



X-Color QC
Color Measurement and System Control

**The Key to
Modern Color Management**





The One Solution For Color Quality Control

Organize and control color data for all types of surfaces, materials, and coatings in a single, flexible platform with X-Color QC, a new generation of color management technology from X-Rite.

X-Color QC gives you the freedom to efficiently control color quality while reducing the margin for error. No need for separate systems. No need to try and patch different programs together. No need to continually reset instruments and product color palettes for each user. X-Color QC lets you take control, including security and data access, all in one, convenient program.

The Power of X:

A Software Platform That Gets the Details Right

X-Color QC is built on revolutionary xDNA (X-Rite Dynamic Numerical Analysis) technology, a proprietary architecture that brings the finer points of color QC into focus. This ensures that color data is not only accurate and complete, but available in an easy-to-follow format for those who need it. With X-Color QC, you immediately gain the following advantages:

- Process and workflow simplification – users with little training can perform color collection and analysis
- Flexibility, allowing users to make comparisons of data, view information, and make relationships with data in whatever manner they require
- Control modern complex colors in the laboratory, in production, and throughout the supply chain
- Manage increasing larger volumes of data coupled with the ability to easily select data and drill down for detailed analysis
- Establishment and control of tight tolerances, as well as capability to construct tolerances using colorimetric values, indices, or industry specific standards
- Identify the impact on appearance from recipe, process, and batch



The Power To Manage Efficiently

Because it is essential to control modern complex colors in the laboratory, in production, and throughout the supply chain, color programs must be as flexible as they are accurate. Without this option, color data management often becomes unwieldy. Processes and programs are held up waiting for data or analysis. Time is lost and customers are placed at risk. X-Color QC supports a variety of database formats and features built-in flexibility to expedite color analysis and streamline reporting and data management:

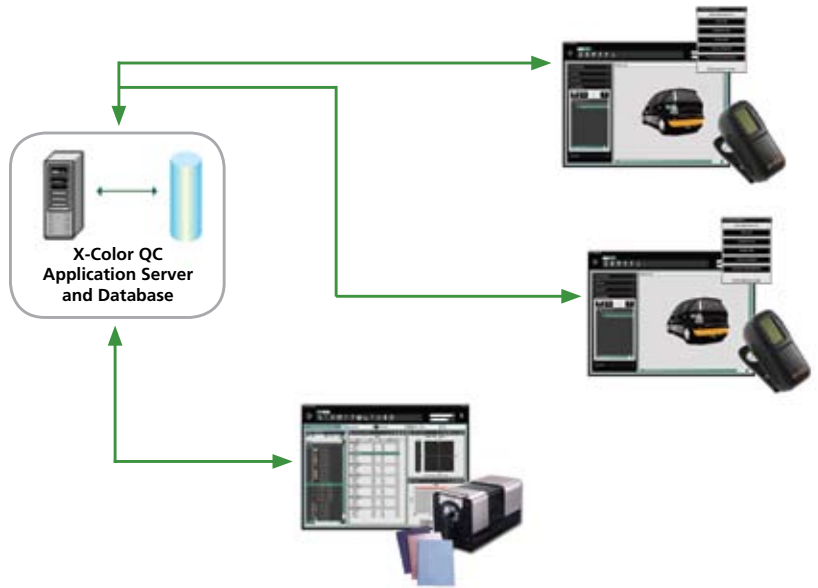
- Gain full reporting and graphing for thorough analysis
- Enhanced on-screen appearance rendering for clear color footprint
- Create desktops tailored to specific user requirements
- Develop software configurations for specific customer processes
- Produce custom-tailored screen configurations to automate routine functions
- Switch specific display properties for in-depth analysis without affecting overall system settings
- Maintain data from multiple instrument geometries in a single database
- Manage data by user or function



The Power To Stay Connected

Most current color QC systems need to operate within a network and with information that needs to be shared and distributed among a variety of users, often in discrete formats. The challenge is to consistently meet these requirements while maintaining control over data and user rights. X-Color QC offers solutions that allow any number of locations to easily communicate and share data. Advantages include:

- Supervisory control over user rights and permissions
- Supervisor-directed ability to hide controls and functions for specific users
- Access management over a global database
- Display settings controlled globally or locally
- Display area viewing in a variety of user-directed formats



System and User Friendly

The value of any QC system is its ability to simplify process and workflow while producing precise, repeatable measurements. X-Color QC is a finely tuned program that makes it easy for anyone to perform color collection and analysis. Users with little training or experience can quickly understand and work with the software. In addition, a QC system can be structured to accommodate specific product and operator requirements. X-Color QC provides this flexibility through the:

- Ability to compare data, view information, and make relationships with data in any manner or form needed
- Grouping of menu and toolbar commands into logical blocks and tabular arrangements that eliminate disruptive, crowded screens
- Tabbed toolbars that allow for quick access to only those features that relate to a specific object
- Sequential modeling of jobs and procedures that provide step-by-step direction and automate routine processes to reduce errors
- Simple programming procedure to create standards and samples
- Availability of pop-up views for performing quick color analysis

Compatible With the Following Instruments and Systems

Even though it is a proprietary program, X-Color QC is tailored to work with standard measurement instruments and database formats. This includes:

- Enterprise Level operation that uses a true web service/ open source architecture for the optimum convenience
- Connections to distributed/network database not limited to VPN
- Elimination of need for proprietary network protocols, such as Citrix, thereby reducing implementation costs
- Support of a variety of database formats: Derby [default], MySQL, Microsoft SQL
- Centralized control and management for customers who produce at different physical locations





General

Configurable Displays using View Sets
 Custom Calculations
 Document Driven Workflows using CxF
 Interactive Plots and Graphs
 Password Protect Key Functions
 Enterprise Edition
 Standard and Sample Traceability
 Automatic Data Associations
 Data Import and Export Functionality
 Support for Multiple Instrument Geometries
 Master Panels
 Color Communication using CxF
 NetProfiler Enabled
 Context Sensitive Help
 Multi-Language Capability [English, French, Italian, German, Portuguese, Spanish, Japanese, Chinese]

Networkable Database

Configurable Data Organization
 Configurable Access Rights and Permissions
 Database Filters

Job Driven Process Automation

Programmable Jobs
 Graphical Job Builder with Measurement Point Images
 Job Function for Handheld Spectrophotometers
 Analysis View

Data Tagging

Text-based Dynamic Tags
 Numeric Tags
 Predefined Tags
 Color Coded Tag Plots and Trend Charts
Global and Local Tolerances for Standards and Data Groups
 Colorimetric
 Indices
 User Defined

Reports

Standard [Complete, Multiple Sample, Reflectance, Sample, Sample Set]
 Custom Reports
 Spreadsheet Style Reports [fully customizable]

Display Types

Color Navigation Pane
 LAB Plot
 FMC2 Plot
 Spectral Data
 Spectral Plot
 Spectral Overlay
 Color Data / Delta Color Data
 Multi-Angle Color Data
 Color Travel
 Trend
 Multi-Angle Trend
 Composite Trend
 Automotive Trend
 Appearance Factors
 Angular Dependency
 Status Density
 Visual Color
 Standard / Sample Properties
 Quick Compare
 xDNA QA
 xDNA Data
 xDNA Color Travel
 xDNA Trend

xDNA

Appearance Attributes [SI, dSI, IL, dIL]
 Appearance Factors Calculated [Process, Batch, Recipe]
 Appearance Factors Percentages [Process, Batch, Recipe]
 dDNA
 dF
 dG
 xDNA

Color Calculations

APHA
 B-Depth
 Brightness [TAPPI452 dB, TAPPI452 B]
 Custom Calculations
 DE' 06
 DE' 96
 <DE*>
 DE
 DE*
 DE00
 DE94
 DE99
 Decmc [Decmc, DLc, DCc, DHc]
 DEfmc2 [DEfmc2, DLfmc2, DCcrg, Dhcyb]
 DIN6172
 DIN6175[Dec, Dep, Deeff]
 Flop Index [FI, dFI]
 Haze [Haze, dHaze]
 L*a*b* [Absolute, Delta]
 Lab [Absolute, Delta]
 L*C*H* [Absolute, Delta]
 Metamerism Index
 Opacity [Opacity, dOpacity]
 Strength [Apparent, Chromatic, Tristimulus]
 Textile Indices [Stain, Color, Shade]
 Tint [E313 98 T, E313 98 dT, Ganz-Griesser T, Ganz-Griesser dT]
 E313 98 dT
 Tristimulus [Absolute, Delta]
 Weighted CIE L*a*b*
 Weighted CIE L*C*H*
 Whiteness [E313 W, E313 dW, E313 98 W, E313 98 dW, Ganz W, Ganz dW]
 Yellowness [D1925 Y, D1925 dY, E313 Y, E313 dY, E313 98 Y, E313 98 dY]
 Illuminants: A, C, D50, D55, D65, D75, F2, F7, F11, F12
 Observers: 2°, 10°

Minimum Client System Requirements

- Operating System Microsoft windows XP Professional (Service Pack 2) or Windows Vista Business
- x86 Family of Processors (Intel Pentium III, Intel Pentium IV, AMD Athlon, etc.)
- 2 GB of RAM (3 MB or more recommended)
- 32 MB dedicated graphics memory
- Screen resolution of 1024 x 678 or higher

Supported Instruments:

- MA98, MA96, MA94, MA68II
- Color i7, Color i5
- SP62, SP64
- 939, 962, 964
- VS450

X-RITE WORLD HEADQUARTERS

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