Lovibond® Colour Measurement

Tintometer® Group

LC 100 & SV 100

√ Hand-Held Imaging Spectrocolorimeter
√ Unique housing stand to protect sample from ambient light
√ Enables measurement of food, powders, cosmetics & pastes
√ Versatile Communication of Colour Measurement
√ Single, Simple, Reliable, Integrated Tool - no need to connect to PC
√ Readings and Comparison Charts within Seconds
√ Information on Colour and Surface Texture Effects
√ Conformance Reports in PDF and Excel Formats
√ Precise Image Sampling with 9 Band Accuracy

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Lovibond® LC 100

The Lovibond® LC 100 enables setting and maintaining colour standards throughout the manufacturing process. It is a lightweight tool that is easy to handle and ready to use. In just over a second, it not only provides a reading of the sample but also a report telling how close the colour is to a measured standard. Together with the Lovibond® SV 100, it is the ideal solution for the colour measurement of food, powder, cosmetics, pastes and pharmaceuticals.

The LC 100 automatically creates conformance reports in either PDF or Excel formats for each stored sample against each standard. These can easily be shared with a PC or directly to a compatible printer (via USB mass storage mode).

Features

- **Enhanced Working Agreement:**
  Takes images of sample using 8 different visible illuminations and 1 UV LED (9 bands) for more accurate colour measurement
- **Unique Imaging Technology: 45/0 optical geometry and image capture technology:** better agreement to visual observations
- **Information on Colour and Surface Texture Effects:**
  Each measurement is a combination of 27 images illuminated with different colours and from different directions
- **Quick, Accurate Reading:**
  Measurement time of just over a second
- **Precise Positioning on sample:**
  Enables preview of measurement area and storage and recall of image after measurement
- **Increased Quality Control:**
  Up to 30 reference standards can be measured and stored - each date and time stamped with option to name
- **Single Unit for Multiple Tests:**
  Up to 350 sample measurements can be stored on the device and compared to the reference standards
- **Easily Identify Measurements:**
  Samples can be tagged via the on-screen keyboard for text or via the built in voice recorder
- **Save and Print Results:**
  For a more in-depth report, the LC 100 creates PDF and CSV files which can be accessed via a PC with the USB mass storage mode

Test Results

Test results are easily viewed with:

√ Graphical Pass/Fail indicator
√ Display of ΔE for all common methods ie CIELAB, CMC, CIE 94, 2000
√ Display of measured and delta differences with L*a*b*C*h° for standard and sample
√ Graphical L*a*b* plot
√ Verbal colour difference description

Lovibond® SV 100

The Lovibond® LC 100 and SV 100 integrated package provides a unique solution to users looking to measure food, powders, cosmetics and pastes.

The SV 100 holder supports the LC 100 at an ergonomic viewing angle to enable the measurements in Lovibond® optical cells. A secure cap is provided to cover the sample, protecting it from any excessive ambient light, enabling quick yet accurate readings.

The units are provided in a purpose-designed case containing all the accessories required for accurate colour measurement expected of the Lovibond® brand.

Technical Specification

Measuring Geometrics	45/0 Image Capture
Light Source	Independent tri-directional 25 LED (8* visible wavelengths; 1* UV)
Illuminant/Observer	D65&A(10)
Standards / Sample Storage	30/350
Measurement Time	1.8 seconds
Measuring Area	4 & 8mm
Short Term Repeatability	Typical 0.10 ΔE 94 on white (D65/10)
Display	4.5cm Colour TFT
Data Interface	USB (Mass Storage Device)
Operating Temperature	0° to 40°C (50° to 104°F)
Storage Temperature	-20° to 60°C (-4° to 140°F)
Humidity Range	20-80% RH (non-condensing)
Usage	Indoor Use Only
Altitude	2000m
Polution Degree	2
Transient Overvoltage	Category II

Order Number	Product
401100	Lovibond® LC 100 Spectrophotometer
401120	Integrated Package : LC 100 & SV 100 Kit
132750	Replacement Cells (10mm, Pk 100)

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