



PAPER TESTING ASSOCIATION

PAPER Testing Equipment



SPECTROPHOTOMETER with software Novicolor

Ref : N5900

For determination of ISO brightness (whiteness), color, color differences, fluorescence and opacity of paper

Application Standards : ISO 2469, 2470, 2471, 3688, 11475, 11476 / TAPPI T519, T525, T527 / DIN 53145bis, 53147, 54500



NOVICOLOR a modern, easy to use and feature rich Color-QC application for paper and Packaging industries and automotive supply chain members. It enables customers to analyze, report, communicate and visualize accurate color QC results. It incorporates the Indices, Tolerance Methods, Graphs and Light sources D65, C, UV ex .
Compatible with the following system software's: Windows 7 / 8
Control and calibration of the device: Light source filtered according D65, C and UV ex level
Administration of the sample and standard library

Sold & serviced by:

OpTest Equipment Inc.

www.optest.com - sales@optest.com - +1-613-632-5169



MODEL	Spectrophotometer with external PC
ILLUMINATION/VIEWING SYSTEM	Reflectance: $d:0^\circ$ (diffuse illumination, 0-degree viewing) Conforms to ISO 2469, JIS P8148, DIN 53145-1 and DIN 53145-2 standards.
LIGHT-RECEIVING ELEMENT	Silicon photodiode array (dual 40 elements)
SPECTRAL SEPARATION DEVICE	Diffraction grating
WAVELENGTH RANGE	360 nm to 740 nm
WAVELENGTH PITCH	10 nm
REFLECTANCE RANGE	0 to 200%; resolution: 0.01%
LIGHT SOURCE	Pulsed xenon lamps ($\times 3$)
MEASUREMENT TIME	Approx. 1.5 seconds (for measurements of fluorescent colors, at 9600 bps)
MINIMUM INTERVAL BETWEEN MEASUREMENTS	Approx. 4 seconds; when reflectance measured, approx. 5 seconds; when fluorescent color
MEASUREMENT/ILLUMINATION AREA	$\varnothing 30 \text{ mm} / \varnothing 34 \text{ mm}$
INTER INSTRUMENT AGREEMENT	Mean $\Delta E^*_{inferior}$ at 0.2 (mean)
REPEATABILITY	Spectral reflectance: Standard deviation within 0.1% Colorimetric values: Standard deviation within $\Delta E^*_{ab} 0.02$ (condition; white calibration plate measured 30 times at 10-second intervals)
TEMPERATURE DRIFT	Spectral reflectance: Within $\pm 0.10\%/^\circ\text{C}$ Color difference: Within $\Delta E^*_{ab} 0.05/^\circ\text{C}$
UV ADJUSTMENT	Instantaneous numerical adjustment
UV CUT FILTER	400 nm cut-off and 420 nm cut-off
CONTROL METHOD	Directly connected to a <u>touch screen computer</u>
INTERFACE	RS-232C format
POWER	100-240V AC 50-60Hz 25W AC (with a dedicated AC adapter)
DIMENSIONS (W \times H \times D)	302 \times 585 \times 335 mm
WEIGHT	18.5 kg
OPERATING TEMPERATURE/HUMIDITY	13 - 33°C, relative humidity 80% or less (at 30°C) with no condensation
STANDARD FOR CALIBRATION	ISO Level IR 3



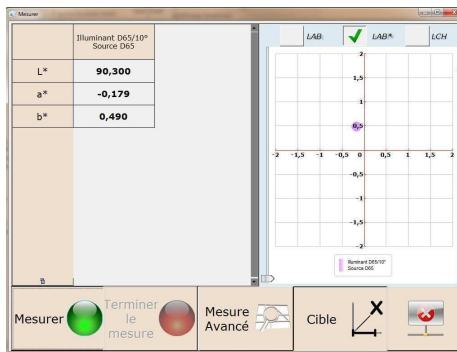
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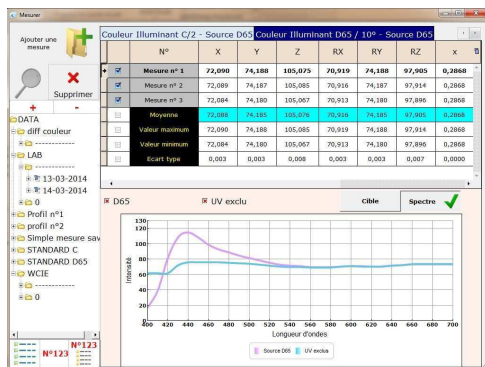
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COLOR / COLOR DIFFERENCE SCALES / TOLERANCES	Absolute and Delta values, dE for CIE XYZ, xyz, L*, a*, b*, C*, h*, u* v*, CIE, Opacity, Fluorescence, etc...
PLOTS/GRAPHICS	CIELab, Trend, Histogram, Chromaticity, interactive zoom function
GENERAL FEATURES	Statistic Std. deviation/mean avg. , descriptors, Configurable Data Grids
MEASUREMENTS	Average measurements, Remote Measurements, Automated calibration timeout, manual Data input
DATABASE FUNCTIONS	Store, retrieve, rename, delete Standards and Batches, Organize Samples in a Folder Structure, Unique Sample Identifiers,
EXPORT/IMPORT	Export to ASCII file, Export result data to EXCEL

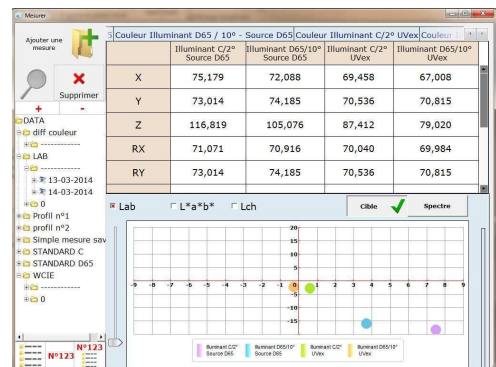
Measure LAB :



Measure :



Metamerism :



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