

# OL 770UV/VIS AND OL 770VIS/NIR MULTICHANNEL SPECTRORADIOMETER SPECIFICATIONS

OL 770 UV/VIS SPECIFICATIONS	
<b>WAVELENGTH RANGE (STANDARD)</b>	200 to 780 nm
<b>WAVELENGTH ACCURACY</b>	± 0.75 nm
<b>OPTICAL BANDWIDTH</b>	3.5 nm (with 100 µm Input Slit; 50 µm and 200 µm also Available)
<b>SPECTRAL RESOLUTION</b>	± 0.6 nm
<b>SLITS (USER INTERCHANGEABLE)</b>	100 Micron (Standard); 50 Micron & 200 Micron (Optional)
<b>OPTICAL FOCAL LENGTH</b>	140 mm
<b>OPTICAL INPUT</b>	Fiber Optic
<b>OPTICAL APERTURE</b>	f/2
<b>OPERATING TEMPERATURE</b>	0 to 40°C
<b>OPERATING HUMIDITY</b>	0 to 90% (Non-condensing)
<b>DETECTOR TECHNOLOGY</b>	TE-Cooled, Back-Thinned, 2-Dimensional CCD Array
<b>DETECTOR COOLING TEMPERATURE</b>	-10°C
<b>QUANTUM EFFICIENCY</b>	> 90% at 650 nm
<b>CHROMATICITY ACCURACY</b>	± 0.002 x,y
<b>CHROMATICITY REPEATABILITY (TEMPERATURE STABILIZED BLUE LED)</b>	± 0.00015 x. ± 0.0002 y
<b>STRAY LIGHT (TUNGSTEN SOURCE)</b>	< 2.5 E <sup>-4</sup> (> 300 nm)
<b>INTEGRATION TIME</b>	20 ms – 60 s
<b>A/D RESOLUTION</b>	16 Bits
<b>A/D RATE</b>	250 kHz
<b>POWER INPUT</b>	115/230 Vac
<b>INTERFACE</b>	USB, RS-232
<b>DIMENSIONS</b>	7 ¼" W x 13 ¼" H x 13" D (18.4 cm W x 33.6 cm H x 33.0 cm D)
<b>WEIGHT</b>	22.5 lbs. (10.2 kg)

## OL 770 VIS/NIR SPECIFICATIONS

<b>WAVELENGTH RANGE (STANDARD)</b>	380 to 1100 nm
<b>WAVELENGTH ACCURACY</b>	± 1.0 nm
<b>OPTICAL BANDWIDTH</b>	5.0 nm (with 100 µm Input Slit: 50 µm and 200 µm also Available)
<b>SPECTRAL RESOLUTION</b>	± 0.75 nm
<b>SLITS (USER INTERCHANGEABLE)</b>	100 Micron (Standard); 50 Micron & 200 Micron (Optional)
<b>OPTICAL FOCAL LENGTH</b>	140 mm
<b>OPTICAL INPUT</b>	Fiber Optic
<b>OPTICAL APERTURE</b>	f/2
<b>OPERATING TEMPERATURE</b>	0 to 40°C
<b>OPERATING HUMIDITY</b>	0 to 90% (Non-condensing)
<b>DETECTOR TECHNOLOGY</b>	TE-Cooled, Back-Thinned, 2-Dimensional CCD Array
<b>DETECTOR COOLING TEMPERATURE</b>	-10°C
<b>QUANTUM EFFICIENCY</b>	> 90% at 650 nm
<b>CHROMATICITY ACCURACY</b>	± 0.002 x,y
<b>CHROMATICITY REPEATABILITY (TEMPERATURE STABILIZED BLUE LED)</b>	± 0.00015 x, ± 0.0002 y
<b>STRAY LIGHT (TUNGSTEN SOURCE)</b>	< 2.5 E <sup>-4</sup>
<b>INTEGRATION TIME</b>	20 ms – 60 s
<b>A/D RESOLUTION</b>	16 Bits
<b>A/D RATE</b>	250 kHz
<b>POWER INPUT</b>	115/230 Vac
<b>INTERFACE</b>	USB, RS-232
<b>DIMENSIONS</b>	7 ¼" W x 13 ¼" H x 13" D (18.4 cm W x 33.6 cm H x 33.0 cm D)
<b>WEIGHT</b>	22.5 lbs. (10.2 kg)

**OPTRONIC™**  
LABORATORIES

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As part of our policy of continuous product improvement,  
we reserve the right to change specifications at any time.