

AvaSpec-Mini: Small, yet powerful

Looking for a very small spectrometer with a resolution of up to 0.2 nm? Then the AvaSpec-Mini is an ideal choice. It's only the size of a deck of cards, yet delivers a dynamic range of 2000:1, stray-light levels lower than 0.17% and weighs only 155 grams. Easy to take anywhere you like.

The AvaSpec-Mini finds its way into many areas of research, such as light analysis, chemical research and Raman spectroscopy. Or use it as a tiny OEM-spectrometer in your application. The possibilities are endless.

Of course, the AvaSpec-Mini works seamlessly with Avantes spectroscopy software and the Windows and Linux libraries.



Technical data

Optical Bench	Symmetrical Czerny-Turner, 75 mm focal length
Wavelength range	220-400 nm (UV) 350-880 nm (VIS) 750-940 nm (NIR)
Resolution	0.2 nm (UV) 0.5 nm (VIS) 0.3 nm (NIR)
Entrance slit	20 µm (other slit sizes available on request)
Stray-light	<0.17%
Sensitivity	34,000 counts/µW per ms integration time
Detector	CCD linear array, 3648 pixels (UV and VIS versions are coated for enhanced UV detection)
Signal/Noise	350:1
AD converter	16-bit, 15 MHz
Integration time	100µs – 10 minutes
Interface	USB 2.0
Data transfer speed	70 ms/scan
I/O	4 configurable I/O channels
Dimensions, weight	90 x 68 x 20 mm, 155 grams
Power supply	Default USB power, 250 mA

Ordering Information

AvaSpec-Mini-UV	• Mini Fiber-optic Spectrometer configured for 220-400 nm range, 75 mm focal length, 3648 pixel CCD detector, USB2 powered interface
AvaSpec-Mini-VIS	• As AvaSpec-Mini-UV, configured for 350-880 nm range
AvaSpec-Mini-NIR	• As AvaSpec-Mini-UV, configured for 750-940 nm range
IO-Adapter	• I/O adapter for AvaSpec-Mini and -Micro