

Avantes AvaSpec UV/VIS/NIR CMOS Spectrometer 200-1100nm



Avantes CMOS Spectrometer



Stock **#13-837** [CONTACT US](#)

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C\$7,280.00

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Operating Temperature (°C): 0 to +55
Weight (lbs): 2.5
Type of Sensor:

CMOS 2048 Pixel Linear Array
Stray Light (%) : <1
Spectrograph f/# : 7.5
Software : AvaSoft-Full
Wavelength Range (nm) : 200 - 1100
Signal to Noise S/N Ratio : 300:1
Dimensions (mm) : 177 x 127 x 44.5
Integration Time : 30µs - 59s
Model Number : AvaSpec-ULS2048CL-EVO-RS-UA
Note : 0.22 NA fiber patch cord is recommended, sold separately.
Computer Interface : USB 3.0: 5Gbps Gigabit Ethernet: 1Gbps
Operating System : Windows 7, 8, 8.1, 10 (32/64 Bits)
Pixel Size, H x V (µm) : 14 x 200
Digitizer : 16-Bit or 65,535:1 @ 6 MHz
Input Port Termination : SMA905
Slit Height (µm) : 1000
Grating : Ruled Diffraction Grating: 300 Grooves/mm, Blazed @ 300nm
Optical Bench : Crossed Czerny-Turner
Dynamic Range : 4000
Power Input : USB 3.0: 5V @ 500mA
Digital I/O : HD-26 connector, 2 Analog In, 2 Analog Out, 13 Digital Bidirectional, Trigger, Synchronization, Strobe, Laser
Data Transfer Speed : USB 3.0: 0.38 ms/scan Ethernet: 1.0 ms/scan
Slit Width and Spectral Resolution : 25µm: 1.4nm 50µm: 2.5nm 100µm: 4.8nm 200µm: 9.2nm
Thermal Drift : ±0.1 Pixel/°C
UV Quantum Efficiency (%) : >60 @ 200nm
Peak Quantum Efficiency (%) : 80 @ 700nm
Noise @ 25°C (Counts RMS) : Readout: 13.1 Dark: 16
Trigger Delay (µs) : 0.9
Jitter (ns) : 20
Operating Relative Humidity : 10 - 90% non-condensing

Regulatory Compliance

RoHS : Compliant
Certificate of Conformance : View