TECHNIDYNE

ColorTouch® PC

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The ColorTouch® PC is designed to meet a wide range of ISO, TAPPI and PAPTAC standards, while providing you the convenience of simple operator interfaces through Windows™ based software. Capable of measuring ISO Brightness, Color, Color Difference, Fluorescence and Opacity. The ColorTouch® PC provides you a powerful tool to manage your optical properties.

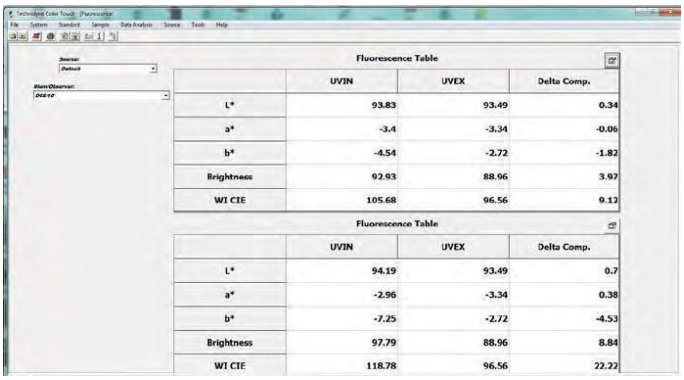
The ColorTouch® PC is driven by a powerful software package that provides the operator or management the ultimate flexibility to develop and design specific operational presentations which are exactly what their testing requires. The Designer function of the software will allow for the creation of measurement presentations and functions. Additionally, the ColorTouch® PC provides extensive capabilities for analyzing data from several different measurements and evaluating historical trends.

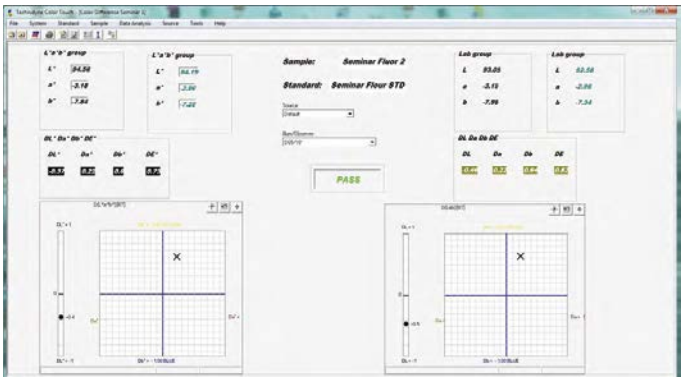
INDUSTRIAL PHYSICS

Protecting
Product Integrity

Technidyne ColorTouch® PC:

When making decisions on whether a product meets customer specifications, the need to have all the data to evaluate the product is necessary. The ColorTouch® PC provides capabilities far beyond color evaluation.





Designed to be your QC instrument measuring:

- ISO Brightness
- Whiteness/Tint/Yellowness
- Color Space
- Color Difference
- Fluorescent Component of Brightness, Color and Whiteness
- Opacity

Meeting ISO and other industry standards

- Diffuse Illumination / O° Viewing d/O° Geometry ISO 2469, 2470, 2471, 3688, 5631, 9416, 11475, 11476, 12625, 22891, TAPPI T519, T525, T527, T534, T560, PAPTAC E.2, E.5

Features

- One touch operation
- Presentation Designer to build test sequences for your application
- Optional Aperture Configurations Available
- Automated Calibration w/Swing-In "working" standard
- Exact conformance to international standards, including ISO ISO standards

Technical Specification:

Industry Standardization Paper/Tissue/Board

ISO Standards	2469, 2470, 2471, 3688, 5631, 9416, 11475, 11476, 12625, 22891
TAPPI Standards	T519, T525, T527, T534, T560
PAPTAC Standards:	E.2, E.5
Sample Types	• Letter • A4 Sheets • Sheeted Materials • Handsheets • Tissue • Towels • Powder/Minerals (pressed pellet)
Sample Thickness Range	0 to 40,000µm
Geometry	Dual Beam d/0°
Specimen Area Measured	28 +/- 3mm
w/Optional Apertures	15mm & 7.5mm
Specimen Aperture	34 +/- 0.5mm
Optional Apertures	15.8mm & 7.8mm
Light Source	Pulsed Xenon
Lamp Life (# of measurements)	+500,000
Detector	Scanning Silicone Diode Array
Spectrometer Range	400 to 700nm
Bandpass	10nm
Calibration	Traceable to NRC
Measurement Range	0-200% (Reflectance)
UV Sources	D65, C, UV-EX, UV1*, UV2*
Automatic UV Control	Auto-adjustment to calibrated sources
UV Filters	UV Trim 395nm/ UV Cut-off 420nm

Observers	CIE 2°, 10°
Illuminants	C, D65, A, B, D50, D55, D75, F2, F7, F11
Photometric Nonlinearity	0.1%
Repeatability (White tile avg. 20 readings)	< 0.01 CIELAB DE
Reproducibility (Interinstrument)	<0.20 CIELAB DE
Automated (Quick Cal)	Yes (Internal Working Standard)
Automated Calibration (Primary)	Yes** (Auto Data Entry via USB)
Measurement Time	4 to 10 seconds (measurement dependent)
Measurement Results	• Brightness (ISO) • Opacity • Whiteness (CIE, Hunter, ASTM, Berger, Stephensen, Stensby) • Yellowness (ASTM Hunter) • Tint (CIE, Hunter) • Color (XYZ/Rx,Ry,Rz/ L,a,b/ L*,a*,b* /L*,C*,h/ DWL,PUR,x,y,Y) • Color Difference • Fluorescence • Metamerism • Spectral Data – Wavelengths 400 to 700nm
Reflectance Intervals	1nm, 5nm, 10nm, 20nm
Statistics	• Average • Maximum Test Value • Minimum Test Value • Standard Deviation
Data Results Database	Yes

*User Defined
**When using Technidyne Laboratory Calibration Standards

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Data Views	• Tabular • Color Space Plots • Spectral Curves
Pass/Fail Alerts	Yes (User Defined Specifications)
Stored Standards	Yes
Data Tolerancing	Yes
Data Communications /Ports	• CSV • Serial • USB • Ethernet • RS232
Presentation Designer	Yes (Drag and Drop Presentation Builder)
User Interface	• ColorTouch® PC • Windows Software (Windows Compatible Software)
Recommended Operating Temp.	10-32° Celsius (50-90° F)
Power Consumption	200 watt max / 80 watts passive
Voltage/Frequency Requirement	100-250VAC / 48-61 Hz

Weights & Dimensions

Depth	35.6 cm (14 in.)
Width	27.9 cm (11 in.)
Height	43.2 cm (17 in.)
Weight	15.4 kg (34 lbs)
Country of Origin	U.S.A.

Contact Details

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