Lovibond® Colour Measurement

Tintometer® Group





- fingertip control
- Intuitive icon-based display for fast and easy operation
- Robust construction for a long life in both production and laboratory environments
- Specially designed accessories for a wide range of materials including powder, liquid, gel, paste, granules and solid material
- On-board camera-based locator makes it easy to see what you are measuring for repeatable, stable results

- Set customised parameters for quality control
- Free OnShade PC-based software which allows graphs, statistical process control, shade searching, all available colour, space, colour differences and indices
- Bluetooth® connectivity where available
- Measure fluorescent materials with UV in and UV out
- Multiple language support

Market sectors

Coatings Food and Beverage **Household Products** Medical and Clinical

Plastics

TR 520 / 500 Accessories



www.lovibond.com







■ Download form

Specially designed accessories for a wide range of materials including powder, liquid, gel, paste, granules and solid material

Specifications	TR 520	TR 500		
Optical Geometry	Reflect: di: 8°, de: 8° (diffused illumination, 8 degree viewing angle)			
Integrating Sphere Size	48mm			
Light Source	Combined LED Light, UV Light	Combined LED Light		
Spectrophotometric Mode	Concave	Grating		
Sensor	256 image Element Double Array CMOS Image Sensor			
Wavelength Range	400-700nm			
Wavelength Interval	10nm			
Semiband Width	10nm			
Measured Reflectance Range	0-200%			
Measuring Aperture	Dual Aperture: 10mm/8mm & 5mm/4mm	Customized Aperture: 8mm/4mm/1x3mm		
Specular Component	SCI & SCE			
Colour Space	CIE Lab, XYZ, Yxy, LCh, CIE LUV, Hunter Lab			
Colour Difference Formular	Δ E*ab, Δ E*uv, Δ E*94, Δ E*cmc (2:1), Δ E*cmc (1:1), Δ E*00v, Δ E (Hunter)			
Other Colorimetric Index	WI (ASTM E313, CIE/ISO, AATCC, Hunter) YI (ASTM D1925, ASTM 313, TI (ASTM E313, CIE/ISO)			
Other Colorinietric index	Metamerism Index MI, Staining Fastness, Colour Fastness, Colour Strength, Opacity			
Observer Angle	2° / 10°			
Illuminant	D65, A, C, D50, D55, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12	D65, A, C, D50, D55, D75, F2, F7, F11		
Displayed Data	Spectrogram/Values, Samples Chromaticity Values, Colour Difference Values/Graph, PASS/FAIL Result, Colour Offset			
Measuring Time	2.6s			
Repeatability	MAV/SCI: ΔE* ≤0.03	MAV/SCI: ΔE* ≤0.05		
Inter-Instrument Agreement	MAV/SCI: ΔE* ≤0.15	MAV/SCI: ΔE* ≤0.2		
Measurement Mode	Single Measurement, Average Measurement			
Locating Method	Camera View Finder Locating			
Battery	Li-ion battery. 5000 measurements with 8 hours			
Dimensions	184mm L x 77mm W x 105mm H			
Weight	600g			
Illuminant Life Span	5 years, more than 3 million measurements			
Display	3.5 inch TFT colour LCD, Capacitive Touch Screen			
Data Port	USB, Bluetooth® 4.0			
Data Storage	2000 Standards : 20000 Samples			
Languages	English, French, German, Spanish, Portuguese, Chinese			
Operating Environment	0~40°C, 0~85° Relative Humidity (non condensing), Altitude < 2000m			
Storage Environment	-20~50°C, 0~85° Relative Humidity (non condensing)			
Standard Accessories Included	PC OnShade Software, White & Black Calibration Cavity, Power Adapter, Built-in Li-ion Battery, User Guide			
Optional Accessories	Micro Printer, TR Accessory (for Liquids, Powers and Gels)			

Order No	Product	Order No	Product
403035	TR 520 (8mm and 4mm Aperture)	403042	TR 500 (1 x 3mm Aperture)
403040	TR 500 (8mm Aperture)	403225	TRA 520
403041	TR 500 (4mm Aperture)	403220	TRA 500

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