

TECHNICAL COMPARISON OL 770 VS COMPETITION

SPECIFICATION	OPTRONIC LABORATORIES OL 770-LED	INSTRUMENT SYSTEM CAS-140CT	LABSPHERE CDS-3020	EVERFINE * HAAS-2000
Spectral Range	280 – 780 nm (UV/VIS) 380 – 780 nm (VIS) 380 – 1100 nm (VIS/NIR) 850 – 1700 nm (InGaAs)	200 – 800 nm 220 – 1020 nm 300 – 1100 nm 360 – 830 nm 380 – 1040 nm 750 – 1050 nm 780 – 1650 nm 1500 – 2150 nm	350 – 830 nm 360 – 1100 nm	200 – 400 nm (UV) 380 – 780 nm (VIS) 200 – 800 nm (UVIS) 350 - 1100 nm (VIR) 200 - 1200 nm (UVIR) 780 - 1650 nm (IR) 1500 - 2550 nm (IR2)
Wavelength Accuracy	± 0.5 nm Max but Typically Under .25 nm		±0.3nm ±0.5nm	± 0.3nm
Optical Bandwidth	VIS – 3.0 nm NIR – 5.0 nm UV – 3.5 nm InGaAs – 10.0 nm	-151 – 2.2 nm -152 – 2.7 nm -153 – 3.0 nm -154 – 3.7 nm -155 – 2.0 nm -170 – 15 nm 171 – 9 nm	3 nm	2.0 nm (VIS) 4 nm (UV/VIS) 4 nm (VIR) 5 nm (UVIR) 9 nm (IR1) 15 nm (IR2)
Stray Light (Tungsten Source)	2.5E ⁻⁴	5.0E ⁻⁴	1.8E ⁻⁵ (450 – 550 nm) (Laser 633 nm)	5E-5 but with 'Stray Light Algorithm' Applied to Data
Linearity	0.15% Over 3 Decades; < 1% Over 5 Decades	0.5%	± 0.5%	0.3%
Minimum Integration Time	5 ms Available	10 ms	5 ms	9 ms
Maximum Integration Time	300 s (600 s for NIR)	65 s	20 s	60 s
Dynamic Range	8 Decades (with ND Filters)		1000000:1 6 Decades (with ND filters)	16 bit
Interface	USB	USB	USB 2.0	USB 2.0
Operating Temperature Range	0° - 30°C	15° - 35°C	20 - 35°C and 'No Sudden Temp Changes'	Unknown

* Specifications are suspect

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