



Refrigerating Spectrometer



--Metal

Features:

- High signal-to-noise ratio: 1000:1
- High consistency in measurement results
- High resolution
- Primary refrigeration
- Back-illuminated area array CCD detector
- High precision various
- Low temperature drift characteristics
- High UV response
- humanized software design

Applications:

- Photochemistry
- Integrated optics
- Spectroscopy
- Medicine & Biology



Specification

Detector	
Detector Model	Hamamatsu cooled area array CCD sensor
Detector Wavelength Range (nm)	200-1100
Pixels	2048 pixels
Pixel size	14um*14um
Spectrometer	
Dimension(mm)	192*109*61.2
Optical design	F/4, symmetrically crossed Czerny-Turner
Optical resolution	Please refer to the table below
Electronics	
Integration time	17ms-60s
Signal-to-noise ratio	1000:1
AD	16
Connector	USB2.0
Power consumption	450mA@5V DC
Cooling	3A@5V DC
Cooling temperature	Below room temperature 20℃
Support system	WinXP/Win7/Win10
Weight (g)	1790

Wavelength (nm)	Entrance aperture (μm)				
	10	25	50	100	200
200-1100	0.87	1.09	1.84	3.51	6.72
350-1100	0.87	1.09	1.84	3.51	6.72
400-837	0.44	0.53	0.89	1.70	3.26
405-461	0.12	0.16	0.26	0.50	0.97
532-700	0.20	0.26	0.44	0.83	1.60
780-1100	0.44	0.53	0.89	1.70	3.26

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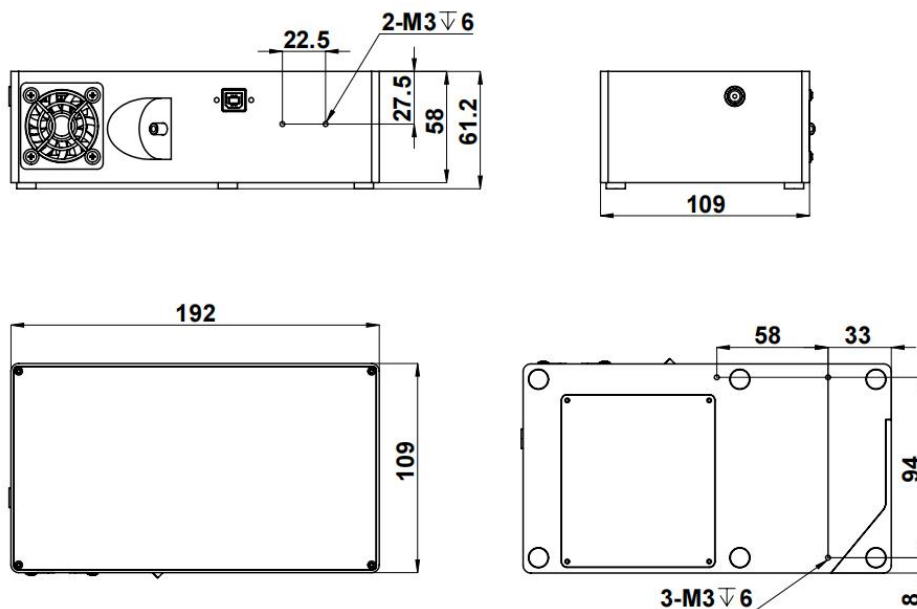
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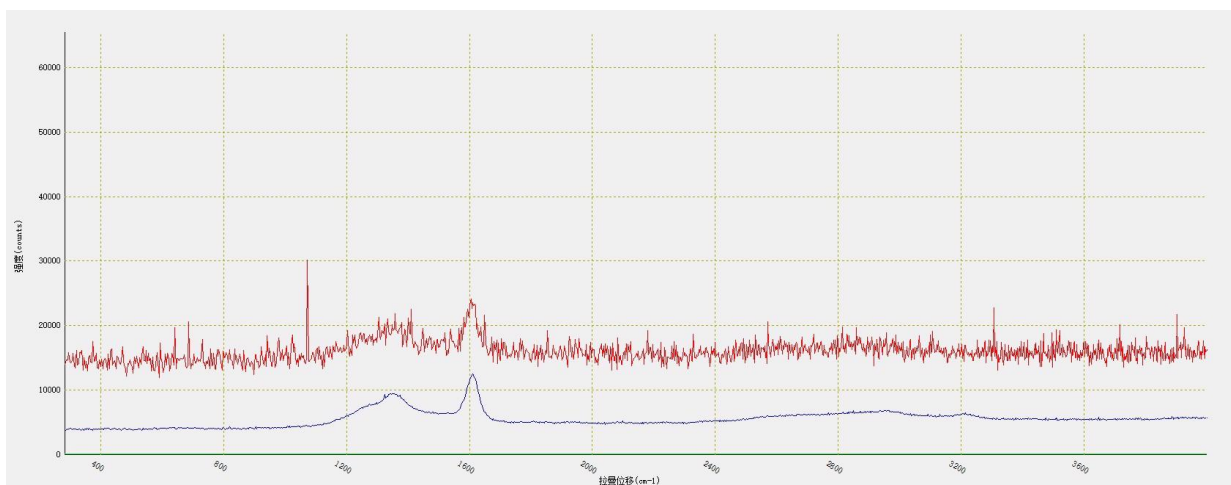
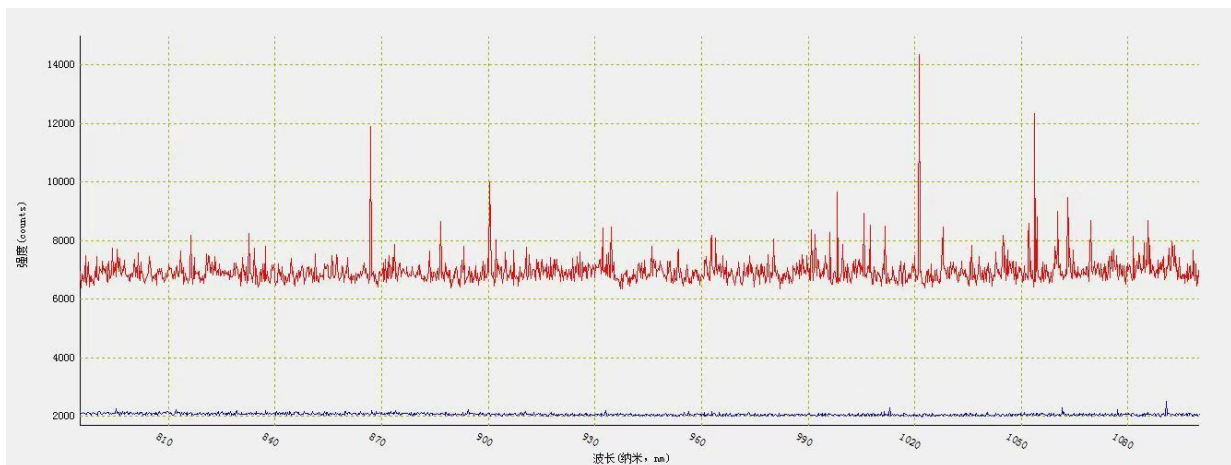
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Dimension



Test data (Blue: Metal spectrometer & Red: other spectrometer)



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