Light Done Right!

Spectrometer : SP642

Features

- Scientific-grade high performance with low cost
- Low dark noise and stray light
- Good 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 200-1050 nm range
- Auto shutter for dark condition

SLI-SP-642

Specifications

Detectors	Hamamatsu S10420-1106(Non TE-Cooled Backthinned FFT CCD) ▶ Number of Pixels : 2048 X 64 ▶ Sensing Pixel Size : 14 μm X 14 μm ▶ Pixel well depth : 200 Ke- ▶ Quantum efficiency : >90% @650 nm, 65% @250 nm
Dark Noise RMS	< 7 RMS counts @ 35 msec
Signal to Noise Ratio	450 : 1
Fiber Coupler	SMA905 of 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	0.25 ~ 7 nm FWHM
Stray Light Level	< 0.01% @632 nm (< 0.5% AVG)
Computer Interface	USB 1.1/2.0 compatible
Min. Exposure Time	7 msec
Trigger Mode	Free Run S/W Trigger H/W Trigger
Operationg System	Window® XP / VISTA / Win7(32 / 64bit) / Win8.1 (32 / 64bit)
SDK Support	Visual C++ / Visual Basic / LabVIEW
Dimensions / Weight	152 mm X 100 mm X 63.6 mm / 1.2 Kg

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