

# OL 770UV/VIS and OL 770VIS/NIR Multi-Channel Spectroradiometer Specifications

## OL 770UV/VIS Specifications

Wavelength Range (standard)	200 to 780 nm
Wavelength Accuracy	± 0.75 nm
Optical Bandwidth (w/ 100 micron slit)	3.5 nm
Spectral Resolution	0.6 nm
Slits (user interchangeable)	100 micron (standard); 50 micron & 200 micron (optional)
Optical Focal Length	140 mm
Optical Input	Fiber optic
Optical Aperture	f/2
Operating Temperature	0 to 40°C
Operating Humidity	0 to 90% (non-condensing)
Detector Technology	TE-cooled, back-thinned, 2-dimensional CCD array
Detector Cooling Temperature	-10°C
Quantum Efficiency	> 90% at 650 nm
Chromaticity Accuracy	± 0.002 x,y
Chromaticity Repeatability (temperature stabilized blue LED)	± 0.00015 x. ± 0.0002 y
Stray Light (tungsten source)	< 2.5 E <sup>-4</sup> (> 300 nm)
Integration Time	20 ms – 60 s
A/D Resolution	16 bits
A/D Rate	250 kHz
Power Input	115/230 Vac
Interface	USB, RS-232
Dimensions	W: 7 ¼" (18.4 cm) X H: 13 ¼" (33.6 cm) X D: 13" (33.0 cm)
Weight	22.5 lbs. (10.2 kg)

*OL 770UV/VIS and OL 770VIS/NIR Multi-Channel Spectroradiometer Specifications*

<b>OL 770VIS/NIR Specifications</b>	
Wavelength Range (standard)	380 to 1100 nm
Wavelength Accuracy	1.0 nm
Optical Bandwidth (w/ 100 micron slit)	5.0 nm
Spectral Resolution	± 0.75 nm
Slits (user interchangeable)	100 micron (standard); 50 micron & 200 micron (optional)
Optical Focal Length	140 mm
Optical Input	Fiber optic
Optical Aperture	f/2
Operating Temperature	0 to 40°C
Operating Humidity	0 to 90% (non-condensing)
Detector Technology	TE-cooled, back-thinned, 2-dimensional CCD array
Detector Cooling Temperature	-10°C
Quantum Efficiency	> 90% at 650 nm
Chromaticity Accuracy	± 0.002 x,y
Chromaticity Repeatability (temperature stabilized blue LED)	± 0.00015 x, ± 0.0002 y
Stray Light (tungsten source)	< 2.5 E <sup>-4</sup>
Integration Time	20 ms – 60 s
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