

Spectrometer : SP303

/ General Specifications

- Scientific-grade High Performance
- Extremely Low Dark Noise and Stray Light
- Wide dynamic range and high signal to noise ratio
- High Ultra-Violet Quantum Efficiency
- Flexible optical input direct to slit or via fiber
- Designed from the ground up for a wide range of applications
- High speed data acquisition
- Standard design allows up to 200-1050nm range
- Auto shutter for dark condition

SLI-SP-303



/ General Specifications

Detectors	Hamamatsu S7031-1006 (UV Enhanced Coated) <ul style="list-style-type: none"> ▶ Number of Pixels : 1024 x 58 ▶ Sensing Pixel Size : 24 μm X 24 μm ▶ Pixel well depth : 300V Ke-(Vertical) 660 Ke-(Horizontal) ▶ Quantum efficiency : >90% @650nm, 65% @250nm ▶ Sensitivity : 0.065 counts ▶ Cooling : One-stage TE-cooled
Dark Noise RMS	< 2 RMS counts in 16-bit @ 35 ms integration time
Signal to Noise Ratio	1000 : 1
Fiber Coupler	SMA905 or FC standard
Wavelength Range	Full Range : 200 ~ 1050 nm UV Range : 200 ~ 450 nm VIS Range : 380 ~ 760 nm NIR Range : 550 ~ 1050 nm
Order Sorting Filter	Longpass filter or linear variable filter installed per wavelength coverage
Optical Resolution	0.3 ~ 7 nm FWHM
Stray Light Level	< 0.01% @632 nm (< 0.05% AVG)
Computer Interface	USB 1.1/2.0 compatible
Min. Exposure Time	7 ms
Trigger Mode	Free Run S/W Trigger H/W Trigger
Operating System	Window® XP / VISTA / Win7(32 / 64bit) / Win8.1 (32 / 64bit)
SDK Support	Visual C++ / Visual Basic / LabVIEW
Dimensions / Weight	173mm X 120mm X 79.8mm / 2.0Kg