

> SC 100i

SPECTROCOLORIMETER



The Spectrocolorimeter SC100i was designed by Relco Instruments after years of research and development in the field of colorimetric measurements applied to the food world.

The search for a reliable and, at the same time, convenient instrument to use in laboratory and in field for monitoring colorimetric changes, **the coordinates trichromatic, the spectrum of remission, the absorbance as a function of wavelength**, is absorbed into production of SC100i.

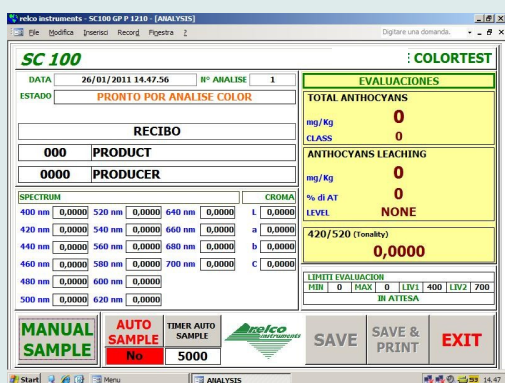
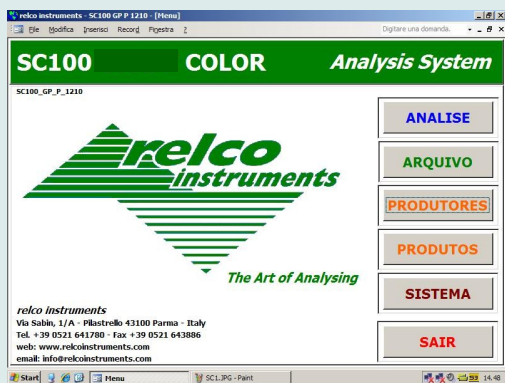
Based on a Spectrocolorimeter reflectance with geometry $45^\circ/0^\circ$ is capable, through its powerful built-in computer μ TX, to draw up the parameters listed, manage a database analysis, producing a statistical, connect to an Ethernet network.

Is possible, using special software, to return the analysis of specific parameters of the various products.

The methodology used is simple: provide the blending of sample using our preparation system, pour the obtained sample in the cell, almost instantaneous reading of the analysis parameters.



The art of analysing



PROCESSING OF :

- Color scales and measured parameters:

Hunterlab (L, a, b)
C, h
Tristimulus (X, Y, Z)
x, y
Photometric u', v'
other scales on request

- SPECTRAL REMISSION CURVE

From 400 to 700 nm
Logging to file every 20 nm spectral data

- ABSORBANCE

- REFLECTANCE CURVE

- SOFTWARE TO RECOGNIZE SPECIFIC PARAMETERS

- DATA MANAGEMENT ARCHIVES



Via Sabin 1/A
43123 Pilastrello - Parma - ITALY
Tel. +39 0521 641780
Fax +39 0521 643886
info@relcoinstruments.com
www.relcoinstruments.com

Technical specifications

| | |
|--|--|
| Working range | 400...700 nm |
| Geometry | 45°/0° (illumination 45° - Measurement 0°) |
| Accuracy | 0,2 dE* to calib. Standard |
| Resolution | 1 nm |
| Weight | 8 Kg. |
| Dimensions | 42x35x38(h) cm |
| Display | 10,4" touch-screen LCD 800x600 px |
| Calibration | White Standard |
| Check | through specific Standard for each product |
| Measuring | Reflectance - optical-fiber |
| Ref. Parameters | HunterLab (L-a-b) Tristimulus (X-Y-Z) Spectral remission Absorbance curve Reflectance |
| Measuring time | 5" |
| Light source | Krypton lamp with filter |
| Box | AISI 304 Stainless steel IP50 protection |
| Software | Easy and quick to handle, manages all the algorithms for data processing and for system configuration. |
| Language | Italian, English, Spanish, French |
| Power supply | 220 VAC - 50...60 Hz. 100VA |
| Operating temperature | 10...40 °C |
| Product temperature | 10...50 °C |
| OS | Windows XPPro® |
| Cell capacity | 120ml |
| Sample | The instrument is capable of measurements in a turbid liquid (>250 FTU) |
| Materials in contact with product | PVC and tempered optical glass |
| Internal dehumidification | Silica gel bag |
| Outputs | RS232 - RS485 Ethernet port RJ45 USB port (2) PS2 for external mouse/keyboard |

• Research laboratories

• Food industries laboratories

• Oenologicals laboratories