

Avantes AvaSpec UV/VIS/NIR BT-CCD Spectrometer with Irradiance Calibration Package



Avantes Spectrometers with Irradiance Calibration Package



Stock **#13-836** [CONTACT US](#)

⊖ 1 ⊕

C\$11,480.00

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Operating Temperature (°C): 0 to +55
Weight (lbs): 3.1
Type of Sensor:

Back-Thinned CCD 2048 Pixel Linear Array
Stray Light (%) : <0.5
Spectrograph f/# : 7.5
Software : AvaSoft-Full and AvaSoft-IRRAD
Spectral Irradiance Sensitivity (1μW/cm²/nm) : 460,000
Wavelength Range (nm) : 200 - 1160
Signal to Noise S/N Ratio : 525:1
Dimensions (mm) : 175 x 127 x 44.5
Integration Time : 2μs - 20s
Model Number : AvaSpec-ULS2048XL-EVO-RS-UA-IRRAD
Note : 0.22 NA fiber patch cord is recommended, sold separately. Irradiance Calibration Package includes a fiber coupled transmissive PTFE near Cosine Corrector with FC/PC keyed slit plate and add-on software module.
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 500
Digitizer : 16-Bit or 65,535:1 @ 1 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 : 13700
Power Input : USB 3.0: 5V @ 700mA
Digital I/O : HD-26 connector; 2 Analog In, 2 Analog Out, 3 Digital In, 12 Digital Out, Trigger, Synchronization
Data Transfer Speed : USB 3.0: 2.44 ms/scan
Slit Width and Spectral Resolution : 25μm: 1.5nm 50μm: 2.5nm 100μm: 4.8nm 200μm: 9.2nm Irradiance: 100μm: 4.8nm
Thermal Drift : ±0.06 Pixel/°C
UV Quantum Efficiency (%) : >60 @ 200nm
Peak Quantum Efficiency (%) : >75 @ 450 - 700nm
Noise @ 25°C (Counts RMS) : Readout: 9.8 Dark: 4.5
Trigger Delay (μs) : 0.28
Jitter (ns) : 21
Operating Relative Humidity : 10 - 90% non-condensing
Cosine Corrector Fiber Length (m) : 1
Cosine Corrector Fiber Core Size Diameter (μm) : 200

Cosine Corrector Material: PTFE
Fiber Grade: Broadband
Irradiance Calibration Range (nm): 350 - 1100
Fiber and Slit Plate Termination: FC/PC keyed
NIST Certification: Yes

Regulatory Compliance

RoHS: Compliant
Certificate of Conformance: View
