

## Color Formulation and Batch Correction Software for the Textile Dyeing Mills

纺织印染厂专用的超级配色和颜色修正软件。



“Right-at-first-time” is a realistic goal with TopDye  
超级配色软件可在第一时间进行靶向配色。

# TOPDYE



**TopDye is the second generation Color Matching software of ICS aimed at formulating new colors and correcting batches for exhaust and continuous dyeing.**

**TopDye is the best tool for the digital control of color reproduction, that computes the best recipe with the least number of trials. It boosts the production rate and outcomes, being a must-have for any dyeing mill. Its advanced mathematical architecture includes the most recent developments of computation theory, as well as the best algorithms for solving min-max problems.**



**超级配色软件TOPDYE是ICS公司第二代电脑配色软件，针对浸染和连续染色开发出新的颜色计算和批量修正公式。**

**超级配色软件TOPDYE是控制颜色再生产的数字化工具，可提供最佳配方和最少的试验次数。对所有类型的染厂来说它都能提高生产效率。它先进的数学计算体系囊括了最新研发的计算原理，这些计算方法可以解决所有颜色问题。**

## EFFICIENCY

The accurate predictive capability of **TopDye** takes advantage from the efficient characterization of each dyestuff in terms of scattering and absorption coefficients.

A minimal set of lab trials (5 concentrations) is required for assessing the relative strength of each dyestuff and estimating their re-emission factor.

## 高性能

TOPDYE准确的预测能力其优势为可对每个染料的光谱曲线做出有效的描述。

每只染料通过只有5个浓度点来确定其光学特性，建立实验室的配色数据库。

## SIMPLICITY

**TopDye** is a multi-platform tool for satisfying any need of intense dyelab activity. It is the perfect aider for Quality Control, Formulation and Batch Correction.

Thanks to its user-friendly design, TopDye can be fruitfully utilized by non-skilled users.

## 操作简便

TOPDYE是一个多平台操作工具，可满足染色实验室的任何需求。它是颜色质量控制、配方和修正的理想助手。

得益于其友好的界面设计，即使最不熟练的人都可以操作。

## INTEGRABILITY

**TopDye** can automatically import colorant data-base from third-party system and dye-house.

It can transfer recipe to ICS DOSOR-X dyestuff dispenser and other colorant dispensing units.

It can communicate with those spectrophotometers commonly utilised in dyelab for color estimation.

## 可兼容性

TOPDYE可以自动引入第三方系统和染料商的染料数据。

它可以传送配方给ICS公司的滴液机，也可以兼容其他厂家生产的滴液机。

它可以连接那些通用的分光光度计来进行染色实验室的颜色评定。





## QUALITY CONTROL

- Computation of chromatic difference according to the last CIE directives by selecting color space, illuminant source, and observer function.
- Outcomes are displayed, printed or exported to make data exchange easier.
- A plot batch can be defined to display chromatic difference between a standard and various associated batches.
- A special function to trace the color change of the same substrate of different lots (lot-formation).
- A Special function for measuring the color differences for the Centre Selvedge (Cimosse).
- A Special function for measuring the color of liquid.
- A special function for measuring color of one yarn.

## FORMULATION

- It finds the best recipe according to various criteria such as price, metamerism, solidity, and it accommodates substrate reflectance including fluorescent sample.
- Formulation can include up to 6 different dyestuffs.
- Chromatic coordinates (L,a,b or L,C,h) can be inputted for accurate prediction.
- Color search functions and historical database of recipes are available.
- Formulation of yarn and flock.

## CORRECTION

- Efficient correction algorithm: 2 correction steps are on average sufficient to achieve the final shade.
- Correction can be applied to batch production, too.



## 质量控制。

- 不同色彩的计算按照最终CIE规定的色空间，光源和视觉功能。系统出示的结果方便了印花或出口数据的交流。
- 一组批样的绘图可以划分标样和仿样之间不同的色向分组。
- 专门记录在同一基底上不同批次颜色的变化的功能。
- 专门测量布边/布中心的色差的功能。
- 专门测量液体颜色的功能。
- 专门测量单根纱的功能。

## 配方计算

- 它可获得最佳配方数据，如价格、同色异谱、色牢度和调节基底反射系数，包括荧光样品。
- 配方计算可包含6种染料。
- 通过引入色空间坐标(L,a,b or L,C,h)数据，可准确预测色差。
- 通过查找历史数据可获得有效的颜色配方。
- 单根纱及毛绒的配方计算

## 修正功能

- 强大的修正计算功能：两次修正就可达到目标色。
- 也可用于大生产修正。





## MAIN ADVANTAGES

Faster time-to-market

Improved productivity

Reduced management costs



## 主要优势

迅速反馈市场

提高生产率

降低管理成本



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