460nm, initial value)
- Optical fiber: quartz, single-core, φ1.2mm, 2m

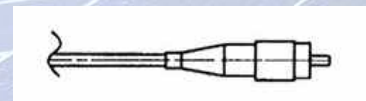
### ■ Option

- Monochromatic light intensity measurement: Si photo diode with a certificate
- Variable intensity: Rotating ND filter (various and continuous )
- Optical fiber: Fiber for the ESR cavity
- Holder: Rectangular cell holder



Irradiation intensity when using the optical fiber with Φ1.2mm (reference value))

FC type plug



Shape of tip of the optical fiber

The following options can be offered.

1. Increase intensity of the ultra violet light as strong as possible
2. Perform irradiation with constant energy and constant photon regardless of wavelength
3. Perform wavelength scanning by the GP-IB control
4. Perform irradiation using a variable frequency chopper

The specifications and appearance of the systems in this catalog are subject to change without prior notice.

No.WebFlyer-SM-5-1401YN13\_E



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