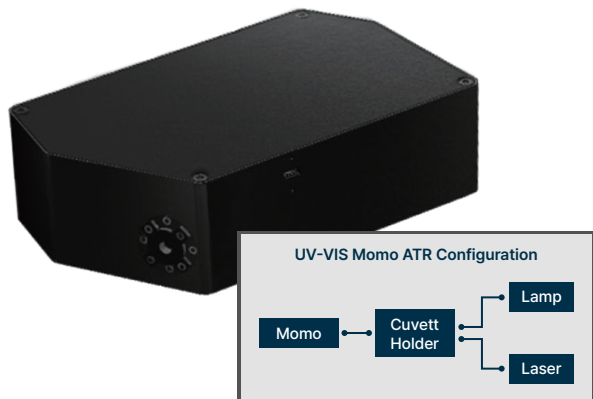


# Momo | Spectrometer



\*Compact Spectrometers with Versatile Performance Covering UV, Visible and NIR Wavelengths Are Available for Multiple Applications in Research, OEM and Process Solutions.

## Key Features

- Optimized Performance with High Speed Acquisition and Great SNR
- Automated Manufacturing Techniques for Repeatability
- Versatility for Complex Applications
- Available in 10, 25, 50, 100 or 200 um Wide Slits

## Application

- Application Services
- Lab Services
- Semiconductor
- Senvironmental
- Industrial
- Spectroscopy
- Phtoluminescence
- Fluorescence

## Specification

### Spectrometer

Spectrometer Design	Asymmetric Crossed Czerny-turner
Focal Length	F/5, 125 mm
Wavelength Range	200 ~ 1100 nm
Entrance Slit	Slit 100 um Slits (Standard)
Readout Noise (Single Dark Spectrum)	0.4 mV / rms
Resolution	0.43 nm @ 1800 Groove @ 100 um Slit Width

### Detector

Sensor	HAMAMATSU S11639-01 CMOS
Pixel Number	2048 * 1
Pixel Size	14 um * 200 um

## Grating

### Resolution Table (FWHM in nm)

	Grating Groove (line / mm)	Spectral Range (nm)	Resolution (nm) @ 50 um Slit Width	Resolution (nm) @ 100 um Slit Width
1	150	1440	2.76	5.1
2	300	720	1.38	2.58
3	450	480	0.92	1.72
4	600	360	0.69	1.29
5	1000	216	0.414	0.774
6	1200	180	0.345	0.645
7	1800	120	0.23	0.43
8	2400	90	0.17	0.34

### Grating Selection Table

	Order Code MOMO-xxx	Usable Range (nm)	Grating Groove (line / mm)	Blaze (nm)
1	UV	200 ~ 290	2400	UV
2	UV / VIS	200 ~ 560	600	300
3	UV / VIS / NIR	200 ~ 1100	150	300
4	VIS / NIR	380 ~ 1100	300	500
5	VIS-1	400 ~ 760	600	500
6	VIS-2	400 ~ 580	1200	500
7	NIR	740 ~ 1100	600	750