

# OL 770-DMS TECHNOLOGY COMPARISON CHART

		PR-705 SPECTRASCAN SYSTEM	PR-730 SPECTRASCAN SYSTEM	OPTRONIC LABORATORIES'S OL 770-DMS
Measurement Wavelength		380-780 nm	380-780 nm	380-780 nm
Wavelength Resolution			0.781 nm	0.4 nm
Wavelength Step for Display		2.5 nm	2.0 nm	~ 0.4 nm
Center (Main) Wavelength			380-780 nm	380-780 nm
Spectral Bandwidth			2 nm, 5 nm, or 8nm (Selectable)	3.0 nm (Dependence Slit Width)
Measurement Range of Luminance (Illuminant A)	2°	2°		
	1°	1°		0.003 ~ 1200 cd/m <sup>2</sup>
	0.2°	½°		0.014 ~ 4800 cd/m <sup>2</sup>
Luminance Accuracy (Temp 23°C ± 2°C)		± 2%	± 2% against NIST-traceable Illuminant A Standard at 0.003 fL (0.0009 cd/m <sup>2</sup> ) w/ 2° Aperture	± 2%
Color Accuracy for Illuminant A (Temp 23°C ± 2°C)	2°	X: ± 0.0015 / y: ± 0.001	± 0.0015 for CIE 131 x,y Illuminant A (2856K) at 0.003 fL (0.0009 cd/m <sup>2</sup> ) w/ 2° Aperture	± 0.002 x,y
	1°			
	0.2°			
	0.1°			
Color Repeatability (2σ)	2°		0.0005 for CIE 1931 x,y for Illuminant A (2856K) at 0.003 fL (0.009 cd/m <sup>2</sup> ) w/ 2° Aperture	± 0.00015 x, ± 0.0002 y
	1°			
	0.2°			
	0.1°			
Polarization Error			< 0.2%	< 1%
Integration Time				Auto or Manual Integration Times from 0.02 – 60 secs
Measurement Time				Auto or Manual Integration Times from 0.02 – 60 secs
Measurement Area		0.12 mm @ ½°		0.38 mm @ OL 610-L-110/210 Combo; 0.5 mm Aperture Size
Interface		RS-232C	USB, Bluetooth, RS-232	USB, RS-232C
Conditions			Humidity: 0 – 90% (Non- condensing) / Temperature: 1 – 35°C	Humidity: 0 – 90% (Non- condensing) / Temperature: 0 – 40°C
Size			28.0 cm X 17.0 cm X 20.3 cm	
Weight			6.46 kg	17.0 kg

**Information Sheet: IS59 Feb 2019**

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