

System Requirements.

Operating System: MS Windows 98 or later, MS Windows 2000 or later.  
Processor: Pentium III 450 MHZ or faster.  
RAM: 128MB (256 MB recommended).  
Hard Disk: 100 MB available disk space (recommended).  
Monitor: SVGA or better with 24 bit color support and with minimum resolution of 1024 x 768 pixels.  
Printer: Any MS Windows compatible printer.

Specifications.

Illuminants.

A, B, C, D55, D65, D75, Custom illuminants, etc.

Color Coordinate representation.

CIE L\*a\*b\*  
CIE L\*C\*H\*  
CIE XYZ  
CIE xyY

Color Difference formulae.

CIE L\*a\*b\*  
CIE 94 (l:c)  
CIE 2000 (l:c)  
ANLAB40  
FMCII  
CMC (l:c)  
BFD (l:c)  
HunterLAB

Pass/Fail.

Delta E\*(any of the above color difference formula),  
Delta L\*, Delta C\*, Delta H\*, Delta a\*, Delta b\*,  
Customer specific tolerance, Metameric Index

Shade Sort.

555 sorting  
CCC

Observer.

CIE standard observer 2° and 10°

Color Management.

Kothari Colorist™ is an ICC aware color managed application. Monitor calibration is possible using Kothari Colorist™.

\*Available in selected editions.

For further details contact.

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Indices.

Whiteness: CIE Whiteness (with tint)  
Ganz-Griesser (with tint)  
Stephanson  
Harrison  
Hunter  
Stensby  
Berger (1959)  
Taube

Yellowness:

ASTM D1925-70 & ASTM E313-73

Fastness: Staining (ISO 105 part A04)  
Color change (ISO 105 part A05)

Color Strength.

Weighted K/S  
Integrated K/S  
Max. Absorption wavelength  
User specified wavelength

Recipe Prediction.

1-6 colorant match  
Metamerism minimization  
Automatic/Manual prediction

Dye Analysis.\*

Tool for the analysis of your inventory, with the help of color gamut visualization of dyes.

Colorist Reader.\*\*

Enhance communication with your customers by sending quality control analysis files which can be viewed with freeware Colorist Reader.

\*\* Readily available for download from our website  
www.kothariinfotech.com

Agent place your stamp here.

visit us at www.kothariinfotech.com

Specifications subject to change without notice.



**KothariColorist™** V 1.0  
(For Textiles)

Recipe Prediction  
Quality Control  
Redyeing  
Waste Paste Utilization  
Gamut modeling  
and more...

{ Innovation in Coloring }



# Introducing Kothari Colorist v1.0, a complete solution for your color formulation and quality control needs.

Traditional dyeing and color matching process have never been easy. Changing supplier and customer requirements, increasing demands for exact shades, increasingly smaller lots of production resulting in more shades to match and all this coupled with human inspection error makes the job very difficult. Empowered with highly sophisticated tools and methods just right for such situations, Kothari Colorist™ makes your job easy, fast, accurate and economical.

...finally a tool,  
with a  
simplified  
workflow.

Colorist is not a collection of programs which are patched together to create a textile formulation software, but a tool designed from scratch with textile colorist in mind. Simplified workflow and intuitive interfaces make the process very simple. Also you will never need to jump from one program to another to do your task. Follow your own workflow with the software.

Higher productivity  
Lower costs  
Better quality  
Intelligent decisions

## Work the way you want...

Colorist is a highly flexible tool to work with. It does not force any workflow on you, but rather adapts to your workflow. **With its intuitive interfaces, Colorist takes itself to a new level of user delight.** You can save even your unfinished sessions and come back to begin from where you left. Above all with necessary visualization at every stage, Colorist makes it all very simple.

Colorist removes the unnecessary steps that were mandatory in traditional softwares. No more hassles of transferring data back and forth and understanding complex operating mechanisms. Break all the barriers with Colorist and focus on task.

... all this with minimal learning curve.

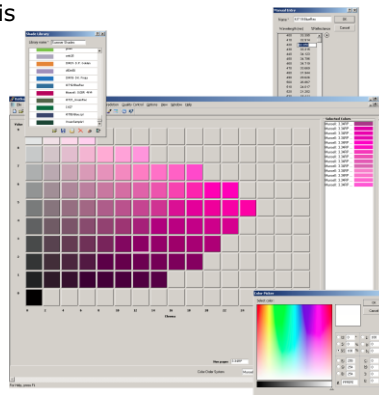
Choose from an array of techniques to take the input. This includes the traditional ways such as

1. Measuring color by spectrophotometer or colorimeter.
2. Selecting color from prepared shade libraries.
3. Giving manual entry in the form of reflectance or K/S values.

as well as new innovative ways such as

1. Select color by color picker to have tighter integration with your CAD system.
2. Choose colors from various color order system like Munsell and DIN.

## Expand your spectrum...



## Innovative recipe formulation

Cut your cost, save labor, reduce lab to bulk trials, speed customer orders and much more all with almost no efforts. At each step have more accuracy and flexibility than ever before.

### ...find perfect match

1. Advance ways of modeling the non linear buildup of dye behavior.
2. Get recipe for a combination of 1-6 colorants, that match under different chosen illuminants.
3. Advance ways to model variations in dyes and substrates, so that you can predict recipes for different substrates/blends using dyes that are different from the standards used to prepare the calibration dyeings.
4. Predict recipes for both dyeing and printing process.
5. For blends or pure substrate.

### ...gain flexibility in formulation

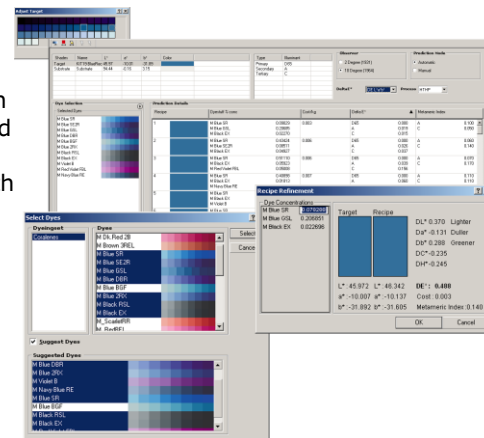
1. Adjust the target to the tint that you are actually looking for.
2. Software *automatically suggests the colorants* from the dyeing set, that you can choose to predict the recipe. An innovation that makes the match prediction a child play.
3. Another unique feature is presented as manual match, where you can begin with any recipe and then fine tune it. You can visualize the changes happening immediately. *A powerful tool to tweak with recipes to check their robustness.*

### ...Pragmatic corrections

1. Do lab or bulk corrections either manually or automatically.
2. Scroll through the history of corrections and choose the best one.

### ...Better shop floor control

1. Use calibration dyeings prepared for one type of substrate for match prediction on different but similar substrate with substrate variability feature.
2. Manage your batches easily and effectively with its *batch management database feature*.

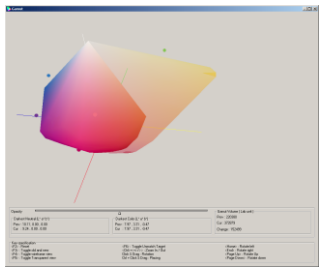


## Tool with a business focus...

Optimize your inventories with another innovative tool which we call *Dye analyzer*. Before adding any dye to your inventory, see how this addition is going to benefit you?

Color gamut visualization of dyes and cost benefit analysis are the tools precisely built to aid to your decision.

Instantly you get an idea of the region of color gamut expansion if there is any. You also get to know what new range of shades you can match now that were not possible before.



## Quality control...

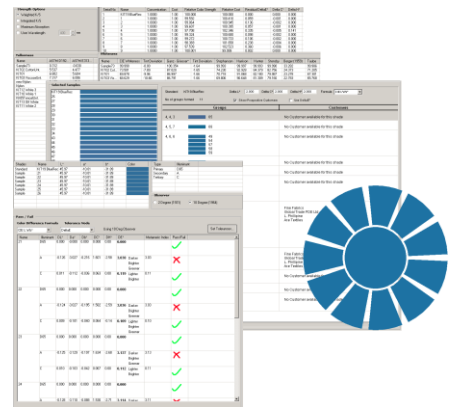
Get a competitive edge, reach market faster using precise and effortless quality control.

### ...fast, effective and accurate

1. Compare color differences of samples.
2. Get quantified data for whiteness, yellowness and fastness of your samples.
3. Evaluate colorant strength and residual color difference.

### ...accelerate your decision making process

1. Set pass/fail tolerances according to customer.
2. Sort the batches to gain more profitability in spite of batch variations.
3. Visualize your color under various illuminants.
4. Use multiple-compare feature to compare your various samples w.r.t. standard.



## Waste Paste Utilization...

Do not throw away your leftover printing paste. Utilize it create another shade for new printing job with the help of Colorist Redyeing feature.

## Redyeing...

Put different color on your already dyed job which is possibly lying as a dead stock and make it saleable with Colorist Redyeing feature.

## Advance tools for color management...

Colorist is an ICC aware application and uses ICC profile for letting you specify RGB/CMYK colors for compatibility with your CAD system. It also displays colors on the monitor screen using monitor profile of your monitor.

What more, Colorist comes with a Monitor calibration tool also to help you create the calibration profile for your monitor.



## Share your data with your customers...

Send your QC data to your customers for final approval. Colorist allows saving of data in its .kcr format. A free Colorist reader is available at [www.kothariinfotech.com](http://www.kothariinfotech.com), to help your customers visualize the same content that are on your screen. Once again this Colorist reader application is ICC aware.

## More features...

1. Powerful database management with unique preview facility and trigger handling for live sessions.
2. Save all data you deal with, such as dyes, substrates, blends, recipes, customers, samples etc. Recall them, use them as and when required.
3. Save your working sessions, together with comments and reopen them. A unique feature that has been developed to give you maximum operating flexibility.
4. Create and save shade library according to market trends.
5. Create your own custom illuminants.
6. Export data in RTF format to be opened and edited in any popular word processing software.

**To know more about us or to download an evaluation copy visit us at [www.kothariinfotech.com](http://www.kothariinfotech.com)**  
**This product is developed in collaboration with Man-Made Textiles Research Association, Linked to Ministry of Textiles, GOI.**