> SC100i

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 °/0 ° is capable, through its powerful built-in computer μ ITX, 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

Prekos instruments - SC100 GP P 1210 - (Menu)		Digitare una domanda
	DLOR	Analysis System
SC100_GP_P_1210		ANALISE
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relco instruments	The Art of	f Analysing SISTEMA
Via Sabin, 1/A - Pilastrello 43100 Parma - Itały Tel. +39 0521 641780 - Fax +39 0521 643886 web: www.relcoinstruments.com email: info@relcoinstruments.com		SAIR
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SC 100		COLORTEST
DATA 2	6/01/2011 14.47.56 N° ANALISE 1	EVALUACIONES
ESTADO	PRONTO POR ANALISE COLOR	TOTAL ANTHOCYANS
	RECIBO	mg/Kg O CLASS O
000 PRODUCT		ANTHOCYANS LEACHING
0000	PRODUCER	mg/Kg O
SPECTRUM	CROMA	% di AT 0
400 nm 0,0000	520 nm 0,0000 640 nm 0,0000 L 0,0000	LEVEL NONE
420 nm 0,0000	540 nm 0,0000 660 nm 0,0000 a 0,0000	420/520 (Tonality)
440 nm 0,0000 560 nm 0,0000 680 nm 0,0000 b 0,0000		0,0000
460 nm 0,0000	580 nm 0,0000 700 nm 0,0000 C 0,0000	0,0000
480 nm 0,0000 600 nm 0,0000 500 nm 0,0000 620 nm 0,0000		LIMITI EVALUACION MIN 0 MAX 0 LIV1 400 LIV2 700 IN ATTESA
MANUAI	SAMPLE SAMPLE	SAVE SAVE & EXIT
Start 😼 💋 🚱	Menu AMALYSIS	長殿の二三 14-

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





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Technical specifications

Working range	400700 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) Tristimulous (X-Y-Z) Spectral remission Absorbance curve Reflectance
Measuring time	5″
Light source	Krypton lamp with filter
Вох	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 - 5060 Hz. 100VA
Operating temperature	1040 °C
Product temperature	1050 °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 temperated 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