



Introducing the newest addition to the TAPPI Brightness and Color 45°/0° team



Simple - Accurate - Flexible - Powerful

The COLORTOUCH™ X 45 - the only directional 45°/0° TAPPI Brightness and Color spectrophotometer designed specifically for the pulp and paper industry.

Since the beginning of Technidyne we have been the primary provider of TAPPI directional Brightness and color instrumentation for the paper industry. With the introduction of the ColorTouch™ X 45 Spectrophotometer we mark a new day for this measurement. Here are some of the benefits that will improve your QC program:

- Improved stability, especially on OBA containing grades
- Longer lamp life, meaning fewer lamp changes and lower operational cost
- Touchscreen interface provides simple testing sequences
- Quicker testing time, getting data to production sooner
- Full spectral data (360-780nm) for detailed analysis
- Enhanced result screens provide statistical data, trending and other functions
- Capable of measuring the sample under multiple UV levels including **UVex, QTH, C & D65**
- Data export can be directly to the mill network, uploaded to a USB drive or printed
- Color Difference and data tolerancing

Touchscreen Operation

- Load sample, initiate the test and the ColorTouch™ X45 does the rest
- Preprogrammed test routine to allow for easy set-up and testing
- Does not require an external PC
- Automatic Calibration

Advanced Data Analysis

- Trending data allows for tracking grades over several samples
- Compare multiple samples on various color plots
- Establish optical tolerances on grades for PASS/FAIL analysis

Spectral Data Capabilities

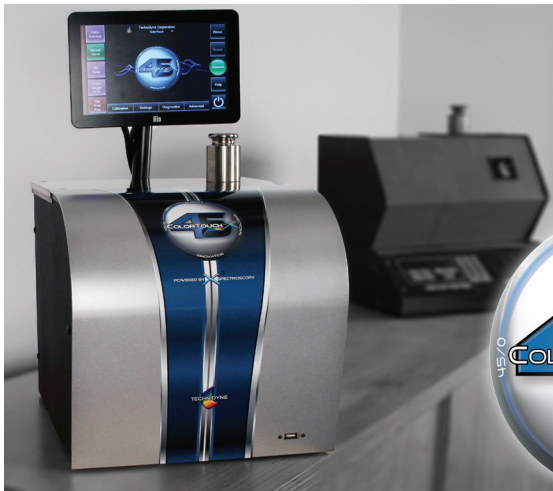
- Spectrophotometric data for comprehensive understanding of dyes, fillers, OBA's and other colorants
- Greater accuracy of colorimetric data
- Thorough analysis of metameric color matches

Pulsed Xenon Flash Lamp

- Eliminates having to change the lamp every 3 months
- Adjustable UV energy to more effectively control OBA dosage

The ColorTouch™ X 45 is a member of the ColorTouch™ X family

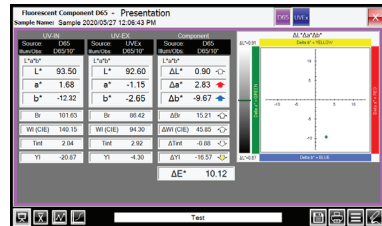




TAPPI Brightness
has never been more
powerful.

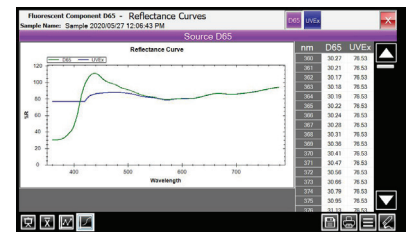
Unmatched Fluorescence Control:

The Technidyne ColorTouch™ X 45 offers 3 UV included sources **D65(UV Rich)**, **C (ISO UV level)** and **QTH (TAPPI Brightness level)** and 1 UV excluded source, providing the fluorescence evaluation sources needed to best control OBA dosage and maximize TAPPI Brightness values.



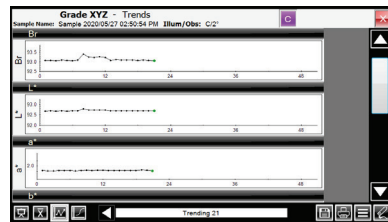
Expanded Wavelength Range:

The Technidyne ColorTouch™ X 45 provides improved analysis of UV region and detailed color evaluation.



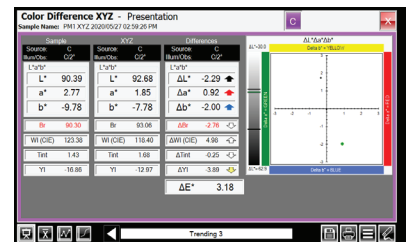
Data Trending:

The Technidyne ColorTouch™ X 45 provides the trending capabilities to look at grade data of key optical measurements for up to 100 test.



Pass/Fail Alerts:

The Technidyne ColorTouch™ X 45 allows you to input tolerancing data on Brightness and Color data so that the instrument automatically provides feedback on whether a product matches the production standard.



Easy of Operation:

At the heart of the ColorTouch™ X 45 is an operator interface built to provide testers with predefined test operations to assure proper testing, while providing management the detail needed to make good decisions





Parameter	Specification
Light Source	Pulsed Xenon (500,000+ measurements)
Instrument Type	dual-beam spectrophotometer
Geometry	45°/0° directional
Repeatability (White tile avg. 20 readings)	0.1%
Reproducibility	<0.20 CIE Lab
Measurement Range (Reflectance)	0-200%
Sources	D65, C, QTH, UVex
Illuminants	A,B,C,D50,D55,D65,D75,F2,F7,F11
Observers	CIE 2°, 10°
Wavelength Range	360 -780 nm
Aperture	13 mm illuminated / 9 mm measured
Whiteness	CIE, ASTM, Hunter
Fluorescence	D65, C, QTH, UVex
Automatic UV Control	Automatic UV control and calibration for measurement of fluorescent samples with UV trim filter (395nm) and UV cut-off filter (420) nm
Stored Standards	YES
Communications	USB, Ethernet
Color Space	(XYZ) (RxRyRz) (Lab) (L*a*b*) (LCh)
Measurement Time	2 seconds
Industry Standards	TAPPI T452, T527, T524, T646, T560
Operating Range	13-40° Celsius
Weight	45 lbs / 20.4 kg
Height	24" / 61 cm

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