

OEM Compact Monochromator MF-34

The new OEM compact monochromator MF34 has been designed around an aberration-corrected, type IV concave holographic grating.

The diffraction grating plays a triple role:

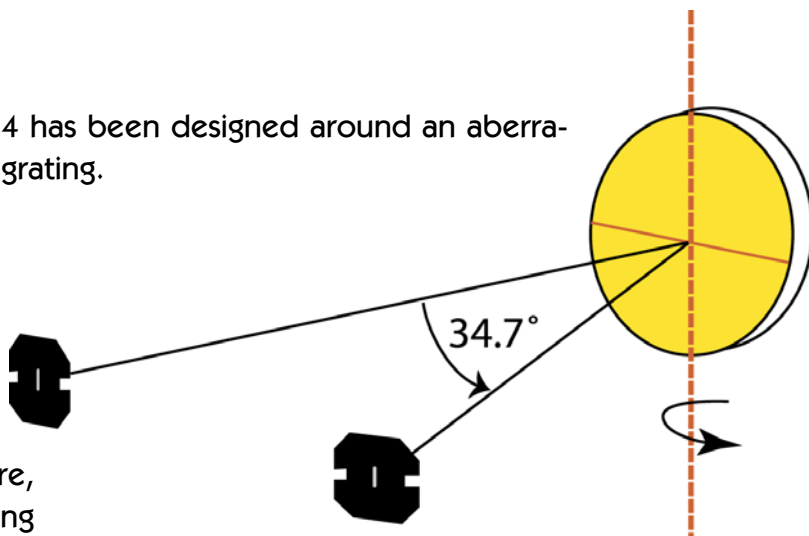
- ☐ Collimator
- ☐ Dispersing
- ☐ Focusing

With a 100 mm focal length and a F/2.6 aperture, the new MF34 is equipped with a rapid scanning direct drive system; the wavelength drive is directly coupled to a stepper motor.



4 models are available,
from the UV range to the IR range.

The MF34 is made specifically for volume orders. We can offer custom modifications to volume customers.



- ☐ Concave grating.
- ☐ Focal length : 100 mm.
- ☐ Deviation : 34.7°.
- ☐ Aperture : F/#:2.6.
- ☐ Dispersion : 7 nm/mm (with 1200 g/mm).

Different models of slits are proposed depending on the resolution requested by the customer. The basic model is supplied with a pair of slits of 0.5 or 1 mm width.

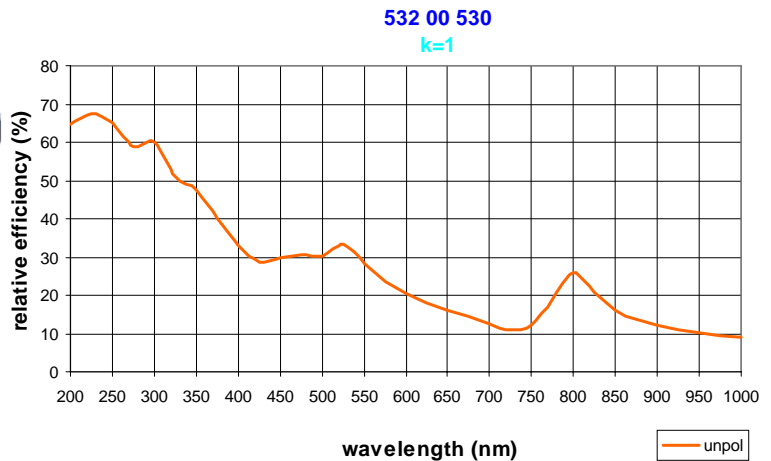
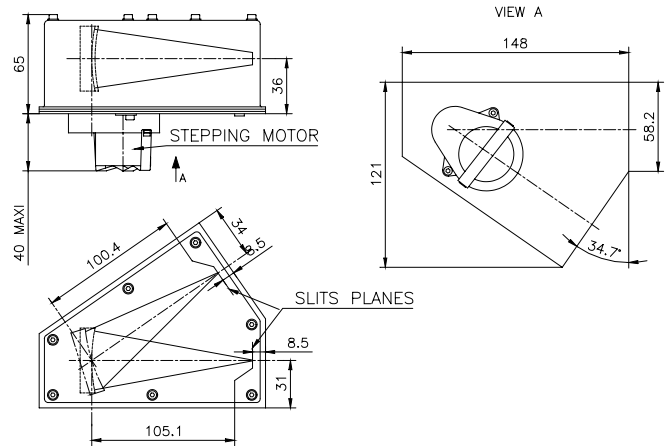
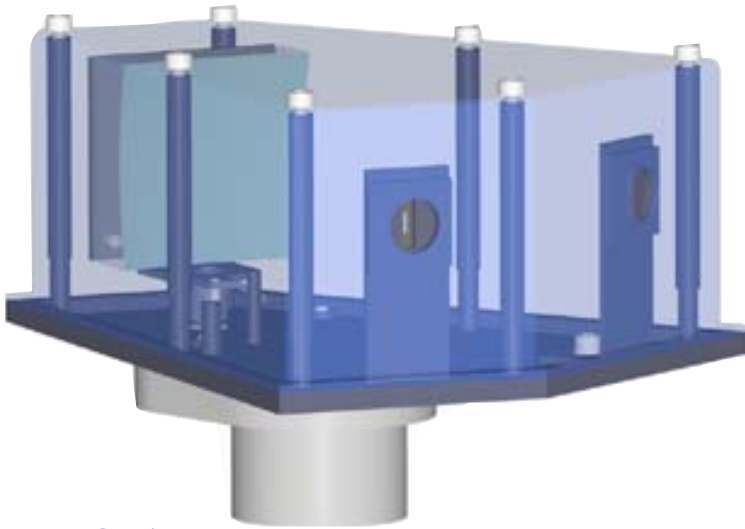
Different models of stepper motors are proposed depending on the resolution requested by the customer.

In the basic model, the MF61 is equipped with a 4 phases stepper motor with 12000 step/360°. The spectral range can be scanned in less than 1 sec.

Gratings & OEM Division

Performances:

- ☐ Resolution: <1 nm FWHM (with 100 μm *4 mm slits)
 - ☐ Wavelength accuracy: ± 1.5 nm with a fitting
 - ☐ Step repeatability: ± 0.2 nm (with 1200 g/mm)
- More sophisticated motors can yield better wavelength accuracy and reproducibility.



Options:

- ☐ SMA connectors (instead of the pair of slits)
- ☐ 2 phases stepper motor
- ☐ Other on request

Applications:

Spectral efficiency curve of the UV model

	UV	UV-VIS	VIS-NIR	NIR
Spectral Range (nm)	190 - 800	250 - 850	350 - 950	1100 - 2400
Ref.	MF34-UV	MF34-UVIS	MF34-VNIR	MF34-NIR

The main applications are fluorescence, medical diagnostics, spectrophotometry, environment, clinical chemistry, semiconductor characterization..

We are pleased to work with you to find a suitable solution to your requirements.

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