

# 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](http://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 <b>4mm/6.5mm</b> 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) <b>8mm/14mm</b> 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

<b>Measuring Geometrics</b>	d/8°, DRS spectral engine, fixed aperture simultaneous SPIN / SPEX	<b>Lamp Life</b>	Approx 500,000 measurements
<b>Illuminant Types</b>	A, C, D50, D65, F2, F7, F11 & F12	<b>Charge Time</b>	Approx 4 hours - 100% capacity
<b>Data Compatibility</b>	RT series backward compatibility	<b>Battery</b>	Removable (Li-ion) battery pack; 7.4 VDC, 2400 mAh
<b>Standard Observers</b>	2° & 10°	<b>Transform Support</b>	Embedded
<b>Receiver</b>	Blue-enhanced silicon photodiodes	<b>AC Adapter Requirements</b>	100-240VAC 50/60Hz, 12VDC @ 2.5A
<b>Spectral Range</b>	400 - 700nm	<b>Display</b>	3.2 inch backlit Colour Graphic LCD
<b>Spectral Interval</b>	10nm - measured 10nm - output	<b>Operating Temperature</b>	50° to 104°F (10° to 40°C)
<b>Storage</b>	1,000 standards with tolerances 4,000 samples	<b>Range</b>	85% relative humidity maximum (non-condensing)
<b>Measurement Range</b>	0 to 200% reflectance	<b>Storage Temperature Range</b>	-4° to 122°F (-20° to 50°C)
<b>Measuring Time</b>	Approx 2 seconds	<b>Weight</b>	2.34 lbs. (1.06 kg)
		<b>Dimensions</b>	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, Δecmc, Δlab, ΔWI73, L\*a\*b\*, Reflectance, WI98, MI, ΔE00, Δreflectance, ΔWI Berger, L\*C\*h°, Munsell Notation, WI73, MI6172, ΔE94, ΔYI98, ΔWI Hunter, XYZ, Gray Scale, WI Berger, Gloss, ΔXYZ, ΔYI73, ΔWI Stensby, Yxy, YI98, WI Hunter, ΔL\*a\*b\*, ΔYxy, ΔYI925, ΔWI Taube, L\*u\*v\*, YI73, WI Stensby, ΔL\*C\*h°, ΔL\*u\*v\*, ΔWI98, Averaging, 555 Shade Sort, Verbal Difference, Power Management

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