Datacolor

PAINT User's Guide

<u>datacolor</u>

Because Color Matters

PAINT User's Guide

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Datacolor PAINT

Overview

Datacolor PAINT is a color-matching program designed for use in retail locations that provide custom color matching. Three different offerings of the program are available:

- **Datacolor PAINT EFB.** This system is limited to retrieving formulas from your *electronic formula book*. No instrument is required, and no physical samples are measured. See also Using Datacolor PAINT, Matching Colors, Formula Book Matching for instructions to operate this software option.
- Datacolor PAINT CCM. This system will calculate a formula using your materials to match a color from a competitor's fan deck. No instrument is required, and no physical samples are measured. See also Using Datacolor PAINT, Matching Colors, Color Card Matching for instructions to operate this software option.
- **Datacolor PAINT.** This is an in-store custom color-matching program. It formulates matches to new colors, and can retrieve formulas from the formula book or from a competitor's fan deck. Datacolor PAINT includes a correction feature that provides suggestions for correcting a mistint, and a formula storage option that allows you to store and retrieve customer formulas.

For all three programs offered, the program has been designed to allow you to selectively enable and disable program features, and customize the content of screens and buttons.

Additional Program Modules

Datacolor PAINT includes two optional programs, Datacolor COORDINATE and Datacolor DECORATE, which are purchased separately.

- Datacolor COORDINATE. This program provides suggestions for additional colors that will *coordinate* well with the custom formula selected. It allows the user to design a color scheme for the setting to be painted. *This optional feature may not be included with your system.*
- Datacolor DECORATE. This program is a design tool that allows the user to paint an interior or exterior image, using the colors recommended by Datacolor COORDINATE. The images are separated into components, allowing the user to color different objects with different colors, and evaluate the effect. It includes a photo editor that allows the user to add custom images to the standard selection. *Refer to the Datacolor COORDINATE User's Guide for instructions to run both of these programs.*

If you have purchased these optional program modules, a second button will be displayed on the main menu, and at the bottom of the formula results screen. In the example below, the **Make a Color Scheme** button provides access to Datacolor COORDINATE and Datacolor DECORATE:



About this Guide

This guide documents the major program features and program flow in Datacolor PAINT. Since the screens and buttons can be customized, the screen examples shown in this guide may not match what you see on your system. In some cases, some of the program options described may not be available on your system. In other cases, the buttons may appear in different locations on the screen, or contain different text labels. However, the basic flow and operation of the program features that are enabled on your system should perform as explained here. This documentation includes the following program options:

- Formula Book Lookup. The program will retrieve a formula from your formula book.
- Color Card Lookup. The program will retrieve a color from a competitor's fan deck, based on either the color name or the color number.
- Sample Measurement. Measure a color provided by the customer.
- Formula Calculation. The program will calculate a match to a color using the materials in your store. It will calculate a match to a customer sample or to a color in a competitor's color card deck.
- **Formula Correction.** The program will calculate an addition to an existing color that is off-shade.
- **Customer Formula Storage.** You can store a formula for an individual customer, and retrieve it at a later time.

A separate user's guide is available for Datacolor COORDINATE and Datacolor DECORATE.

System Requirements

Component	Minimum*	Recommended
Processor	Pentium III 300 MHz	Pentium IV 1.9 GHz
Memory	128 MB	1 GB
Hard Drive Capacity	10 GB	40 GB
Video Resolution	800x600 16-bit	1024 x 768 True Color
Video Memory	64 MB	128 MB
CD/DVD Drive	CD Reader	CD Writer
Diskette Drive		1.44 MB
Available Ports**	1 RS-232 1 USB 1 Parallel	2 RS-232 6 USB 1 Parallel
Operating System	Windows® 98 SE	Windows® XP Home or Pro

* The minimum requirements may limit performance and the operation of some features

** The number of ports needed depends on the number of peripheral devices on the system.

When selecting hardware and operating system features to support Datacolor PAINT, the following requirements may need to be considered:

- Datacolor PAINT is supplied on a standard 650MB capacity compact disk (CD).
- Datacolor spectrophotometers can be connected to either an RS-232 port or a universal serial bus (USB) port.
- Instrument calibration data may be distributed on 1.44MB diskettes. The presence of this diskette drive will provide maximum operational flexibility.
- Accurate on-screen color display requires a true-color video card, and the performance of monitor calibration at regular intervals. The Datacolor SPYDER2 monitor calibration device requires a connection to a USB port.
- Printer port requirements (parallel or USB) depend on the specific printer selected.
- For non-networked systems, a CD or DVD writer is recommended for use as a system backup.
- Faster processors, larger hard drives, and greater memory capacity will significantly enhance performance.

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NOTES

Using Datacolor PAINT

Instrument Driver Selection

Datacolor provides two instrument drivers for Datacolor PAINT. You may want to consider changing the driver, based on the system configuration you are using. Below is a brief description of each:

- **Datacolor PAINT native driver.** This driver is automatically installed with the program. It is used *exclusively* with Datacolor PAINT, and is simple to install and use.
- **Datacolor SPECTRUM driver.** This is a more powerful driver, written for use with all Datacolor SPECTRUM programs. If you are running Datacolor PAINT along with other Datacolor SPECTRUM programs (Datacolor MATCH^{PIGMENT}, Datacolor TOOLS, etc.), you can replace the Datacolor PAINT native driver with this driver. It is installed separately, <u>after</u> the program is installed. See also Appendix, Instrument Driver Selection and Configuration for instructions to install and configure the SPECTRUM driver for use with Datacolor PAINT.

Launching the Program

 Datacolor PAINT is launched by clicking on the Datacolor PAINT icon on the Windows desktop:



A splash screen, followed by the main program window displays.



Main Window



The window displayed depends on the setup selected by the manufacturer. Regardless of the configuration, you will always see the **Color Match** button along with the **Minimize**, **Options**, and **Exit** tabs.

- **Color Match Button**. This button opens the matching and correction options. From this button, you can calibrate the instrument, match a physical sample, retrieve a color from a fan deck or retrieve a formula previously stored for a customer. You can also correct mistinted batches.
- **Slideshow Button**. The slide show is typically a promotional demonstration created by the manufacturer. If there is a slide show included on your system, this button will launch it.
- **Options Tab.** Provides access to hardware and software settings. Using this button, you can view and edit system settings such as instrument type and location. The manufacturer's settings determine whether this page is available, and the program features included. See also Options Page for a limited discussion of the features accessed through this button.
- **Minimize Tab**. Moves the program to the task bar at the bottom of the screen. This allows you to keep the PAINT program open while working with other programs.
- Exit Tab. Closes Datacolor PAINT.

Measure Color Sample Window

To display the Measure Color Sample window, do the following:

• Click on the **Color Match** button. The Measure Color Sample window displays.



All color matching functions are launched from the buttons on the *Measure Color Sample* window:





Along the left side of the window are several program buttons:

- Formula Book. Used to look up formulas in your formula book.
- Formula Entry. Used to store customer formulas.
- **Customer Formula Retrieval.** Used to retrieve a customer formula you have previously matched, and stored in the system. See Customer Formula Storage and Retrieval for instructions on this option.
- **Measure Color Sample.** Used to measure a physical sample and generate a formula to match the color.
- **Color Cards.** Allows you to retrieve a color from an assortment of fan decks, including those of your competitors.
- **Calibrate.** This button in located in the lower right corner of the window. It is used to perform the instrument calibration.

The tabs at the top of the window are used to navigate through the program:

datacolor New PAINT. ? Help & Year Amain

- Help. Opens the on-line help program for Datacolor PAINT.
- **New Formula.** Clears the current color standard and formula information to start a new color match.
- Main. Displays the Datacolor PAINT main screen.

Instrument Calibration

Instrument calibration is a function that you perform on a daily basis. This routine compensates for any changes to the instrument that can affect the accuracy of the measurement. You should calibrate the instrument every eight (8) hours. The calibration procedure requires a minimum of two (2) measurements, and you will need the black trap and white tile to perform this procedure.



When the calibration has expired, you will automatically be prompted to calibrate the instrument if you click on the **Measure** button.

The screens shown in this section are taken from the default Datacolor PAINT configuration, using the Datacolor PAINT native driver. If you have installed the Datacolor SPECTRUM driver, the procedure and screens will be slightly different. See also Appendix, Instrument Driver Installation and Configuration for instructions to install and configure the Datacolor SPECTRUM driver.

To perform the instrument calibration:

1. Select the **Color Match** option from the main menu. The Measure Color Sample window displays:



This window displays the date and time of the last calibration.

2. Click on the **Calibrate** button at the bottom of the window, to start the instrument calibration. The program will prompt you to place the black trap at the port. Place the black trap at the port and click **Measure**.



The program will display a status message during the measurement. When the measurement is completed, the program will prompt you for the white tile.

3. Place the white tile at the port and click **Measure**.



You will see the status message again. When the measurement is completed, you will see the following message:



4. Click **Leave**. The window closes and the *Measure Color Sample* window displays.



You can now measure samples and match colors.

Troubleshooting Tips

If the instrument calibration is unsuccessful:

- Check that the cables are properly connected and the instrument is turned on. Repeat the calibration.
- If you fail a second time, contact your support line.

Matching Colors

Once you have calibrated the instrument, you can begin measuring samples and matching colors. To start matching colors:

• From the PAINT main screen click the **Color Match** button:



The Measure Color Sample window displays.



The navigation tools on this window include buttons on the left side of the windows and tabs at the top of it.



In this example, **Measure Color Sample** is the default option when **Color Match** is selected form the main screen. Your system may default to a different option.

Navigation Buttons

You can select a color for matching from one of four sources, using the buttons on the left side of the window:

datacolor		
PAINT.		
Formula		
Sook 💛		
Formula		
Entry		
Retrieval		
Maggiura		
Color		
Sample		
Jampie		
telor Color		
💐 Cards		

- Formula Book. Look up a color in the formula book.
- **Customer Formula Retrieval.** You can retrieve a customer formula previously stored. When the formula is displayed, you can re-dispense it, rescale it for a different can size, or rematch the color using a different product line.
- **Measure a Color Sample.** Measure a physical sample and generate a formula to match the color.
- **Color Cards.** Retrieve a color from a selection of competitor's fan decks. This is useful when working with a customer that wants to use one of your products, and has selected a color from a competitor's fan deck.

If you are going to measure a sample, the color measurement can be started directly from this screen.

If you have bought only the Formula Book or Color Card options, you will not see all of the buttons on the left side of the window.

The remaining buttons on the left include options to access the customer formula storage and retrieval options. See Customer Formula Storage and Retrieval for details on these features.

Navigation Tabs

Tabs along the top of the window provide access to other program features:

? Help	New Formula	🔥 Main
--------	----------------	--------

- Help. Opens the help system for Datacolor PAINT.
- **New Formula.** Refreshes the screen and displays the Measure Color Sample window to start a new color match.



If you are in a correction screen, the New Formula tab keeps the current standard, and rematches it using changes made by the user.

• Main. Returns to the main PAINT window.

Formula Book Matching

This option looks up a formula in your formula book, using either a formula name or number.

1. Click on the **Formula Book** option. The window below displays.

Product Color Number Color Number	
Can Size	
Cost Code	Correct Label Record Details



Some of the fields shown here may not be included on your screen.

Some of the fields shown here may have different names on your system.

2. **Product**. Click on the drop down arrow to view the product choices and highlight one.

Produ	ct
	•
	DCI Whites
	Exteriors
	High Gloss Enamels
	Interiors
	Latex House Paints
	Latex Interiors
	Test Colors

3. Color Name/Color Number. You must select either a *Color Name* or *Color Number*. Click on the down arrow to view the Color Name or Color Number choices, and highlight one:

Color Name	
J	•
ABBEY SLATE	~
AIRWAY	
ALABASTER	
ALDEN CHARCOAL	
ALDER	
ALMOND BISQUE	
ANTIQUE IVORY	
ANTIQUE LINEN	~

When you select a Color Name/Number, the screen refreshes and a formula is displayed. *See Results, below, for an explanation of the output.*

Results

Below is an example of a formula retrieved using the Formula Book option:

Product Interiors	ASPENWOOD
Color Name	
Color Number	AXX 0 6 1 D 0 1 1 L 0 4 1
Paint Type:	
Product Line:	
•	More Info
Can Size Quart	
	Interiors
Cost Code 11	J PASTEL 215 Quart

See also Formula Results for a detailed explanation of this screen.

Formula Book Window Buttons

At the bottom of the window are a series of buttons. These buttons provide functions to modify the formula, to store the formula in the customer file or to print a label for the can.



See Other Function Buttons in this section for an explanation of these buttons.

Measure Color Sample

This option is used to measure a physical sample provided by the customer and generate a formula to match it.



1. From the PAINT main window, click the **Color Match** button.



The Measure Color Sample window is displayed.

- 2. Calibrate the instrument as required. See also Instrument Calibration for instructions to complete the calibration.
- 3. Place the sample at the port and click the **Measure** button.

If you are working with a textured sample, you should make a series of measurements and average them. To do this, enter a different number in the *Number of Reads* field before clicking the **Measure** button.

If the instrument is not calibrated, the program will prompt you to calibrate the instrument when you click on the **Measure** button. When the calibration is completed, you can immediately measure a sample.

A progress message is displayed. When the measurement is completed, the window below displays.

Paint Type:	Interior Latex Products	•	
Product Line:	Premium Acrylic Latex Flat	•	
Tint Base:	Auto Select	•	
Can Size	Gallon		
Lighting	Outdoor 🗾		
Customer	•		
Phone Number	T		
Color Name		1111	
Color Number			
a manufacture and		Single Formula	Multiple Formulas

You must provide information about the product to be used. Defaults have been chosen for each field.

- For each selection, click on the down arrow for each field to view the selections.
- To change the selection, highlight the selection to be used.
- 4. **Paint Type.** This typically identifies the broadest category of products. It includes choices such as whether the product will be made using an interior or exterior paint product, the resin system to be used, etc.

Paint	Туре:	
		-
	Interior Latex Products	
	Interior Alkyd Products	
	Exterior Latex Products	
	Exterior Alkyd Paints	
	Exterior Solid Stains	
	Floor and Patio Finishes	
	Latex and Oil Enamels	

5. **Product Line.** This selection further narrows the product selection:

Product Line:	
Premium Acrylic Latex Flat	-
Premium Acrylic Latex Flat	^
Acrylic Latex Satin	
High Quality Acrylic Latex Semigloss	
Acrylic Latex Flat	=
Acrylic Latex Semigloss	
Flat High Hide Latex	
Low Lustre Enamel	
Semigloss Enamel	×

6. **Tint Base.** Auto Select directs the program to select the correct base to be used for the match. However, you can specify a base to be used:





Auto Select is typically used unless you are out of stock for a particular base(s).

7. **Can Size**. Typically the selections include 3 can sizes. In this example, quart, gallon and 5-gallon containers are available.

Can Size	Gallon	-
	Quart	
	Gallon	
	5 Gallon	

8. **Lighting**. The light selection affects the colorants and the quantities used.

Lighting	Outdoor 🗾	
	Fluorescent	
	Incandescent	
	Outdoor	

- Fluorescent. Used for interior applications such as offices or other settings that use fluorescent lighting.
- **Incandescent**. This represents the standard light bulb. It is typically used for interior applications.
- **Outdoor.** This represents daylight and is used for exterior applications.

This screen may also include customer information. This allows you to enter the customer information prior to matching.

9. When all of the fields are completed, click on one of the formula buttons to begin matching:





Depending on your system configuration, you may not see both formula buttons.

Formula Output

• **Single Formula.** The program will display one formula, which is the best match to the sample, using the product selections you have made.



The screens in this example are based on a generic, default configuration. Your system may not display the information exactly as it is shown here. However, your screen will include the same basic information.

datacolor PAINT:	? Help	New Change 🚮 Main
Formula Book	Customer Phone Number	Sample Measurement
Customer Formula Retrieval	Color Name Color Number Color Number Can Size	ΓL 0 16 1 T 0 34 0 V 1 38 0
Color Cards	Gallon Gloss 1.0 Cost Code 12960 Match Quali	Outdoor Outdoor Network Y
	Ner year	Premium Acrylic Latex Flat J Pastel (215) Gallon
	A (ijust 🚔 Label 🔛 Record 📋 Details

See Formula Results, Single Formula for a detailed explanation of single formula output.

• **Multiple Formulas.** The program will display a maximum of five formulas that satisfy the product selections you have made.



See Formula Results, Multiple Formulas for a detailed explanation of multiple formula output.

Color Card Matching

This option is used to match a color from a competitor's fan deck.

Color card matching is a feature that is enabled/disabled through the manufacturer settings. The manufacturer settings also determine which competitive fan decks are offered.

Procedure

1. Select the **Color Card** option from the buttons on the left. The window below displays:

Select Brand:
Select Color Name/Number:
Formulate

2. Select **Brand**. Click on the down arrow and highlight the brand:

Select_Brand:	
	•
DCI1	
DCI2	
DCI3	

3. Select **Color Name/Number**. Click on the down arrow and highlight the color name/number.

Selec	t Color Name/Number:	
	, I	-
	22	~
	234	
	2344	
	236	
	45	
	456	
	466	
	54	×
-OR-		

Click in the *Spyglass icon* on the left side of the field. This is a feature that searches for a color name based on text you enter. The window below displays:

Search		
Enter text below and cl	ick Search	
1		Search
Select Color		
Color	Brand	
		Okay Cancel

4. Enter the text to be included in the name, and click **Okay**.

ľ	Search		
	Enter text below and click Search		
	red	\bigcirc	Search

The program will search all fan decks included in the Brand selection, and display all color names that include the text entered.

s	Search			
(Enter text below and click Search			
	red Search			
Select Color				
		Color	Brand	
		Navajo Red	DCI2	
		Redwood	DCI2	

- 5. The program selects the first color in the list. Scroll through the list to highlight a different color, and click **Okay**. This window will close, and the Color Card window will display. Click **Cancel** to close this window without selecting a color.
- 6. Click the **Formulate** button on the Color Card window.



A second window appears. You must provide additional detail regarding the product to be made:

Paint Type:	Interior Latex Products		•	
Product Line:	Premium Acrylic Latex Flat		•	
Tint Base:	Auto Select		•	
Can Size	Gallon	•		
Lighting	Outdoor	•		
Customer		•		
Phone Number		•		
Color Name	Navajo Red		HH S	
Color Number	4545			
2 - 2			Single Formula	Multiple Formulas

See Measure a Color Sample Window for details on the information fields.

7. Once you have made all of the selections, click on one of the formula buttons to begin matching:



- **Single Formula.** The program will display one formula, which is the best match to the sample, *using the product selections you have made.*
- Multiple Formulas. The program will display up to five formulas that match the color and satisfy the *product selections you have* made.

Formula Results

Regardless of the source of the formula (sample measurement, formula book or color card), PAINT can provide a single formula or a group of formulas as a match to the color selected.

Single Formula Results

When you choose Single Formula, the program displays the best match it can find. Below is an example of the single formula output:

Sample Measurement						
		1.0				
	U	16	1			
Т	0	34	0			
V	1	38	0			
			More Info			
Outdoor						
Interior Latex Products						
Premium Acrylic Latex Flat						
J Pastel (215)						
Gallon						

- **Sample Measurement.** Identifies the standard as a sample that was measured.
- Ingredients/Amounts. Identifies the colorants and amounts used in the formula.
- **More Info.** Click on this button to display additional information about this formula. The information below the **More Info** button summarizes the product line, product, base and can size used.

Multiple Formula Results

For some situations, you may want to review several formulas and make the selection yourself. Below is an example of the multiple formula output:



From top to bottom, the output includes the following:

- Formula Number
- Base
- Ingredients
- Cost Code
- Color Quality

After reviewing the formulas, click on the one you want to use. The screen refreshes, and the selected formula is displayed in the single formula window.

Customer	•	<u>Navajo Red</u>	
Phone Number	•		
Color Name Navajo Red Color Number 4545 Can Size Gallon			$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Gloss 1.0 Cost Code 12313	Std 0.02 0.23 Batch Match Quality Formula #1	Outdoor Interior Latex Produ Premium Acrylic Lat	More Info cts tex Flat
		E Clear (211) Gallon	

Changing Product Requirements

Regardless of the source of the formula (sample measurement, formula book or color card), you can change the product requirements, and re-run the match. Depending on the changes you need to make, you can make the changes directly from the *Formula Results* screen, or from the **Change Info** tab at the top of the window.

• Formula Results Screen. Changes made to the fields on the left side formula screen are for informational purposes only. They do not affect the formula:

Customer	
Phone Number	
Color Name Navajo Red	
Color Number 4545	
Can Size Gallon	
Gloss 1.0 Cost Code 12313	Std Betch Match Quality Formula #1



From this screen you can also add customer information and store the formula in the customer file. See Customer Formula Storage and Retrieval for details to store the customer information.

• **Change Info Tab.** Provides access to another group of fields that can be changed.

► Ne Form	ew nula 📥	Change Info		Main	
<u>Sample</u>	Measuren	<u>nent</u>			
	В	0	1	0	
	L	0	0	1	
	V	0	0	1	

Click on the tab. The screen refreshes and the fields below display.

Paint Type:	Interior Latex Products
Product Line:	Premium Acrylic Latex Flat
Tint Base:	Auto Select
Can Size	Quart
Lighting	Outdoor 🗸
Customer	_
Phone Number	•
Color Name	
Color Number	

If you are viewing a formula from a multiple formula output, you must click on the **Change Info** tab twice to get to this window.

- Click in the field to make the desired edit(s). Changes to these fields will require that the formula be recalculated.
- When you have completed the selections, click on the **Formulate** button. The screen will refresh and a different formula will be displayed.

Printing Labels

The **Label** button at the bottom of the formula window is used to print the formula to a label.



The details regarding store location and contact information that are included on the label are configured by the manufacturer, through edits made to a settings file used by Datacolor PAINT. *Contact your system administrator to configure or edit this information.*

Dispensing Formulas

Formulas can be sent electronically to dispensers included in the following screen:

Dispenser Setup	×
Dispenser Type	2A
Select Dispenser:	
No Dispenser / Manual Dispenser	C Dromont
C CPSColor / Corob / Ultrablend Dispensers	C Ital Tinto / InkMaker / Generic
🛇 Fluid Management / Harbil / Fast Dispenser	s
C Miller	
C Tint-a-Color	
InstallShield	
	< Back Next > Cancel

When the dispensing option is enabled, a **Dispense** button is displayed on the formula screen:

		Match	Þ	Edit	1	Correct	Dispense
Color	3	Adjust		Label		Record	Details



The dispense option can be activated at any time through the **Install Dispenser Drivers** option on the Datacolor PAINT installation menu which is available on the Datacolor PAINT CD.

Other Function Buttons

Regardless of the type of color match you run, several function buttons appear on the lower right side of all the formula windows:

•	<u>Navajo Red</u>
•	I 2 41 1 R 5 47 1 T 2 8 1 KX 0 47 0
Std 0.02 0.23 Batch Match Quality	Outdoor Outdoor Interior Latex Products Premium Acrylic Latex Flat
	E Clear (211) Gallon
Adjust	Label Record Details

These buttons provide access to other options available in Datacolor PAINT.

🔛 ΝΟΤΕ

The features accessed by these buttons can be selectively enabled/disabled from the system. If a button does not display, the feature is not enabled for your system.


- **Correct.** The program recommends an addition to the existing can to correct a mistint, based on the measurement of a batch sample. To perform a correction, a batch sample must be provided. *See Formula Correction for an explanation of this feature.*
- **Dispense.** Sends the formula to a dispenser connected to the system. See Dispensing Formulas for an explanation of this feature.
- **Color Schemes.** This button opens the optional programs Datacolor COORDINATE and Datacolor DECORATE.



This button displays only if you have purchased Datacolor COORDINATE or Datacolor DECORATE. *Refer to the Datacolor COORDINATE User's Guide for details on this feature.*

- **Adjust.** This option is used to adjust a formula to make it *lighter* or *darker*. See Formula Correction for an explanation of this feature.
- **Label**. Prints a can label that includes the formula. See Printing Labels for an explanation of this feature.
- **Record**. Stores the formula under a customer name. See Customer Formula Storage and Retrieval for an explanation of this feature.
- **Details**. This feature is used to add comments about the formula in the customer record. They can be displayed when the formula is recalled. See Customer Formula Storage and Retrieval for an explanation of this feature.

Adjust

This option is used to adjust the lightness/darkness of the standard before the first formula is dispensed. It is used after the formula is calculated, and before you actually make the formula.

	Sample Measurement
	B 0 1 0 L 0 1 0 V 0 0 1
Std 0.13 0.33 Batch	Outdoor Interior Latex Products
Match Quality	Premium Acrylic Latex Flat J Pastel (215) Gallon Enter user text here
	Correct
🔒 Adjust	Label 🔛 Record 📄 Details

1. Measure/retrieve a target color and run a match.

2. On the Formula Results screen, click the **Adjust** button. The window refreshes.



The sliding bar in the middle of the screen is used to change the lightness/darkness of the sample.

Change Change	Total
100% 50% 25% FTP: Darker Std	
Lighter 25% 50% 75% 100%) - 4 - b

As you move it left (lighter) or right (darker), the ingredient amounts will change to achieve the desired change in lightness. In this example, the sample has been made lighter.



To achieve this change, the *Change* amounts indicate that computer *removed* a small amount of the AXX (yellow) and V(violet). The *Total* amounts are the new starting formula for this sample.

From this screen you can do the following with this formula:

- **Dispense Change.** Add material to an existing can. If you have dispensed the original formula, you can adjust this formula to the preferred lightness by dispensing only the change amounts.
- **Dispense Total.** Dispenses the colorant amounts displayed in the Totals columns. This assumes you are making a completely new formula, and using the base and can size called for in the original formula.
- **Record.** Record the formula in the customer file.
- **Label.** Prints a label containing the formula. The formula printed is the formula displayed in the Totals section.

Labels

Labels containing the formulas are printing from the formula screen by clicking the **Label** button.

		Match	Þ	Edit	Correct	Dispense
Color	3	Adjust		Label	Record	Details

The store contact information included on the label is customized for each system. *Please contact your System Administrator to create or change this label information.*

Dispense

If you have a dispenser connected to your computer, the formula can be transmitted directly to the dispenser. The dispensing options are enabled during the installation of the dispenser program. When enabled, a **Dispense** button is displayed on the formula screens:



🔛 ΝΟΤΕ

To install the dispenser drivers at any time, launch the Datacolor PAINT installation menu and select *Install Dispenser Drivers*.

Formula Correction

Datacolor PAINT includes an option to correct a mistinted batch by adding more colorant to the can. To run this option you need a sample of the mistinted paint, and the original formula must be stored in the system.

The program offers two approaches to correction. Autocorrect instructs the program to calculate the best add possible, using the ingredients selected. Datacolor PAINT also provides the user with the option to shade the batch manually.

Access to these correction features is controlled by the system configuration. Some manufacturers choose to disable some or all correction features. To access the correction option, you must match a color and display a formula. This can be done either by measuring a sample, or by retrieving a formula from a formula book, competitor's fan deck or customer formula file.

Customer Foucault Phone Number 123.456.7890	•	<u>Dusty Mauve</u>
Color Name Dusty Mauve Color Number		B 0 19 1 T 0 30 0 V 1 8 0
Can Size Gallon	v	
Gloss 1.0 Cost Code 12932	0.06 0.75 Batch Match Quality Formula #3	Outdoor Interior Latex Products Premium Acrylic Latex Flat
		J Pastel (215) Gallon
Concession of the second se	🚡 Adjust 🚔	Label 1 Record Details

A formula example is shown below:

To correct a mistinted batch, you can use the **Correct** button at the bottom of the formula window.

Two different correction types are available:

- Correct By Adding. This approach adds colorant to the existing can.
- **Reformulate.** This approach assumes you are starting with a new can. As a result, reformulate may produce a formula containing a smaller amount of a colorant than was included in the original formula. Reformulate lets you "take out" some colorant, as needed.



The *Reformulate* correction type is not enabled in a default configuration. The default configuration enables *Correction* (Correct by Adding), and only one correction button displays.



When *Reformulate* is enabled, you will see two correction buttons at the bottom of the screen:



Contact your System Manager if you want to enable the Reformulate option.

Procedure

Below are the steps to perform a correction.

IDNOTE

The target color and formula can be generated through the matching options, or retrieved from a customer record.

- 1. Select a target color and obtain a formula.
- 2. Click on the **Correct** button on the formula screen. The program will prompt you to re-measure the target sample.

Paintmak	er 🔀
?	Would you like to remeasure the Original Sample?
	Yes No

- 3. If the mistint is due to the wrong target sample being measured, click **Yes.** The program prompts you to re-measure the sample. Place the original sample at the instrument port before and click **Yes.** The measurement begins immediately.
- 4. If the mistint is because the wrong ingredients or amounts were used, you do not need to remeasure the standard. Click **No**.

5. The program prompts you for a sample of the mistinted paint:



Place the sample at the port and click **Measure**. The window will refresh and the original formula will be displayed:



6. Click the **Auto Correct** button at the bottom of the window. The screen refreshes, and the add amounts display in the center of the window.





Systems can be configured differently to run a correction. On some systems, a single **Auto Correct** button may be displayed. Other systems may include two correction buttons, **Correct by Adding** and **Reformulate**.

Correct by Adding is run using the above instructions.

Reformulate is an optional correction feature enabled by the manufacturer. The operation of this feature is beyond the scope of this document.

Results



Original Formula. This is the original formula provided by the system. It includes the ingredients and the amounts used.



The formula in this example is expressed in fractional parts of an ounce, rather than decimal equivalents. Dispensers commonly used with Datacolor PAINT often dispense colorant in fractional parts. The precision of the fractional parts amounts is critical to the quality of the color match.

Change. This is the computer-generated add.



In this example, the program is recommending the following adjustment:

- Add 1/48th of Colorant B.
- Add 1 oz., 36/48th of Colorant KX.

Total Formula. This is the sum of the original formula and the change.



Match Quality. Information about the match quality, before and after the correction, is also provided:



The graphic display for match quality can be changed from color patches (shown) to a bulls eye, by clicking on the color patch/bull eye icon:



- **Original Formula Quality**. This is the actual difference between the target sample and the mistint sample. In this example, it is 1.04 units.
- **Corrected Formula Quality.** This is the projected difference between the target color and the current batch, after the recommended correction is made. In this example the projected color difference after correction is 0.68.

Cost. Information about the cost of the original formula and the corrected formula is provided. Depending on the system setup, cost information can be expressed as an actual cost, or as a code.



- Original Formula Cost The cost of the formula in the can.
- Change Cost. The cost of the addition.
- **Corrected Formula Cost.** The cost of the resulting formula (original formula + the add).

Manual Add

You can adjust a formula manually to correct a mistinted batch.. This is done on the correction screen by manually entering ingredient amounts in the *Change* columns, and evaluating the effect on both the color quality and the cost of the formula.

Changing Ingredients Amounts

After the computer-generated correction is displayed, you can manually adjust the ingredients used in the correction. Below is an example of this option:



Throughout this section we are working with the same formula. In each example the automatic correction made by the computer is compared to the manual correction made by the user.

The program starts with a computer-recommended correction for the mistint:

	Original	Formula	I	/Change			Total		
Ingred.	Oz.	1/48	1/96	Oz.	1/48	1/96	Oz.	1/48	1/96
L	0	16	0	0	15 🔶	1	0	31	1
Т	0	7	0	0	1 🚔	0	0	8	0
- V -	0	17	0	0	5 🔶	0	0	22	0
KX	0	0	0	0	0 🔶	0	0	0	0
					Totals	:	1	13	1

• The *Total* columns display the final formula. These amounts include the original formula and the change amounts for each colorant.

To change the amount for one/several colorants, click in the *Change* column for the ingredient amount to be changed, and enter a different amount.



Below is a comparison of a computer-generated correction, and a user-generated correction for the same color:

Computer Generated Correction

Change			Total		
Oz.	1/48	1/96	Oz.	1/48	1/96
0	15 🔶	1 🔶	0	31	1
0	1	0	0	8	0
0	5	0	0	22	0
0	• • •	0	0	0	0
	Totals	3 :	1	13	1

Computer-Generated Correction Color Quality

Std Batch	3.02	The Delta E improved by 2.93	Std 0.09 Batch
Original Formula Quality	a		Corrected Formula Quality

In this example, the computer-generated add improves the Delta E (color difference) by 2.93 and produces a color difference of 0.09.

PNOTE Auto-Correct considers can size limitations when calculating an add.

Manual Add by User



In this example, the manual add is a smaller add.

- The user has reduced the amount of *Colorant L* added from 15/48^{ths}, 1/96th to 13/48^{ths}, 1/96th.
- The user has also reduced the amount of Colorant V from 5/48 $^{\rm ths}$ to $4/48^{\rm ths}.$

User-Generated Correction Color Quality

Below is the effect of the User-Generated Correction on the color quality of the match:



This adjustment improves the Delta E by 2.53, and produces a color difference of 0.49.

The computer-generated add always tries to make the best match in terms of color quality. While color quality is very important, sometimes the cost of the add must also be considered. In this example, the user-generated add may be an acceptable solution in terms of color quality, and lowers the cost of the add.

Customer Formula Storage/Retrieval

Overview

You can store formulas for individual customers. Once stored, they can be retrieved to make additional quantities as needed, to be rematched or to develop a color scheme using Datacolor COORDINATE.

The group of buttons on the lower left section of the formula window includes functions for storing, editing, or printing formulas in the customer file:



- Label. Prints a label containing the formula.
- **Record.** Stores the formula in a customer record. You must click on this button to store the formula currently displayed on the screen.
- **Details.** Opens a window that allows you to add more information to the customer record, such as customer address, salesman, comments about the formula, etc. *See Details Button for instructions on using this option.*

Formula Storage

You can store a formula when a match or correction is completed. You can also open the program at any time, and store a formula manually by selecting the **Formula Entry** button on the *Measure a Color Sample* window:

Customer		<u>Navajo R</u>	ed			
Phone Number	•					
Color Name						
Navajo Red			I	2	41	1
Color Number			R	5	47	1
4545			Т	2	8	1
Can Size			KX	0	47	0
Gallon	•					
Gloss 1.0 Cost Code 12313 Match	0.02 0.23 Batch Quality	Outdoor Interior La Premium	atex Produc Acrylic Late	cts ex Fla	at	More Info
		F Clear	(211)			
		Gallon	,			

Below is an example of formula display:

Record Button

This button is used to store the formula in the customer file. To store this formula at the time it displays, do the following:

- 1. Complete the *Customer Name* and *Phone Number* fields. You can enter up to 40 characters in the *Customer Name* field. Entering a name is optional. For most system configurations, you must enter a phone number. *If you want to configure your system so that a phone number is not required, see your System Administrator.*
- 2. The *Color Name* and *Color Number* fields will be empty if you have measured a sample as the target color. If these fields are empty, enter the appropriate information.

3. Click the **Record** button at the bottom right of the window.



The following message displays:

Paintmaker X
Formula stored successfully. Press ""OK"" to continue.
ОК

4. Click **OK**. The formula information will continue to be displayed. You can run a different match, make a color scheme, etc.

Details Button

This option allows you to add more information to be included in the formula record. To access this option, do the following:

1.	Click the Details button. The Customer Formula Details window
	displays.

	Customer Form	ula Details	
Customer	•	Address	
Phone #	_	Address	
Color Name		City	
Color #		State	
Customer #		Zip Code	
Date	4/9/2007	Contractor	
Sold By		Job name	
Paint Use		Job #	
Paint Use Notes: #1 #2	Place details on this product line her	Job #	
#3			
User Text			



(1) None of the fields on this screen are required.

(2) Reports and labels can be customized to include the contents of the Notes section. Your System Administrator is responsible for designing labels and reports.

(3) The user text section is optional, and is printed on the label. See your System Administrator to enable or disable the user text option.

2. When you have completed all of the relevant information, click on the **Save** button at the bottom of the window:



Manual Formula Entry

Formulas can be entered into the system manually. This option is helpful in the following situations:

- To store a formula that was not produced by the computer.
- To store a formula that was not stored at the time it was generated.

Manual formula entry can be accessed from *Measure a Color Sample* window.

1. Click the **Formula Entry** tab. The window below displays.

Customer Phone Number Color Name	To add an ingred the correspondin KX B L D T V	dient to yo na inaredia C E	ur formula ent in the b F	, click on box below AXX • R
Color Number	Ingredient	Oz.	1/48	1/96
Product Line:		4		
Tint Base: J Pastel (215)				
Can Size Gallon Cost Code 12800				

- 2. Enter the customer information.
 - If the customer record already exists, click on the down arrow in the *Customer* or *Phone Number* fields and highlight the customer information.
 - If this is a new customer, enter a customer name and phone number.



3. Enter the information about the product. You must provide a can size, paint type, product line and base selection:

Color Name
Color Number
Paint Type: Interior Latex Products
Product Line:
Tint Base: J Pastel (215)
Can Size Gallon

- Click on the down arrow next to each field, and highlight the correct selection.
- 4. Enter the colorant information. This is displayed on the right side of the window:



- Click on the first colorant to be entered. It will be displayed in the Ingredient heading:



- Enter the **amount of the ingredient** used in the formula:



- Repeat this entry for each ingredient in the formula.
- 5. When you have entered all of the information, click **Record** to store the formula.

Formula Retrieval

When you store a customer formula, you can recall it at any time. Once retrieved, the formula can be used in the following ways:

- Dispense additional batches using the original can size
- Rescale the formula to a different can size
- Rematch the standard using a different product
- Fix a mistinted batch

To retrieve a customer formula, do the following:

1. From the Datacolor PAINT main menu, select **Color Match**, **Customer Formula Retrieval**. The window below appears:

Formula	Customer
Book Formula	Phone Number
Customer Formula	Color Name
Retrieval Measure Color	
Sample Color Cards	Gallon
	Date Stored

2. Formulas are stored based on the *customer* name. Click on the down arrow, and select the correct customer:

Customer	
	•
Foucault	



Formulas can be retrieved either by *customer* name or *phone number*. Each customer can only be assigned one phone number. A new phone number creates a separate customer record.

3. Click on the arrow in the *Color Name* field. The colors stored in the customer record are displayed:

Color Name	
	-
Color Dusty Mauve	
Pink	

4. Highlight the formula to be retrieved.

Customer	Pink
Phone Number	
Color Name	L 0 16 1
Color Number	T 0 34 0 V 1 38 0
Can Size Gallon	
Date Stored 11/1/2006	More Info
Cost Code 12980	Outdoor Interior Latex Products
	Premium Acrylic Latex Flat
	J Pastel (215)
	Gallon

The program displays the stored formula. From this window, you can make changes to the stored formula including:

- Rescale the formula
- Rematch the color using a different product
- Correct the formula
- Adjust the formula
- Edit the formula
- Print labels for additional cans that you are making
- Dispense the formula

These options are accessed through buttons at the bottom of the window.

Rescale a Stored Formula

To rescale the current formula:

- 1. Retrieve the stored formula.
- 2. Click on the down arrow in the *Can Size* field, and select a different container. The window will refresh and a new formula will be displayed.

Depending on the formula and the new can size, you may receive the following message:



3. Click **Okay.** The program will continue with the request to rescale the formula:

<u>Pink</u>				non-even
	L	0	4	0
	Т	0	8	1
	V	0	21	1
				More Info
Outdoor Interior La	atex Pi	oducts		
Premium	Acrylic	: Latex F	lat	
J Pastel	(215)			
Quart				

In this example, the colorant amounts could not be exactly rescaled. For example, the quantity of Colorant T in the gallon formula is $34/48^{\text{ths}}$. This amount cannot be divided evenly by 4.

TIP

This quart formula will fit into the can size selected. However, it will not be an exact match to the gallon previously made. If the new and old paint will appear side-by-side, the customer may want to consider purchasing the original gallon can size to ensure an accurate color match.

Rematch a Stored Formula

Depending on customer's decorating goals, you may need to match the same color in more than one product (i.e. a flat finish and a semi-gloss finish, etc.) You can accomplish this by retrieving a customer formula, and then matching the same color using a different product:

Customer		Silver
Phone Number (123.456.7890		
Color Name Silver	·	L 0 22 1
Color Number		▼ E 0 5 0 ▼ V 0 5 0
Can Size Gallon	·	•
Date Stored 4/9/2007 Cost Code 12418		More Info
		Interior Latex Products Premium Acrylic Latex Flat
		AB White (200) Gallon Enter user text here
	Match	🛃 Edit 🌋 Correct 📥 Dispense
Color Schemes	Adjust	Label 🔛 Record 🗖 Details

1. Retrieve the formula from the customer file.

2. Click the **Match** button. The window below appears:

Paint Type:	Interior Latex Products	•	
Product Line:	Acrylic Latex Semigloss	•	
Tint Base:	Auto Select	•	
Can Size	Gallon		
Lighting	Outdoor 💌		
Customer	Foucault		
Phone Number	123.456.7890		
Color Name	Silver	AND S	
Color Number			
Al American Street		Single Formula	Multiple Formulas

3. Make changes to any of the fields in the window. In this example, the product line has been changed to a semi-gloss product. After you change the selections, click on one of the **Formula** buttons to generate a new formula:

<u>Silver</u>			
	0	36	1
E	0	5	1
🗖 🗖	0	5	1
			More Info
Outdoor Interior Latex Product	s		
Acrylic Latex Semiglo	ss		
J Pastel (215)			
Gallon			
Enter user text here			•

The formula above is a match to the original customer color, Silver, using a semi-gloss product.

4. To store this formula as a separate color, make a change to the *Color Name* or *Color Number*, and click **Record**.

Customer	
Foucault	-
Phone Number	
123.456.7890	-
Color Name	
Silver Semigloss	
Color Number	

The new formula name will appear in the Color Name selections:

NOTES

Options Page

Overview

The *Options* tab at the top of the main program window accesses system configuration options.



The buttons in the middle of the screen (e.g., Instrument Setup, Spectro Diagnostics, MS Agent Setup, etc.) provide access to program options that can be selectively disabled and enabled. The display of these options is typically configured by the manufacturer. *Contact your System Administrator for information on the selections that appear on your Options page*.

Below is an example of the Options window:



The buttons at the bottom of the window are always displayed. An explanation of these three function buttons are provided in this section.

Calibrate Display

This feature is used with the Datacolor Spyder2 to calibrate the computer monitor. When the monitor is calibrated, the color of the formula displayed on the screen more closely matches the color of the sample that you are matching.

To perform a monitor calibration:

- 1. Connect the calibration device to a USB port on the computer.
- 2. From the Datacolor PAINT main screen, select **Options**. A series of icons will be displayed. Click on the **Calibrate Display** icon.



3. Click on the icon that identifies the type of display you are using, LCD or CRT, and click the **Accept** button.



The screen below appears:



- 4. **Position** the Datacolor Spyder2 over the square on the screen, and click **Accept** to start the calibration.
- 5. Continue holding the Datacolor Spyder2 against the monitor until the message "Calibration Completed" appears in the lower left corner of the window.
- 6. When the calibration is completed, click **Exit**.

Printer Setup

This option is used to select the correct print size and type, and to direct the output to the correct printer.

Your current POS printer:	WDCI-PDC\Xerox432ST	Select Printer
our current printer size:		•
our current report:		View Report

- Your current POS printer. The name displayed should match the printer connected to the system. Click on **Select Printer** to change the printer selection.
- Your Current Printer Size. Identifies the paper size currently selected for the printer. Reports may be formatted for different printer sizes. Click on the down arrow in the field to view the choices, and highlight the correct size.
- Your Current Report. Displays the report selected for printing.

Change Appearance

These options control the appearance of the Datacolor PAINT main screen, and the font sizes used for the buttons that appear on the screens.

Scheme							
Please select a scheme: Scheme:	DPDefault	Save As	cmdDelete				
Contonio.	🔽 Enable Skinning						

Scheme Selection

Scheme Selection controls the appearance of the Datacolor PAINT main screen. There are several different user interface configurations available. It is also possible to customize the user interface. *Please contact your System Administrator regarding customized interfaces.*

- 1. Click on the down arrow to view the scheme choices, and highlight your selection. If you choose any scheme except **DPDefault**, you can customize the font size of the buttons used in the user interface and preview the result.
- 2. Click on one of the button sizes (e.g. MEDIUM, SMALL LARGE, etc.) on the preview pane.

Scheme Please select a sche	me.	1		
Scheme:		PUSClassic	<u> </u>	Save As cmdDelete
Preview Please click on the item you	À (0)	F2		** * * * *
wish to	`````! <mark>@@</mark> @) 🔏 F	ET ET	inter the second
redesign:	<u> </u>	′ ♥゚゚゚゚゚゚゚゚゚゚゚゚゚゚゚゚゚゚゚゚゚゚゚゚゚゚゚゚゚゚゚゚゚゚	Small	Paintmaker

Additional options are displayed:

Preview									
Please click on the item you wish to redesign:	FT Small	F1 Pal							
Properties for MEDIUM Buttons.									
Shape © Rectangular	Height:	1500 E H	over Selection						
C Diamond	Width:	🔽 🔽 S	how Caption						
C Round	Border Width:	□ S	how ToolTip						
Text Color: AaBbYyZz	Background Picture:	POSBackground.bm Br	owse						
,,	Grey Area Picture:	POSBackground.bm Br	owse						
Button									
Please select a item first:									
Item:	Background Color:								
Picture:	Browse								
		Okay	Cancel						

- You can customize the shape, size and button contents for the user interface provided with the program, using the fields in this section. Make your selections and click the **Okay** button at the bottom of the window. When you return to the Datacolor PAINT main screen, the new scheme will be displayed.
- 4. To close the window without choosing any selections, click the **Cancel** button.

Enable Skinning

When the DP Default scheme is selected, the *Enable Skinning* option is enabled. The Skinning feature provides a much more extensive option for customizing the user interface. This includes customizing the location of buttons and other navigation devices on the interface. When *Enable Skinning* is not available, the Preview pane explained in Scheme Selection is displayed, giving you the option to customize the standard user interface designs provided with the program.

NOTES

Appendix

Instrument Driver Selection/Configuration

Two instrument drivers, the Datacolor PAINT native driver, and the Datacolor SPECTRUM driver are available for use with Datacolor PAINT. When Datacolor PAINT is installed on a new system, it automatically installs the Datacolor PAINT native driver. To help you determine the instrument driver to use, this section reviews the configuration, uses, and installation of each driver.

Datacolor PAINT Native Driver

This driver is used exclusively with Datacolor PAINT.

Configuration

The default Datacolor PAINT installation loads this driver.

Advantages

- If the only Datacolor program you are running is Datacolor PAINT, you can use the Datacolor native driver. It is installed automatically during the program installation.
- No additional program configuration is required to activate the Datacolor PAINT Native driver.
- Simple to use.

Disadvantages

• Does not support Datacolor SPECTRUM products. If you are using any SPECTRUM products, you must also install and use the Datacolor SPECTRUM driver.

Datacolor SPECTRUM Driver

This driver supports all Datacolor SPECTRUM products, including Datacolor PAINT.

Configuration

- The SPECTRUM driver can be installed on a system that also has the Datacolor PAINT native driver.
- It is installed and configured separately, after Datacolor PAINT is installed.
- You must use the SPECTRUM driver for all other Datacolor SPECTRUM products.

Advantages

- You can use both instrument drivers. You use the Datacolor native driver with Datacolor PAINT, and the Datacolor SPECTRUM driver for all other Datacolor SPECTRUM products.
- For systems using multiple Datacolor programs, you can configure Datacolor PAINT to use the Datacolor SPECTRUM driver, eliminating the need for the Datacolor PAINT native driver. This configuration eliminates the need to perform every instrument calibration twice.

Disadvantages

If you use the Datacolor native driver for Datacolor PAINT, and the Datacolor SPECTRUM driver for all other Datacolor programs, you must complete every instrument calibration twice.

Datacolor SPECTRUM Driver Installation

The Datacolor SPECTRUM driver is installed using the Datacolor PAINT installation menu.



You must provide the white tile calibration data to complete the instrument configuration procedure. This data is provided by Datacolor on both a diskette and CD, and is shipped with each instrument.

Below is a summary of the steps involved:

- 1. Install the SPECTRUM driver.
- 2. Configure the Spectrum driver to recognize your instrument.

Installation Procedure

The Datacolor SPECTRUM driver installation is launched from a menu option on the Datacolor PAINT Installation Menu.

🤛 NOTE

If the Datacolor SPECTRUM driver is on the system *prior to* the installation of Datacolor PAINT, you *must* still perform the driver installation from the Datacolor PAINT installation menu. This procedure assigns the use of the Datacolor SPECTRUM driver to the Datacolor PAINT program. If you do not include this step, Datacolor PAINT will default to the Datacolor PAINT native driver.

To install the Datacolor SPECTRUM driver:

1. Place the Datacolor PAINT CD into the drive. The installation menu displays:



2. Click Install Instrument Drivers. Another menu will display:



3. Click Install Datacolor SPECTRUM Drivers. The driver will install automatically without any further user input.



You must **configure** the SPECTRUM Driver to recognize the instrument model you are using. See Instrument Configuration *Procedure below for instructions to complete the driver configuration.*

Datacolor SPECTRUM Driver Configuration

This procedure must be performed for the Datacolor SPECTRUM driver to identify the instrument model you are using.

To complete the instrument configuration:

1. Insert the Datacolor PAINT program CD. The installation menu displays:





The *instrument configuration* options can also be accessed from a program option on the system. Click on **Start, All Programs, Datacolor Spectrum, Datacolor Spectrum Utilities, Configure Instrument**, and go to step #3 in this procedure.
2. Click on **Install Instrument Drivers**. The window below is displayed:



3. Click on **Configure Datacolor SPECTRUM Driver**. The window below displays:

× Measurement Main Window	×
Measurement conditions:	
Instrument type:	
Driver requested Communication parameters Communication port: COM1 Bits per Seconds Advanced Data bits: Parity bit: Stop bit:	
Serial Number	
Save Setup	
Name: Sampling colors Close	

4. In the *Instrument Type* field, click on the down arrow to view the instrument choices.

Measurement Main Window	
Measurement conditions:	Aperture: Normal 3 Flashes: 100
4 UV %: 100	6 Cut-off: NONE
🖪 Single 🛛 🛛 Multiple 🖥 Until Tol. 🕁	Calibrate 🦞 Instruments Setup 🚽 General Options
Instrument type:	▼ 110: Datacolor 110
	110P: Datacolor 110P 245: Datacolor 245
Driver requested	400: Datacolor 400 550: Datacolor 550 600: Datacolor 600
Communication parameters	650: Datacolor 650 CE2145 : COLOREYE 2145 CE3000 : COLOREYE 3000
Communication port:	CE7000 : ColorEye 7000 CE70004 : ColorEye 70004
Bits per Seconds	CF57/CF557/CF58/CF588 X-Rite Matchrite CHECK: Datacolor CHECK
Data hits:	CM3700 d: Minolta 3700 d 🛛 📉 📉

5. Click on the **Instrument type** connected to your system:

Measurement Main Window	
Measurement conditions: 1 Specular: INCL. 2 4 UV %: 100	Aperture: Normal 3 Flashes: 100 6 Cut-off: NONE
🖪 Single 🛛 🛛 Multiple 🖥 Until Tol.	Calibrate Y Instruments Setup 🗗 General Options
Instrument type:	SF600 : DCI Spectraflash 600+
Driver requested	Unispef32.dll
Communication parameters	COM1:19200,N,8,2
Communication port:	COM1 -
Bits per Seconds Data bits:	19200 Advanced
Parity bit:	N
Stop bit:	2
Serial Number	7165
	Save Setup

6. In the *Serial Number* field, enter the serial number from the white calibration tile.

7. Place the disk containing the instrument calibration data into the appropriate drive and click **Save Setup**. The program will prompt you for the calibration data.



The program will default to the diskette drive (A:). If it does not find a disk in this drive, it will prompt you for the disk location:

Loading the	Absolute White Values:					? 🛛
Look in: 😼	My Computer	•	¢	£	n ik	· ·
31/5 Floppy Local Disk (PAINT100E Shared Do tester's Do	(A:) C:) I3 (D:) suments cuments s's Documents					
File name:						Open
Files of type:	Abs.white Value Files (whites?.dat)			•		Cancel
	Copen as read-only					

8. Browse to the correct drive, highlight it and click **Open**. Two files will be displayed:

Loading the	Absolute White Values:
Look in: 退	3½ Floppy (A:) 💌 🗢 🖻 📸 ד
File name:	"WHITESI.DAT" Open
Files of type:	Abs.white Value Files (whites?.dat)
	C Open as read-only

9. Select both files and click **Open.** The calibration data will be copied to the system and the window below will be displayed:

 Measurement 	Main Windo	w	
Specular Include	sf600+	UV-Filter	Calibrate
C Exclude	مالا م	C 0 % UV (Filter FL40)	
C Gloss	V9.12	C Filter FL42	Cancel
Aperture		C Filter FL46	
C Large Medium Small Ultra Small Extra Ultra Small Extra Ultra Small Auto-Zoom		UV D65/10 (Garc Stiesse) 68.00 UV D65/10 (CE Whiteness) UV C (SO Bightness) CutV C (SO Bightness) Calbrator % remaining part of UV	Abs.white Gloss table
Transmittance			
Calibration time interval (hours): 8			
Calibration condition:			
Calibration time:			

You can calibrate this instrument directly from this option, or you can calibrate at a later time.

10. Click **Calibrate** to calibrate the instrument. You will need the black trap, white tile and green tile from the instrument tile box to complete the calibration. See *Instrument Calibration for instructions to complete the calibration.*



The Datacolor SPECTRUM driver prompts you for a green tile measurement at the end of the instrument calibration:



This is an optional step that can be disabled. See Disabling the Diagnostic Tile Test for instructions to turn off this measurement.

11. Click **Cancel** to close this window. The Windows Desktop will display. You can now launch Datacolor PAINT.

Disabling the Diagnostic Tile Test

When running the Datacolor SPECTRUM instrument driver, the program may prompt you for a diagnostic (green) tile measurement as part of the calibration routine:

Prepare for diagnostic
Set up Instrument for Diagnostic Tile Measurement
Ready

This option can be disabled or enabled at any time. To disable this option:

1. From the Datacolor PAINT installation menu, click on **Install Instrument Drivers, Configure Instrument.** The window below displays.

Measurement Main Window	
Measurement conditions:	Aperture: SAV 3 Flashes: 2
4 UV %: 100.00	6 Cut-off: NONE
🖪 Single 🛛 🛛 Multiple 🖥 Until Tol. 🗍	📱 Calibrate 🦞 Instruments Setup 🗿 General Options 🔢 UV 💶
Instrument type:	SF600 : DCI Spectraflash 600
Driver requested	Unispef32.dll
Communication parameters	COM1:19200,N,8,2
Communication port:	COM1 •
Bits per Seconds	19200 Advanced
Data bits:	8
Parity bit:	N
Stop bit:	2
Serial Number	7165
	Save Setup



The *Instrument Configuration* options can also be accessed from a program option on the system. Click on **Start, All Programs, Datacolor Spectrum, Datacolor Spectrum Utilities, Configure Instrument** to access the configuration options.

2. From the group of tabs in the middle of the screen, click on **General Options**.



3. In white box on the left side of the window, click on Green Tile Test.

🖸 Single 🛛 Multiple 🐻 Until Tot. 🗣 Calibrate 🦞 Instruments Setup 🦸 General Options 🔂 UV 💶			
Single Measurement Multiple Measurement Until Tolerance Construment Calibration Correlation Green Tile Test	Green Tile Test		
	Performs diagnostic tile test after ALWAYS		
	Limit for diagnostic tile test 0.5		
	Treat failed diagnostic tile test like uncalibrated		
	Reset Green Tile Data All Diagnotics Standards		
	Diagnostic tile test:performs		
Save options			

4. On the right side of the window in the field, *Perform diagnostic tile test after instrument calibration*, click on the down-arrow. The choices below are displayed.

Single Multiple B Until Tol. Ca Options	alibrate 🛛 🦞 Instruments Setup 👘 General Options 🛛 🔂 UV 💶 🕨		
Gingle Measurement Multiple Measurement Unit Tolerance Correlation Correlation Green Tile Test	Green Tile Test		
	Performs diagnostic tile test after ALWAYS Instrument calibration NEVER		
	Limit for diagnostic tile test		
	Treat failed diagnostic tile test like uncalibrated		
	Reset Green Tile Data All Diagnotics Standards		
	Diagnostic tile test: performs		
Save options			

- Always. The program will always request a green tile measurement as part of the calibration routine. You will not be able to complete the instrument calibration without performing the green tile measurement.
- Never. The program will never request a green tile measurement as part of the calibration routine.

- **Optional.** The program will request a green tile measurement as part of the calibration routine. The operator can choose to skip this measurement and still complete the instrument calibration.

Single Multiple B Until Tol.	Calibrate 🦞 Instruments Setup 👂 General Options 📓 UV 💶			
Green Tile Test	Green Tile Test			
	Performs diagnostic tile test after NEVER			
	Limit for diagnostic tile test 0.5			
	Treat failed diagnostic tile test like uncalibrated			
	Reset Green Tile DataAll Diagnotics Standards			
	Diagnostic tile test: performs			
Save options				

5. Make the appropriate selection, and click **Save Options**.

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