

Avantes AvaSpec VIS CMOS Spectrometer with Irradiance Calibration Package



Avantes Spectrometers with Irradiance Calibration Package



Stock **#13-840** [CONTACT US](#)

- 1 +

C\$8,680.00

ADD TO CART

Qty 1+

C\$8,680.00

Qty 2+

C\$8,232.00

Volume Pricing

[Request Quote](#)

Get Product Downloads

Operating Temperature (°C):
0 to +55

Weight (lbs):
3

Type of Sensor:

CMOS 2048 Pixel Linear Array
Stray Light (%) : <1
Spectrograph f/# : 7.5
Software : AvaSoft-Full and AvaSoft-IRRAD
Spectral Irradiance Sensitivity (1µW/cm²/nm) : 375,000
Wavelength Range (nm) : 360 - 880
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-BB-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 200
Digitizer : 16-Bit or 65,535:1 @ 6 MHz
Input Port Termination : SMA905
Slit Height (µm) : 1000
Grating : Ruled Diffraction Grating: 600 Grooves/mm, Blazed @ 400nm
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: 0.7nm 50µm: 1.2nm 100µm: 2.4nm 200µm: 4.6nm Irradiance: 100µm: 4.8nm
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
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): 360 - 880
Fiber and Slit Plate Termination: FC/PC keyed
NIST Certification: Yes

Regulatory Compliance

RoHS: Compliant
Certificate of Conformance: View