

Lovibond® Colour Measurement Tintometer® Group



TR 500 Spectrophotometer (1x8mm Aperture)



- 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: 403040

Handheld and Portable

Weighing only 600 grams, the TR 500 is the perfect lightweight portable spectrophotometer. It's compact and ergonomic design offers easy one-handed operation, helping to prevent operator fatigue and enabling more measurements per hour. Offering the possibility of 5000 measurements with 8 hours battery life enables the TR 500 to be used anywhere on site for a prolonged period of time.

Accuracy

Giving accurate and repeatable results is what the TR 500 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. This is why the TR 500 has three aperture options available in either 8mm, 4mm or 1x3mm. This choice of customised aperture helps to ensure the instrument is perfect for your measurement needs.

Calibration

The calibration board supplied with every TR 500 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 TR 500 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 TR 500 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 Formulas; and can be set to D65, A, C, D50, D55, D75, F2, F7 & F11 illuminants. In addition, the TR 500 can report a wide selection of other Colorimetric Indexes: 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 values.

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

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

TR 500 Spectrophotometer (1x8mm Aperture)

The TR 500 is a cost effective handheld spectrophotometer with a high-end specification. The ergonomic design, flexibility and on screen target display makes it ideal for quality control in the lab, field or in the manufacturing plant. Available in either 8mm, 4mm or 1x3mm aperture, the TR 500 offers the flexibility to choose the right measurement size for your chosen surface.

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 degree viewing angle)
积分球尺寸	48 mm
分光模式	Concave Grating
Sensor	256 image Element Double Array CMOS Image Sensor
重复性	MAV/SCI: $\Delta E^* \leq 0.05$
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	Customized Aperture: 8mm/4mm & 1x3mm
镜面反射	SCI & SCE
色差测量	ΔE^*_{ab} , ΔE^*_{uv} , ΔE^*_{94} , ΔE^*_{cmc} (2:1), ΔE^*_{cmc} (1:1), ΔE^*_{00v} , ΔE (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 Result, Colour Offset
仪器台间差	MAV/SCI: $\Delta E^* \leq 0.2$
光谱范围	400 - 700 nm
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 F5 CIE Illuminant F6 CIE Illuminant F7 CIE Illuminant F8 CIE Illuminant F9 CIE Illuminant F10 CIE Illuminant F11 CIE Illuminant F12
便携性	手提

标准配置文本

- TR 500 Sphere Spectrophotometer
- OnShade PC Software
- White and Black Calibration Board
- Dust Cover
- USB Cable
- External DC Power Supply
- USB Stick with User Manuals in English, French, German, Spanish, Portuguese and Chinese
- Sturdy Carrying Case

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