Lovibond® Colour Measurement

Tintometer® Group



TRA 520 Handheld & Benchtop Sphere Spectrophotometer



- Compact, Lightweight and Easy to use Sphere Spectrophotometer
- Designed for Fast, Accurate and Precise
 Colour Measurement
- On Screen Target Display Allows
 Positioning to be Perfect Every Time
- OnShade Software Included for FREE –
 Perfect for Detailed Data Analysis

货号: 403225

Handheld and Benchtop

With the ability of being both a handheld and a benchtop unit, the TRA 520 offers the best of both worlds. The compact, ergonomic and lightweight design of the handheld unit along with the precision-engineered benchtop stand makes the TRA 520 ideal for users on the go or in the laboratory.

Applications

The TRA 520 allows the user to measure most applications including powders, liquids, gels, pastes, granules and solid materials. Users can also measure florescent materials with UV In and UV Out.

Accuracy

Giving accurate and repeatable results is what the TRA 520 does best. The on board camera based locator, enables the user to position the instrument accurately on the chosen sample with minimal contact. This feature dramatically minimize the chances of geometric metamerism.

Aperture Options

Choosing the correct aperture size for your surface is extremely important for accurate measurement. The TRA 520 gives you the flexibility to adjust aperture size from 10mm/8mm to 5mm/4mm with the switch of a button. This adjustability of aperture helps to ensure the instrument is perfect for your measurement needs.

Calibration

The calibration board supplied with every TRA 520 incorporates a white tile and black calibration plate. This allows minimum and maximum readings to be checked every 24 hours.

FREE Software

As standard, the TRA 520 comes with a FREE PC software package. The OnShade software allows for a detailed data analysis which can then be shared or printed via the optional micro printer accessory.

Suitable for Multiple Applications

The versatility of the TRA 520 means its suitable for multiple applications and has the ability to report CIE Lab, XYZ, Yxy, LCh, CIE LUV, Hunter Lab colour spaces, $\Delta E^*L^*a^*b^*$, $\Delta E^*C^*h^\circ$, ΔE^*uv , ΔE^*94 , $\Delta E^*cmc(2:1)$, $\Delta E^*cmc(1:1)$, ΔE^*00 , ΔE Hunter Colour Difference Formulars; and can be set to D65, A, C, D50, D55, D75, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11, F12 illuminants. In addition, the TRA 520 can report a wide selection of other Colorimetric Index's: WI (ASTM E313, CIE/ISO, AATCC, Hunter), YI (ASTM D1925, ASTM 313), TI (ASTM, E313, CIE/ISO), Metamerism Index (MI), Colour stain, Colour Fastness, Colour Strength and Opacity. This data can be seen as either Spectral Value/ Graph, Colorimetric Value, Colour Difference Value/ Graph, PASS/FAIL Result, Colour Offset or Samples Chromaticity valuesN6

行业

其他行业 | 化工行业 | 医药行业 | 油气 | 食品和饮料行业

应用

塑料 | 日用品 | 涂料 | 纺织品

TRA 520 Handheld & Benchtop Sphere Spectrophotometer

The TRA 520 is a cost effective quality control solution, which can be used as either a handheld or a benchtop spectrophotometer. The lightweight and ergonomic design along with the portable benchtop stand makes it ideal for quality control in the lab, field or in the manufacturing plant. Available with switchable apertures of 10mm/8mm & 5mm/4mm and the ability to measure florescent materials with UV In and UV Out makes the TRA 520 the perfect cost-effective handheld and benchtop spectrophotometer.N616

Technical Data

Applicable Standard	ASTM 313 ASTM D1925 ASTM E308	
颜色类型	Opaque	
光学测量结构	Reflect: di: 8°, de: 8° (diffused illumination, 8 degruiewing angle)	
积分球尺寸	48 mm	
分光模式	Concave Grating	
Sensor	256 image Element Double Array CMOS Image Sensor	
显示	3.5 inch TFT colour LCD, Capacitive Touch Screen	
数据接口	USB	
光谱间隔	10 nm	
测量模式	Single Measurement, Average Measurement	
外部存储器	2000 Standards : 20000 Samples	
定位方式	Camera View Finder Locating	
反射率量程	0 - 200 %	
测量时间	2.6 s	
测量孔径	Dual Aperture: 10mm/8mm & 5mm/4mm	
镜面反射	SCI & SCE	
色差测量	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)	
电池寿命	5000 measurements with 8 hours	
其他颜色指数	WI (ASTM E313, CIE/ISO, AATCC, Hunter) YI (ASTM D1925, ASTM 313, TI (ASTM E313, CIE ISO) Metamerism Index MI, Staining Fastness, Colour Fastness, Colour Strength, Opacity	
显示数据	Spectrogram/Values, Samples Chromaticity Values Colour Difference Values/Graph, PASS/FAIL Resul Colour Offset	
仪器台间差	MAV/SCI: ΔE* ≤0.15	
光谱范围	400 - 700 nm	
一 带宽	10 nm	
照明体	CIE Illuminant D65 CIE Illuminant A CIE Illuminant C CIE Illuminant D50 CIE Illuminant D55 CIE Illuminant D75 CIE Illuminant F1 CIE Illuminant F2 CIE Illuminant F3 CIE Illuminant F4 CIE Illuminant F4 CIE Illuminant F5 CIE Illuminant F6 CIE Illuminant F7 CIE Illuminant F7 CIE Illuminant F9 CIE Illuminant F9 CIE Illuminant F10 CIE Illuminant F11 CIE Illuminant F11	
便携性	F提	
	工 1	

光源寿命	5 years, more than 3 million measurements	
观测者	2° / 10°	
多语言操作界面	英文, 德文, 法文, 西班牙, 葡萄牙, 中文	
尺寸	184 x 105 x 77 mm	

标准配置文本

- TR 520 Sphere Spectrophotometer
- TRA Portable benchtop Stand
- OnShade PC Software
- White and Black Calibration Board
- White background plate
- Dust Cover
- USB Cable External DC Power Supply
 USB Stick with User Manuals in
 English, French, German, Spanish,
 Portuguese and Chinese
- Sturdy Carrying Case
- 10 mm, 20 mm and 30 mm Optical Glass cells
- Cell Cover

标题	货号
W586/OG/10 光学玻璃	605890
W586/OG/10 光学玻璃, 5 件	605895
W586/OG/20 光学玻璃	605900
W586/OG/20 光学玻璃, 5 件	605905
W586/OG/30 光学玻璃	605910
W586/OG/30 光学玻璃, 5 件	605915

Tintometer GmbH

Lovibond® Water Testing Schleefstraße 8-12 44287 Dortmund Tel.: +49 (0)231/94510-0 sales@lovibond.com www.lovibond.com

Tintometer Brazil

Caixa Postal: 271 CEP: 13201-970 Jundiaí – SP Tel.: +55 (11) 3230-6410 sales@lovibond.us www.lovibond.com.br 巴西

The Tintometer Limited

Lovibond House Sun Rise Way Amesbury, SP4 7GR Tel.: +44 (0)1980 664800 sales@lovibond.uk www.lovibond.com 英国

Tintometer Inc.

6456 Parkland Drive Sarasota, FL 34243 Tel: 941.756.6410 Fax: 941.727.9654 sales@lovibond.us www.lovibond.us 美国

Tintometer China

9F, SOHO II C.
No.9 Guanghualu,
Chaoyang District,
Beijing, 100020
Customer Care China Tel.: 4009021628
Tel.: +86 10 85251111 Ext. 330
Fax: +86 10 85251001
chinaoffice@tintometer.com
www.lovibond.com
中国

Tintometer India Pvt. Ltd.

印度

Door No: 7-2-C-14, 2nd, 3nd & 4th Floor Sanathnagar Industrial Estate, Hyderabad, 500018 Telangana Tel: +91 (0) 40 23883300 Toll Free: 1 800 599 3891/ 3892 indiaoffice@lovibond.in www.lovibondwater.in

Tintometer South East Asia

Unit B-3-12, BBT One Boulevard, Lebuh Nilam 2, Bandar Bukit Tinggi, Klang, 41200, Selangor D.E Tel.: +60 (0)3 3325 2285/6 Fax: +60 (0)3 3325 2287 lovibond.asia@tintometer.com www.lovibond.com 马来西亚

Tintometer Spain

Postbox: 24047 08080 Barcelona Tel.: +34 661 606 770 sales@tintometer.es www.lovibond.com 西班牙