



PAPER TESTING ASSOCIATION

SPECTROPHOTOMETER with Software Novicolor

Ref: CM3630A

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

Application Standards : ISO 2469, 2470, 2471, 3688, 5631-1, 5631-2, 5631-3, 9416, 11475, 11476, 12625-7, 12625-15 / TAPPI T519, T525, T527 / DIN 53145bis, 53147, 54500





Measure Lab



Metamerism

Measure

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.

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OpTest Equipment Inc.

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



PAPER Testing Equipment

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MODEL: Spectrophotometer with external PC

ILLUMINATION/

VIEWING SYSTEM: Reflectance: d:0° (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 (x 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: Ø 30 mm / Ø 34 mm

INTER INSTRUMENT AGREEMENT: Mean ΔE*inferior at 0.2 (mean)

REPEATABILITY: Spectral reflectance: Standard deviation within 0.1% Colorimetric

values: Standard deviation within ΔE^* inferior at 0.02 (condition; white

calibration plate measured 30 times at 10-second intervals)

TEMPERATURE DRIFT: Spectral reflectance: Within +/- 0.10%/°C Color difference: Within

ΔE*ab 0.05/°C

UV ADJUSTMENT: Instantaneous numerical adjustment 400 nm cut-off and 420 nm cut-off

CONTROL METHOD: Directly connected to a touch screen computer

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

COLOR / COLOR DIFFERENCE

SCALES / TOLERANCES: Measurement of ISO Brightness (R457), WCIE - Color: XYZ,

Rx, Ry, Rz, L,a,b L*, a*, b* L*,C*,h* x,y,Y - ΔE - Color

difference between 2 samples respectively between standard

and sample - Measurement of fluorescence (optical

brighteners)- Opacity - Measurement of Ingede en IE% 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

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