

Fiber Optic Spectrometer



Wood

Features:

- Selectable near-infrared wavelength bands
- Secondary cooling
- InGaAs detector
- Low noise
- High signal-to-noise ratio (SNR)
- Low temperature drift characteristic

SPECIFICATIONS

Spectral Characteristics	
Wavelength range	1000-2500nm
Optical resolution	15nm (Optional, customizable based on requirements)
Higher Order Diffraction:	With higher-order diffraction elimination filter
Detector	
Detector Model	InGaAs Detector
Wavelength range	1000-2500nm
Pixels	256pixels
Pixel Size	100*100um
High Sensitivity	10.5uV/e-
Maximum Speed	500K
Optical Platform	
Design	F/4, Symmetrical crossed Czerny-Turner
Focal Length	100mm;110mm
Entrance aperture	30um(optional, can be customized)
Fiber Optic	NIR SMA905 0.22NA
Electronic Characteristics	
Signal-to-Noise Ratio	1200:1
Corrected linearity	>99.8%
Integration Time	0.1ms-1400ms
Dynamic Range	900000
AD	16 bit
Data transfer speed	12ms+ Integration time
Communication connector	USB 2.0
Connector	16PIN Expansion Port; With external trigger function
Power Consumption	450mA@5V DC
Cooling	4A@5V DC
Other Characteristics	
Supported OS	Windows
Dimensions	182mm*110mm*50mm
Weight	1500g
Mounting	Standard mounting holes in 3 orientations
Warranty Period	1 year