

Lovibond® Colour Measurement

Tintometer® Group



Lovibond® RT 850i

High Performance Benchtop Spectrophotometer

Supreme performance & flexibility

- ✓ Tri-beam technology
- ✓ Video preview for accuracy and targeting
- ✓ Status panel display
- ✓ Dampened sample arm holder

Lovibond® RT850i

High Performance Benchtop Spectrophotometer

Measuring Functions and Indices

The Lovibond® RT850i is a high performance benchtop spectrophotometer, designed to give fast, precise and accurate colour measurement information on a range of products when used with OnColor™ software. Whether you're establishing colour references or complying with established colour programs the RT850i offers the widest variety of sample sizes, shapes, textures and opacity levels and proves time and again to be the most versatile colour measurement instrument in its class.

1. Easy-access transmission measurement chamber - achieve maximum flexibility

The instrument has a wide transmission chamber to accommodate larger samples, including various-sized sample holders and cuvettes. In addition, it is capable of both direct and total transmission measurement. Whether you're working with transparent plastics, glass, dyes, petroleum or other liquids, you'll find it easy to get precise, accurate measurements of transmitted and absorbed light – without time-consuming adjustments.

2. User-selectable illumination filters – attain maximum flexibility

UV exclusion filters (400 nm) are standard on the RT850i. UV exclusion filtration identifies the presence of fluorescent materials and allows calibration of UV content.

3. Versatile sample holder for convenience

The sample holder offers a number of intelligent features to make your job easier:

- **Dampening action:** Controlled closing action protects the sample and the instrument.
- **Hinged sample door:** Enables manual viewing of sample position in the view port.
- **Detent lever:** Allows you to prop the holder open, if necessary.

4. User-defined instrument configurations – save time each time you measure

OnColor™ software – which manages both quality assurance and colour formulation – controls all RT850i functions, so there's no need to interact with an instrument keypad. The software lets you save and store frequently used instrument configurations for quick selection. This timesaving feature allows you to measure samples under various settings.

Specification	Lovibond® RT850i
Spectrophotometer	Vertical & horizontal (using optional stand)
Geometry	d/8°
Sphere diameter	6"
Specular component	Simultaneous
Detector	CCD array
Light source	Pulsed Xenon
Photometric range	0-200%
Spectral range	360-750 nm
Wavelength interval	10 nm
Reflectance resolution	0.01%
Inter-instrument agreement	0.15 ΔE^* avg (13 BCRA tiles)
Repeatability (white)	0.03 ΔE^* avg.
Measurement time	Approx. 2.5 sec.
Weight	12 kg.
Software interface	USB/RS 232
Transmission measurement	Direct and total
Fluorescent measurement	Auto UV calibration
UV exclusion filtration	400 nm
View aperture size	6.0/10.0/25.0 mm
Required computer	IBM compatible
Required software	RT OnColor™ Lite RT OnColor™ Premium
Sample holder	Dampening
Sample positioning	Computer imaging with physical reticle
Standard warranty	1 year
Purchasable options	• Horizontal measurement stand • Transmission sample holder & cell • Transmission cells
Power	100 - 240 VAC/ 50 - 60 Hz
Environment	Operating temperature 50° to 95°F (10° to 35°C) 20 - 80% RH non-condensing



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