



# ESWin Software

Simplified Statistical Process Control in the Lab and on the Production Line

## Catch Color Errors Early for Less Waste and Higher Product Quality

ESWin software connects with X-Rite inline spectrophotometers to display and store the color of measured products. It displays color measurement data in an easy-to-interpret graphic format that includes the direction of the color deviation so operators can identify current or emerging problems and quickly correct them with a few clicks of a button.

## Make Quick, Educated Changes Within Run and Between Production Lots

ESWin software can be used in the laboratory (ESWin Lab) as well as for inline color measurement (ESWin QC) and automatic closed loop color control (ESWin CLCC). When used together, all software packages use the same absolute standard values on the line and in the lab. When different geometries are in use, the measurements are then adapted to the laboratory system to achieve the same readings.

## ESWin QC: Inline Quality Control Software

ESWin QC connects with X-Rite inline spectrophotometers to manage color in many industries, including paper, textiles, plastics, and more.

- Controls the inline device to take color measurements on the production line.
- Displays up to 8 trends per machine and plot color in the CIELAB system. Can include  $\Delta L^*$ ,  $\Delta a^*$ ,  $\Delta b^*$ ,  $\Delta WCI E$  UV incl.  $\Delta WISO$  UV excl.,  $\Delta Opacity$  plus RGB color and reflectance curve for standard and measurement.
- Can control a traversing beam to measure left – middle – right and separately.
- Builds multiple profiles to define measurement tasks and parameters, like type of instrument, number of averages, measure with or without UV, how to display measurement values, etc.
- When hooked up to a stack light, can display whether the current production is in specs (green) marginal (yellow) or out of tolerance (red).
- Works as a standalone system or can be connected to a Data Control System to generate reports, manage data, and archive instrument diagnostics for improved operational management.

## ESWin CLCC: Closed Loop Color Control at the Production Machine

ESWin CLCC includes all features of ESWin QC, plus a machine-based algorithm to adjust color variations in production.

- Controls the inline device to take color measurements on the production line and makes automatic changes if color starts to shift.
- Jobs are predefined by an administrator; the operator just selects the color for the next production if not connected to a DCS.
- Can be set for automatic startup and shade changes for up to 3 dyes and an OBA. Uses a calculation algorithm to control colorant addition at the beginning of the process to minimize deviations to the target color for cost efficient production.
- Removes guesswork by precisely calculating each color change and automatically adjusting dyes so the deviation between actual color and target will be in tolerance after three control steps.
- Dye consumption is documented for every reel, hour, shift, and day for easy cost calculations.
- Can either connect directly to dosing pumps or communicates to the DCS system, which forwards the set values for the pumps to the DCS and receives the actual values for further calculations.



## Service Support and Warranty

Drawing on our extensive experience in the world of color, X-Rite Pantone offers the right level of services, onsite and online, to support and nurture your business. Call on us for standard color services and training, or work with us to tailor training and services to your specific needs. We help you get color right the first time, right every time. For more information about extended support options, visit [www.xrite.com/extended-warranties-services](http://www.xrite.com/extended-warranties-services).

For more information about ESWin software, please visit <https://go.xrite.com/eswin-qc>.