

Lovibond® Colour Measurement

Tintometer® Group



RT 400 & RT 500

- ✓ Ergonomic design - smooth comfortable handling
- ✓ Manage colour throughout the production phase
- ✓ Improve consistency and achieve customer expectations
- ✓ Manage process control and reduce operating costs
- ✓ Measures wide range of materials, shapes, sizes, textures and opacity levels
- ✓ Results at a glance - detailed analysis or 'pass / fail' notification

www.lovibondcolour.com



Features

RT 400	RT 500	RT 505	RT 520	RT 530
8mm measurement area / 14mm target window	8mm measurement area / 14mm target window	4mm measurement area / 6.5 mm target window	4mm measurement area / 6.5 mm target window and 8mm measurement area / 14mm target window	Large fixed aperture 14 mm measurement area / 20mm target window
Gas-filled tungsten lamp	Gas-filled tungsten lamp	Gas-filled tungsten lamp	Gas-filled tungsten lamp	Gas-filled tungsten lamp
Inter-Instrument Agreement CIE L*a*b* Avg. 0.4 ΔE^*ab based on avg. of 12 BCRA Series II tiles (specular component included) Max 0.60 ΔE^*ab on any tile (specular component included)	Inter-Instrument Agreement CIE L*a*b* Avg. 0.20 ΔE^*ab based on avg. of 12 BCRA Series II tiles (specular component included) Max 0.40 ΔE^*ab on any tile (specular component included)	Inter-Instrument Agreement CIE L*a*b* Avg. 0.20 ΔE^*ab based on avg. of 12 BCRA Series II tiles (specular component included) Max 0.40 ΔE^*ab on any tile (specular component included)	Inter-Instrument Agreement 4mm/6.5mm CIE L*a*b* Avg. 0.2 ΔE^*ab based on avg. of 12 BCRA Series II tiles (specular component included) Max 0.40 ΔE^*ab on any tile (specular component included) 8mm/14mm CIE L*a*b* Avg. 0.13 ΔE^*ab based on avg. of 12 BCRA Series II tiles (specular component included) Max 0.25 ΔE^*ab on any tile (specular component included)	Inter-Instrument Agreement CIE L*a*b* Avg. 0.13 ΔE^*ab based on avg. of 12 BCRA Series II tiles (specular component included) Max 0.25 ΔE^*ab on any tile (specular component included)
Short-term Repeatability .10 ΔE^*ab on white ceramic	Short-term Repeatability .05 ΔE^*ab on white ceramic	Short-term Repeatability .05 ΔE^*ab on white ceramic	Short-term Repeatability .04 ΔE^*ab on white ceramic	Short-term Repeatability .04 ΔE^*ab on white ceramic
	USB 2.0, Bluetooth®*	USB 2.0, Bluetooth®*	USB 2.0, Bluetooth®*	USB 2.0, Bluetooth®*
Calibration standards: Black trap, White standards, Operations manual, AC adapter	Calibration standards: Black trap, White & green standards, Operations manual, AC adapter	Calibration standards: Black trap, White & green standards, Operations manual, AC adapter	Calibration standards: Black trap, White & green standards, Operations manual, AC adapter	Calibration standards: Black trap, White & green standards, Operations manual, AC adapter
Sample presentation fixtures, spare battery, dual bay charger	NetProfiler, Sample presentation fixtures, benchtop stand, spare battery, dual bay charger	NetProfiler, Sample presentation fixtures, benchtop stand, spare battery, dual bay charger	NetProfiler, Sample presentation fixtures, benchtop stand, spare battery, dual bay charger	NetProfiler, Sample presentation fixtures, benchtop stand, spare battery, dual bay charger
QA, Compare, Opacity, Strength	QA, Compare, Opacity, Strength, Projects	QA, Compare, Opacity, Strength, Projects & Jobs	QA, Compare, Opacity, Strength, Projects & Jobs	QA, Compare, Opacity, Strength, Projects & Jobs
Part Number: 400400	Part Number: 400500	Part Number: 400504	Part Number: 400520	Part Number: 400530

* In compliant countries only. Works with your sales representative to identify if it is an available option in your region.

'Project' function - allows a different group of standards for each project.

'Jobs' function - step by step instructions will allow a programmed sequence of specific steps to assist the operator in the colour measurement process.

Technical Specification

Measuring Geometrics	d/8°, DRS spectral engine, fixed aperture simultaneous SPIN / SPEG	Lamp Life	Approx 500,000 measurements
Illuminant Types	A, C, D50, D65, F2, F7, F11 & F12	Charge Time	Approx 4 hours - 100% capacity
Data Compatibility	RT series backward compatibility	Battery	Removable (Li-ion) battery pack; 7.4 VDC, 2400 mAh
Standard Observers	2° & 10°	Transform Support	Embedded
Receiver	Blue-enhanced silicon photodiodes	AC Adapter Requirements	100-240VAC 50/60Hz, 12VDC @ 2.5A
Spectral Range	400 - 700nm	Display	3.2 inch backlit Colour Graphic LCD
Spectral Interval	10nm - measured 10nm - output	Operating Temperature	50° to 104°F (10° to 40°C)
Storage	1,000 standards with tolerances 4,000 samples	Range	85% relative humidity maximum (non-condensing)
Measurement Range	0 to 200% reflectance	Storage Temperature Range	-4° to 122°F (-20° to 50°C)
Measurement Time	Approx 2 seconds	Weight	2.34 lbs. (1.06 kg)
		Dimensions	4.3" H (10.9cm) x 3.6" W (9.1cm) x 8.4" L (21.3cm)

Colour Spaces, Indices, Functions

Pass/Fail, Lab, Y1925, WI Taube, ΔE_{cmc} , ΔLab , $\Delta WI73$, L*a*b*, Reflectance, WI98, MI, ΔE_{00} , $\Delta reflectance$, ΔWI Berger, L*C*h°, Munsell Notation, WI73, MI6172, ΔE_{94} , ΔYI_{98} , ΔWI Hunter, XYZ, Gray Scale, WI Berger, Gloss, ΔXYZ , ΔYI_{73} , ΔWI Stensby, Yxy, YI98, WI Hunter, $\Delta L^*a^*b^*$, ΔYxy , ΔYI_{1925} , ΔWI Taube, L*u*v*, YI73, WI Stensby, $\Delta L^*C^*h^*$, $\Delta L^*u^*v^*$, ΔWI_{98} , Averaging, 555 Shade Sort, Verbal Difference, Power Management

The Tintometer Ltd
T: +44 (0)1980 664800
F: +44 (0)1980 625412

Tintometer Inc
T: +1 941 758 8671
F: +1 941 727 9654

Tintometer - China
T: +86 10 8525 1111 Ext 330
F: +86 10 85251001

Tintometer - South East Asia
T: +603 3325 2286
F: +603 3325 2287

Tintometer India Pvt. Ltd
T: +91 (0) 40 4647 9911
Toll Free: 1800 102 3891

sales@tintometer.com

Lovibond® and Tintometer® are Registered Trade Marks of The Tintometer Limited. All translations and transliterations of LOVIBOND® & TINTOMETER® are asserted as Trade Marks of The Tintometer® Group. Registered Office: Lovibond House, UK. Registered in England No. 45024. Errors and Omissions Excepted - Content Subject to alterations without notice. The Bluetooth® mark, figure mark and combination mark are trademarks owned by the Bluetooth SIG.

www.lovibondcolour.com