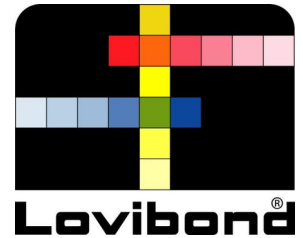


Lovibond® Colour Measurement Tintometer® Group



TR 500 Spectrophotometer (4 mm Aperture)

Ergonomisches Reflexionsmessgerät mit Dual-Blende: 10mm/8mm & 5mm/4mm



- Intuitive, integrierte und symbolbasierte Software
- Erlaubt die Messung von Ansichten von großen oder kleinen Bereichen und damit einfache Austauschbarkeit.
- Kostenlose, PC-basierte OnShade-Software für Grafiken und statistische Prozesskontrolle
- Fluoreszierende Materialien können mit UV In und UV Out gemessen werden.

Bestell-Nr.: 403041

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 metamorphism.

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.

Industrie

Chemische Industrie | Industrien sonstige | Lebensmittel- und Getränkeindustrie | Ölindustrie | Pharmazeutische Industrie

Applikation

Beschichtungen | Haushaltsprodukte | Kunststoffe | Textilien

TR 500 Spectrophotometer (4 mm Aperture)

Ein ergonomisches, flexibles Reflexionsspektrophotometer mit leicht wählbaren Blenden von 10mm/8mm & 5mm/4mm. Touchscreen-Technologie mit intuitiven Symbolen, die benutzerspezifische Einstellungen ermöglichen und durch den Messprozess führen. Ein kamerabasierter integrierte Ortungsgerät und Schwarz-Weiß-Kalibrierplatten sorgen jederzeit für genaue Messungen und Ergebnisse. Mehrsprachige Unterstützung für die internationale Verwendung.

Technische Daten

Applicable Standard	ASTM 313 ASTM D1925 ASTM E308
Farb-Durchsichtigkeit	Opaque
Messgeometrie	Reflect: di: 8°, de: 8° (diffused illumination, 8 degree viewing angle)
Kugeldurchmesser	48 mm
Monochromator	Concave Grating
Sensor	256 image Element Double Array CMOS Image Sensor
Display	3.5 inch TFT colour LCD, Capacitive Touch Screen
Schnittstellen	USB
Wellenlängenintervall	10 nm
Messmodus	Single Measurement, Average Measurement
externer Speicher	2000 Standards : 20000 Samples
Positionsmethode	Camera View Finder Locating
Gemessene Reflektionsbandbreite	0 - 200 %
Messzeit	2.6 s
Messblende	Dual Aperture: 10mm/8mm & 5mm/4mm
Spiegelnde Komponenten	SCI & SCE
Stromversorgung	Li-ion Battery
Farbunterschiede	ΔE^*ab , ΔE^*uv , ΔE^*94 , ΔE^*cmc (2:1), ΔE^*cmc (1:1), ΔE^*00v , ΔE (Hunter)
Batterielebensdauer	5000 measurements with 8 hours
Farbindizes; Weitere	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
Datenanzeige	Spectrogram/Values, Samples Chromaticity Values, Colour Difference Values/Graph, PASS/FAIL Result, Colour Offset
Inter- Instrument-Agreement	MAV/SCI: $\Delta E^* \leq 0.15$
Spektralbereich	400 - 700 nm
Bandbreite	10 nm
Lichtarten	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

Tragbarkeit	Tragbar
Lebensdauer Lichtquelle	5 years, more than 3 million measurements
Normvalenz	2° / 10°
Sprachen Benutzeroberfläche	Englisch, Deutsch, Französisch, Spanisch, Portugiesisch, Chinesisch
Abmessungen	184 x 105 x 77 mm

Lieferumfang

- 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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