



Flexible, benchtop Spectrophotometer

Convenient, accurate and flexible

Lovibond® RT600 & RT700



- High performance instrument
- Unique sample holder for previewing sample area
- Removable sample holder to measure large samples
- Light source: gas filled tungsten
- Consistent, accurate readings
- Geometry: sphere or 0°/45°
- Rugged construction
- Minimum footprint
- Built-in white calibration reference

Advanced Colour Measurement in Laboratory, Plant or Field

Lovibond® RT600 & RT700 Benchtop Spectrophotometers

Measuring Functions and Indices

The Lovibond® RT600 and RT700 series of versatile, benchtop spectrophotometers are designed to give fast, precise and accurate colour measurement information on a range of products when used with OnColor™ software. They provide absolute and difference measurements in various colorimetric systems including CIE XYZ, CIE Yxy, CIE L*a*b*, Hunter LAB, CIE L*C*h, CMC and CIE 94, whiteness and yellowness per ASTM E313-98, metamerism Index and DIN 6172.

SPECIFICATIONS

Measuring geometry	RT600: 0°/ 45°; RT700: diffuse/8° sphere
Spectral response	400 - 700 nm
Bandwidth	20 nm measured; 20 nm output
Repeatability	RT600 & 700: $\Delta E^*_{ab} = 0.1$ on white reference
Measurement range	0 - 200% reflectance
Measurement area	8 mm
Measurement time	Approximately 4 seconds
Light Source	Gas-filled tungsten lamp
Interface	Interface to OnColor™ Software via patented bi-directional RS232, 300 - 57600 baud
Lamp Life	Approx. 500,000 measurements
Power	115/230 VAC, 50 - 60 Hz
Dimensions	Height 12.7 cm, width 14.6 cm, length 22.9 cm
Weight	8.0lb
Control	Rear of unit
Communication	RS-232 serial interface
Insallation rating	FCC Class A, UK listed, CSA certified, Installation type Cat 11 CE
Environment	Operating: 10°C to 40°C
Storage	-20°C to 50°C
Relative humidity	85%
Inter-instrument agreement	0.3 ΔE^*_{ab} avg BCRA series II tile set

Accessories supplied

Calibration standards, operation manual, AC adapter

Order Codes

406000	RT600
407000	RT700
400590	OnColor™ Colour Software Lite
400610	OnColor™ Colour Software Premium



Compact, ergonomic, rugged design

The Lovibond® RT600 and RT700 series are compact instruments with a very small footprint which means they can fit into the majority of production environments without taking up too much space. The sample holder allows previewing of the sampled area but can be removed for the measurement of very large or awkward samples. The captive white calibration plate is built into the sample holder. No black calibration reference is required.

Maintenance free

No sphere recoating is required and both versions of the instrument are virtually maintenance free

Adapted for most applications



Textiles



Paints



Plastics