

Simple.

Accurate.

Flexible.

Powerful.

Color Touch 2
MODEL 150
SPECTROPHOTOMETER



Color Touch 2 will take your quality control program to new levels of excellence.

The innovative Color Touch 2 spectrophotometer is the fastest, most productive and accurate way to measure the optical properties of pulp and paper. It provides a wide range of measurements — including Brightness, Color, Color Difference, Fluorescence, Opacity, Whiteness, Tint, and now, Effective Residual Ink Concentration (ERIC) — simply, accurately, and with amazing speed. The Color Touch has been designed by Technidyne, the leading manufacturer of optical properties measuring instrumentation for the pulp and paper industry. The Color Touch 2 conforms precisely to ISO optical standards.

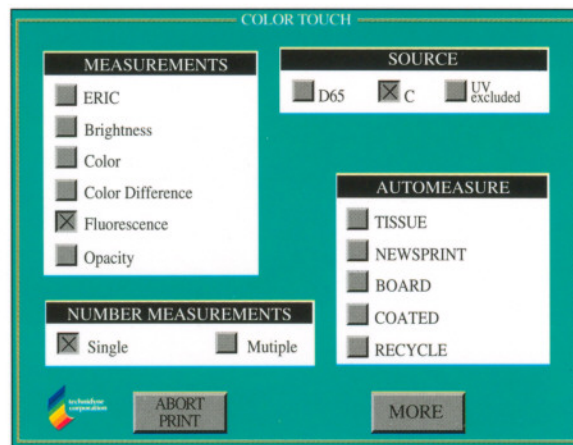
Color Touch, the first touch screen spectrophotometer designed specifically for the pulp and paper industry, now offers optional ERIC 950 capability, a great advantage when working with recycled materials.



Simplicity

Although it provides detailed, accurate, and sophisticated measurements, Color Touch is extremely user friendly. It doesn't use a keyboard. Knowledge of computers is not required. And no decisions need be left to the operator.

- Operators simply point, touch, and let Color Touch do the rest.
- The Color Touch recalibrates at regular intervals, eliminating the need for operator adjustments or additional calibration.
- Complicated measurement sequences may be pre-programmed by a supervisor and assigned to a single, on-screen button.
- The menu key appears on all screens. Touching the menu key returns you to the main menu immediately.
- Optional ERIC capabilities provide high speed analysis of residual ink.



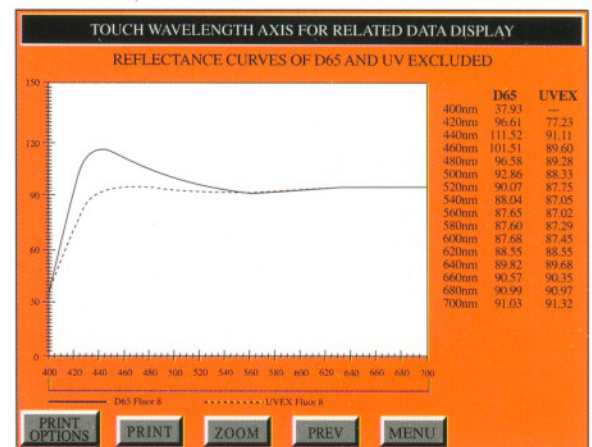
Accuracy

State of the art halographic grating and scanned array technology provide unsurpassed accuracy and repeatability in even the harshest environments. The very simplicity of Color Touch contributes to the accuracy of its measurements by eliminating complicated routines and opportunities for human error. The following innovative features assure you of reliable results.

- **Automeasure**
This pre-programmable, password protected feature virtually ends operator error. It also ensures that the same tests are run under the same conditions for consistent, reliable results.
- **Automatic calibration**
Eliminates the need for manual calibration. Primary calibration, including UV level settings is handled automatically. Insert the calibration diskette

and the Color Touch software will do the rest. It is seldom required, however, because Color Touch frequently recalibrates itself to a built-in standard to provide long term stability. Instrument drift is prevented and daily calibration is no longer needed.

- **Diagnostics** - A full compliment of diagnostic routines alert you to any problems with the instrument.
- **ISO Standards**
Color Touch conforms to precise ISO optical standards and a wide range of global national standards.



Powerful and Flexible Software

With Color Touch, you get a single instrument that lets you measure and analyze key parameters in a variety of formats.

- Single measurements, or any combination of multiple measurements may be performed. You get the information you need, exactly as you need it, almost instantaneously.
- Powerful capabilities include 6 color scales, 3 light sources, 10 standard illuminants and 2 standard observers.
- The hard drive stores thousands of reference standards in ten different groups for easy access. You may organize them in whatever way serves you best.
- A touch of the screen provides instant translation of all screens into one of several languages.
- Measurement results (including graphics) may be displayed on the flat panel touch screen or on an external printer.
- The RS232 communications port enables you to send all data to a separate system or personal computer for further examination or manipulation of information.
- Optional bar code reading capability.

The screenshot displays the Color Touch software interface with several menu sections:

- COLOR SYSTEMS:** Includes options for XYZ, Lab, L*a*b* (selected), L*C*abhab, DWL, PUR, x,y,V, and RxyRz.
- ILLUMINANTS:** Includes options for A, B, C, D50, D55, D65 (selected), D75, F2, F7, and F11.
- DISPLAY OPTIONS:** Includes checkboxes for Brightness (selected), HUN W1,Y1, CIE W1, tint, Intermediate Results, Averages, Std. Devs., and Highs,Lows. It also features a Reflectance Data Interval section with options for 1nm, 5nm, 10nm, and 20nm.
- OBSERVERS:** Includes options for 2° and 10°.
- An **OKAY** button is located at the bottom right of the interface.

Technical Expertise

Color Touch is supported by all the resources of Technidyne Corporation, which has been serving the pulp and paper industry with innovation and leadership since 1974. We are dedicated to providing the pulp and paper industry in general, and each of our customers in particular, with the finest products and service, and technically sound information.



Optical Properties

Color Touch 2 provides complete information for evaluating optical properties of pulp and paper. Detailed and advanced data on each of the following are available in a variety of formats and display options.

- ISO Brightness
- ISO Color and Color Difference, including Whiteness, Tint, Yellowness and Metamerism
- ISO Fluorescence
- ISO Opacity, Scattering and Absorption
- TAPPI Effective Residual Ink Concentration (ERIC)