
Datacolor ColorReaderPRO

Model DC10-1

User Guide



Datacolor ColorReaderPRO™ User Guide

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Datacolor ColorReaderPRO

Introduction

Datacolor ColorReaderPRO Model DC10-1 is a powerful, easy-to-use measurement and color lookup tool developed for color professionals including painters, facility managers, architects, and designers.

You can use Datacolor ColorReaderPRO to quickly and accurately measure samples selected by a customer, and find the closest color matches in a fan deck collection stored on the unit or the mobile application. Your customer then makes final color selections *on the spot*.



Bluetooth connectivity greatly expands the flexibility of Datacolor ColorReaderPRO. You can install the Datacolor ColorReaderPRO mobile application on portable devices including cell phones and tablets. Using this mobile application, you can easily store, recall, and examine project color information while working with a client in real time. Using the *Sync* option, you can add or update fan deck collections or other proprietary color systems in the mobile application.

You can also use Datacolor ColorReaderPRO as a stand-alone tool. When you measure a color in stand-alone mode, the OLED screen displays the top 3 color numbers of the closest matches within the fan decks synced with the device.



About this Guide

This guide covers the following:

- Datacolor ColorReaderPRO device set up and operation
- Features and operation of the Datacolor ColorReader mobile application

Manufactured:

Datacolor Technology (Suzhou) Co., Ltd.
No. 288 Shengpu Road, Suzhou Industrial Park
Export Processing Zone B.
Suzhou, Jiangsu 215021
P.R. China

Datacolor ColorReaderPRO General Information

Power Source

Datacolor ColorReaderPRO Model DC10-1 has a rechargeable lithium battery. The battery is charged using the micro USB cable included in the package.

Operation

This product is to be used only as specified by the manufacturer, and according to the instructions for operation and maintenance provided herein.

Wireless Communication Capability

Datacolor ColorReaderPRO is Bluetooth®-capable (4.0 or higher)

Optical Configuration

45°/0° type

Colorimetric Data

1976 CIE L*a*b* coordinates; Illuminant D65; 10° Standard Observer

Replacement Parts

White calibration slide

Device Markings

Several markings on the outside diameter of the unit includes the following information:

- Instrument Model
- Ratings
- Compliance and certification information



Serial Number

The serial number is programmed into Datacolor ColorReaderPRO and is displayed on the side panel display during product startup.

Instrument Maintenance

There are no user-serviceable parts for this equipment.

Safety Warnings

Caution

If any of the following conditions exist, disconnect the USB cable:

- The USB cable is damaged.
- The device is exposed to water or other excess moisture.
- The device is dropped or damaged.
- The device needs service.

The protection of the device may be impaired if used in a manner not specified by the manufacturer.

To insure operational safety:

- Keep the device away from sources of liquids such as sinks, tubs, showers, etc.
- Protect the device from excess moisture.
- Follow all instructions and warnings provided with the unit.
- Read all instructions carefully before connecting the device to charge.

Mobile Application Requirements

The requirements to run Datacolor ColorReaderPRO mobile application include:

Device	Operating System
iPhone®	IOS® v. 9.3 or higher
IPad Touch®	IOS v. 9.3 or higher
Android®	6.0 or higher
Bluetooth®	v. 4.0 or higher

Getting Started

What's in the Box?

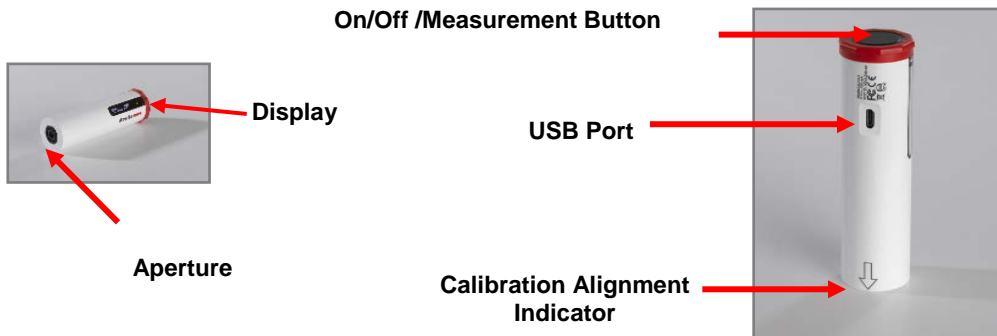
The product includes the measuring device and a carrying case that houses the accessories.

Accessories



Instrument Controls and Indicators

This section identifies all controls and indicators on the device,

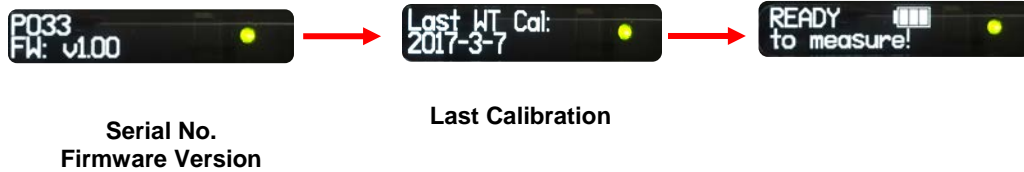


On/Off and Measurement Button

- Press the button to activate the device. The aperture at the bottom will flash.
- Press the button to measure a color.
- To turn off the device, press and hold the button until the display goes blank.

Display

At start-up, the screen briefly displays the serial number, the firmware revision number, and date of the most recent calibration. If the calibration has not elapsed, it will report that it is ready to measure.



Following a measurement, you will see the names of the 3 closest colors in the fan deck data base displayed, one-by-one. They include the collection name and color number.



Battery Information and LED Indicator

Datacolor ColorReaderPRO is equipped with a rechargeable lithium battery. A micro-USB cable is provided to charge the unit. When fully charged, the charge is good for 500 measurements.

A battery icon displays the remaining battery life. A lightning bolt appears next to the battery icon when the device is connected with the USB cable to a power source.



An LED indicator displays the current state of the device. See [Status LED](#) for details.

Cable Connections and Instrument Charging

Datacolor ColorReaderPRO has a micro USB port and a micro USB cable for charging

To charge:

- Plug the small end of the USB cable into the device.
- Plug the other end into a USB port on a computer or adapter.



Status LED

An LED indicator identifies the current state of the unit. Below is a list of possible instrument states:

LED Color	Instrument State
Off	<ul style="list-style-type: none"> • Device is not powered and is not charging
Green	<p style="text-align: center;">Solid</p> <ul style="list-style-type: none"> • Device is On and battery life is <i>greater than 10%</i> • Device is charging (refer to battery icon for charge level when unplugged).
Amber	<p style="text-align: center;">Slow blink</p> <ul style="list-style-type: none"> • Device is not being charged and battery life is <i>less than 10%</i>

Sleep Mode

Datacolor ColorReaderPRO will go to sleep when it is inactive for more than 5 minutes.



When the device is in sleep mode and you try to access it through the mobile application, it will ask you to wake the unit.

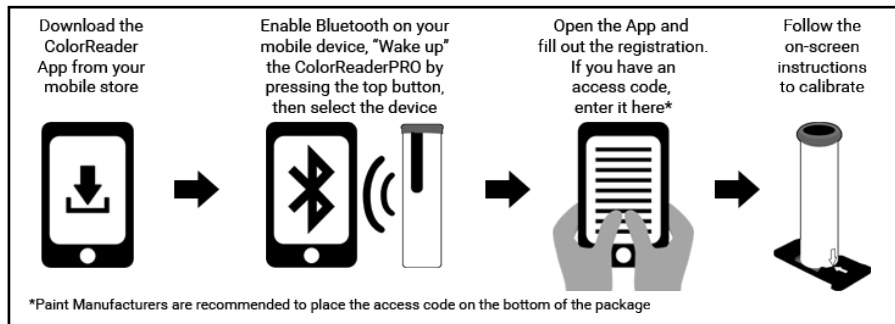
- Press the button on the top of the device.

Mobile Application

Getting Started

To install the Datacolor ColorReader mobile application:

- Install the ColorReader mobile application from the Apple App Store or Google Play Store.
- Plug in your device to charge, then Wake the unit.
- Launch mobile application.
- Register. You **must** register the product to use it.



Application Installation Information

Please visit goto.datacolor.com/getcolorreader for more installation information.

Device Registration

When you connect your charged Datacolor ColorReaderPRO to the mobile application for the first time, the software guides you through a registration process. You must register the Datacolor ColorReaderPro to use it. If you have been given an access code select *I have an access code* and enter it there.

1. Launch the Datacolor ColorReader mobile application.



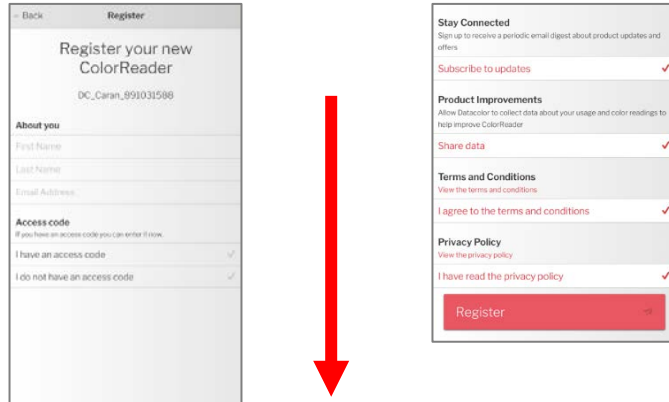
The program will prompt you to identify your device.



2. Tap on the device you are using. The program will display a registration screen.

2. Enter your contact information and user type, the access code (if you have one), scroll to the bottom of the screen to choose whether you would like to subscribe for updates and share data, and click to agree to the *Terms and Conditions* and *Privacy Policy*. Tap **Register**.

If you do not have an access code, you will need to select the region that applies to you to access your color collections.



No Access Code:



Main Screen

Below is the Datacolor ColorReaderPRO main screen. You can access the application features from the icons at the bottom of the screen.



- [Device](#)
- [Readings](#)
- [Fan Decks](#)
- [Palettes](#)

Calibration

Calibrate the device every 8 hours to account for any changes in the device over time. This ensures that the measurements remain consistent over time. The Datacolor ColorReader mobile application and the stand-alone software remind you when calibration is required. Use the mobile application to calibrate the unit.

1. After connecting, tap **Device** in bottom left corner



You will see the *Manage Device* screen.



2. Align the arrow on the white slide with the arrow on the device.



3. Tap **Calibrate**.

4. The application will report that the device is calibrated. Tap **Done** in the top left corner to return to the main screen.



Sample Measurement



1. Place the instrument aperture over the sample to be measured.

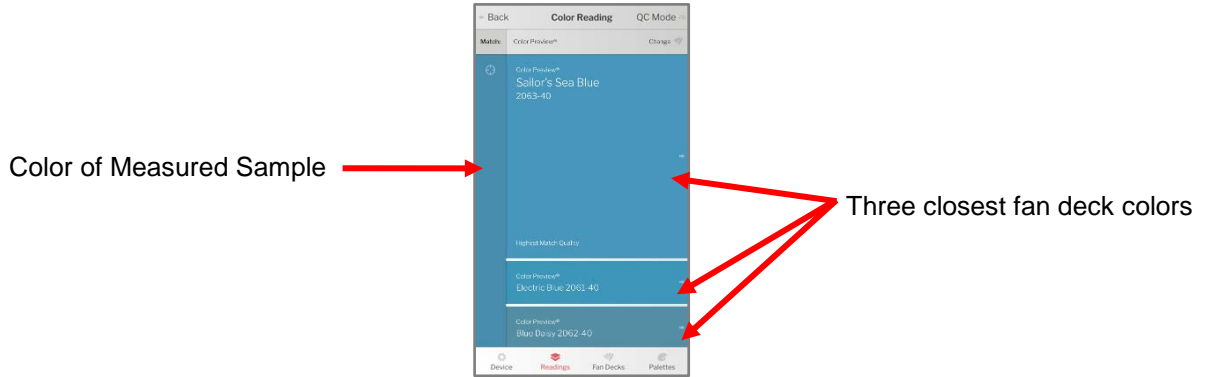
 **NOTE**

Make sure the aperture is flat to the surface and the color completely fills the aperture opening.

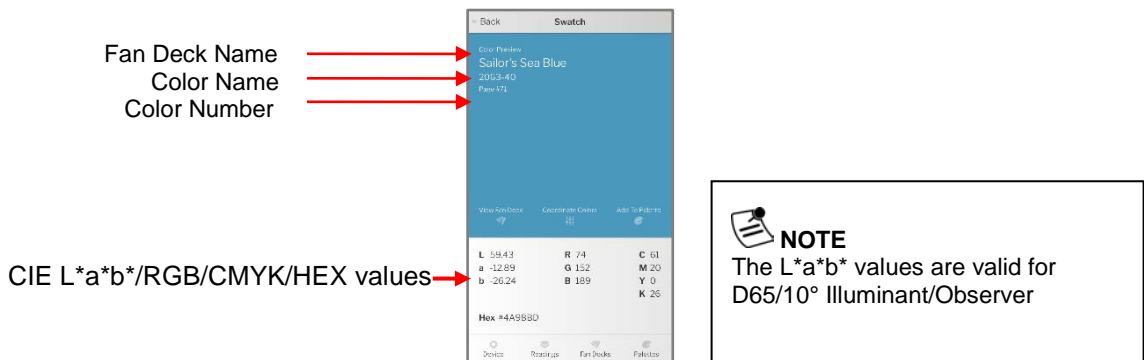
2. Press the button at the top of the instrument. The display screen and/or mobile application screen immediately displays the results.

Search Results

When you measure a sample, Datacolor ColorReader mobile application finds the closest matches stored in its fan deck database. It automatically displays the 3 closest matches on the portable device.



1. Tap one of the matches. The screen displays details about the selected color.



See [Color Lookup](#) for the search results displayed when working in stand-alone mode.

See [Add to Palette](#) for details to select a color and assign it to a palette.

Fan Deck, Palettes and Readings options

See [Fan Deck Management](#) for additional information.

See [Palettes](#) for additional information.

See [Readings](#) for additional information.

Device

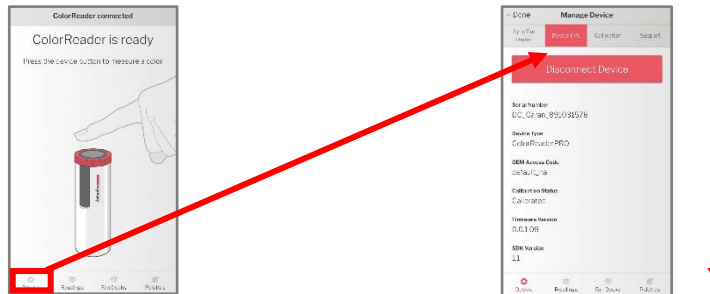
This option gives you access to the *Sync Fan Decks*, *Device Info*, *Calibration*, and *Support* options.



Device Info

Use this option to disconnect Datacolor ColorReaderPRO from the mobile application, and to confirm technical information about the unit.

1. Tap **Device**, **Device Info**. Scroll down to view all of the information.



Disconnect Device

To disconnect:

- Tap **Device**, **Device Info**, **Disconnect Device**.

Calibration

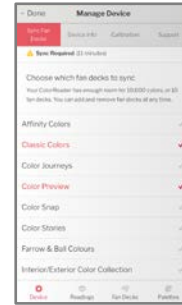
Use this option to see the current calibration status and to run the white slide calibration. See [Calibration](#) for instructions.



Sync Fan Decks

Datacolor ColorReaderPro can hold up to 10,000 fan deck colors. You use the *Sync Fan Decks* option to add or update the fan deck collections on your unit.

When you register your Datacolor ColorReaderPRO, it identifies all of the fan decks stored in the cloud that you can use. After the registration is completed, go to the *Sync* option to view the fan decks available and those that are available for you to download.



- Fan deck names in red identify the fan decks currently installed on your unit.
- Fan deck names in gray identify the fan decks available in the cloud that you can add to your device.

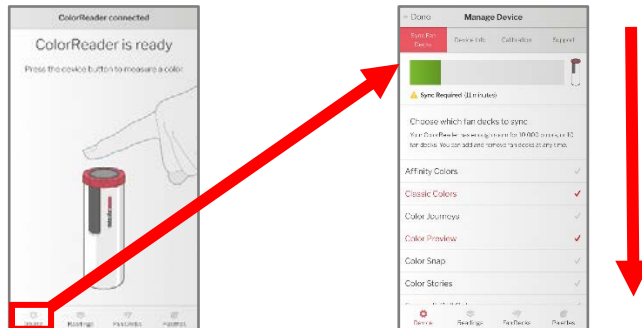
NOTE

If you purchased Datacolor ColorReaderPRO from a paint manufacturer or other 3rd party supplier, they may download fan deck data to your unit *before* sending it to you. If you find fan deck data installed on your unit immediately after registration, use the *Sync* option to add fan decks that you want to use. You can also use the *Sync* option at any time to update your fan deck data.

Add and Update Fan Decks on the Device

Use the *Sync Fan Decks* option to add or update fan deck data.

1. Tap **Device, Sync Fan Decks**. You can scroll through all of the fan decks available.



2. Tap in a fan deck name, to include/exclude it during the sync. Fan decks in red are included. Fan decks in gray are excluded.

NOTE

You can download a maximum of 10,000 colors to the device (approximately 4 fan decks).

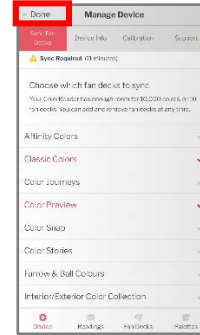
Do not interrupt sync! Closing the application or opening a notification will require you to start over.

3. Tap **Sync Fan Decks** to start the sync.



IMPORTANT

Each time you sync the device, it erases all the fan decks from the Datacolor ColorReaderPRO device. When you sync the device again, the procedure downloads all of the fan decks *selected for the current sync*. In order to maintain your existing database, **you must re-select each fan deck you have previously downloaded.**



Delete Fan Decks

You cannot delete a fan deck from the device. However, when you sync the mobile application, all fan decks are erased and only the fan decks selected will be added.



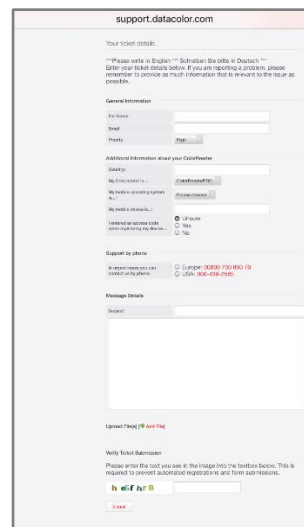
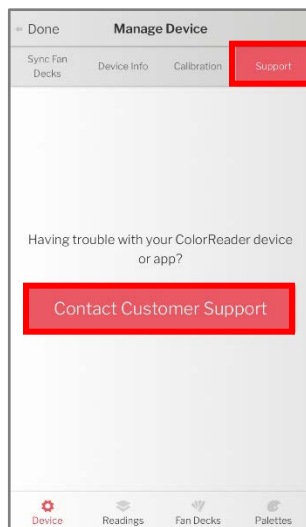
NOTE

You can deactivate a fan deck and/or add new fan decks for use at any time. If you want to update all fan decks you have been using during the sync, you must activate each of them before starting the process.

Support

Use this option to be sent directly to our Datacolor ColorReaderPRO online support site where you can submit a ticket or call our representatives for any issues you may be experiencing.

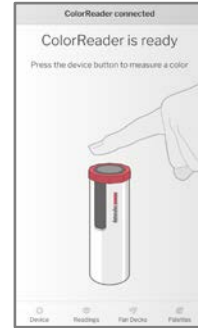
1. Tap **Device**, then **Support**. Click **Contact Customer Support** to open the support site in a internet browser window.



Manage Project Colors

Datacolor ColorReader mobile application includes three data management options: [Fan Decks](#), [Palettes](#) and [Readings](#).

- **Fan Decks.** Displays the fan decks included in the database
- **Palettes.** Displays the colors selected for each project you are running
- **Readings.** Displays the colors measured using Datacolor ColorReaderPRO



Fan Deck Management

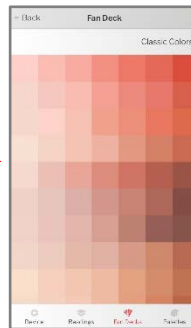
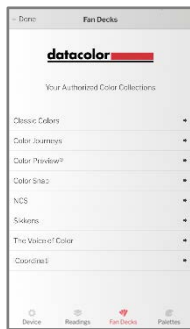
Fan Deck Management lets you activate/deactivate fan decks included in the color search.

- **Fan Deck Display.** The *Fan Decks* option at the bottom of the screen displays the fan deck colors in a visual color atlas. [See Fan Deck Display](#).
- **Fan Deck Selection.** You can enable/disable fan decks stored in the database to be used for color searches on the mobile application. See [Fan Deck Search Selection](#).

Fan Deck Display

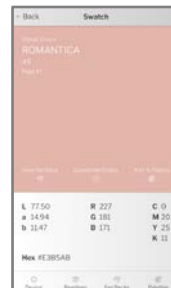
This option displays a visual atlas of the fan deck colors.

1. Tap on **Fan Deck** at the bottom of the screen, and tap one of the fan decks.
2. Tap on one of the colors on the screen.



You will see the details of the color you selected. You can add this color to a palette.

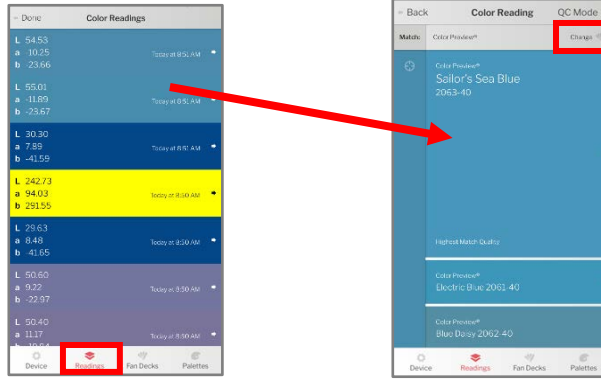
See [Add to Palette](#) for instructions.



Fan Deck Search Selection

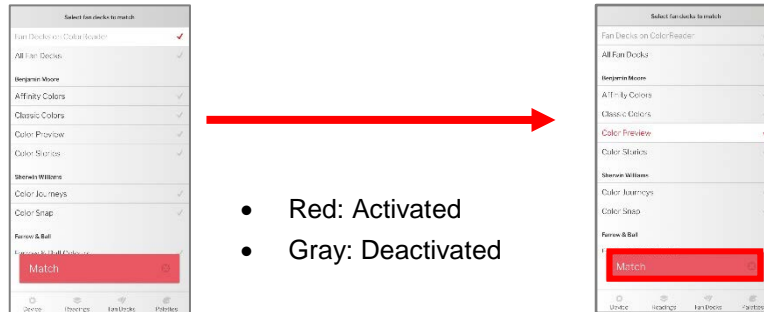
You can activate/deactivate individual fan decks used for color searches on the mobile application. To add or change the selection:

1. Tap **Readings** and select a color, 2. Tap **Change**.
or measure a color.



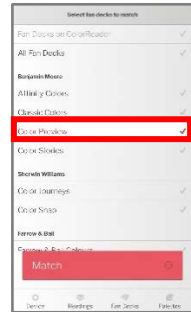
3. You will see a list of all the fan decks on the device.

4. Tap on an individual fan deck to activate or deactivate for the search. Tap **Match**.

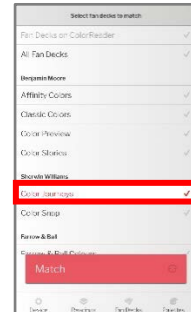


5. When you change the fan deck selection, the color suggestions change. The results on the left below are from the *Color Preview* deck. When the *Color Preview* selection was disabled, and *Color Journeys* was activated, the results were immediately updated:

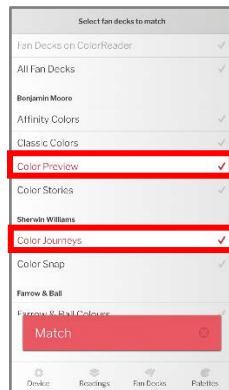
Color Preview Matches



Color Journeys Matches



6. You can select multiple fan decks for the search.



7. The application will find the best matches from *all fan decks selected*.



Palette Management

Using the Datacolor ColorReader mobile application, you measure samples and find the closest color matches in your database. When you make a final color selection, you can store it in a palette. Palettes are collections of the colors you select *for a specific project*. For example, all of the paint colors selected for a particular customer or a particular room would be included in a single palette.

The mobile application includes options to create palettes, edit and delete information for individual colors in a palette, and share palettes.

Tap on the *Palettes* option at the bottom of the screen to access all of the palette management options.

First-Time Use



When you receive your Datacolor ColorReaderPRO and tap **Palettes**, it will not include any palettes.

Create Palette

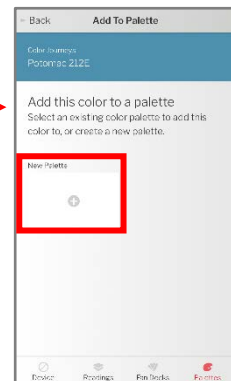
To create a palette, you must measure or select a color from the *Readings* list.



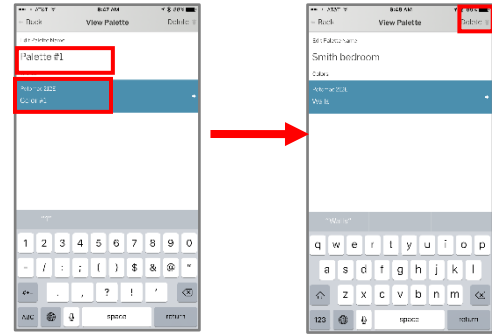
NOTE

You can create a new palette only when you are adding a color to a palette. You can add, edit, or delete palette information at any time. See also [Edit Palette Colors options](#).

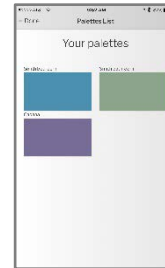
1. Measure a color or tap **Readings**. Tap a color in the list.
2. Tap one of the color suggestions.
3. Tap *New Palette*.



4. Tap in the *default palette name* field (Palette #1) to display a keyboard. Replace the default palette name with one of your choice.
5. Tap in the *default color label* field and enter a label as needed.
6. Tap **Save**.



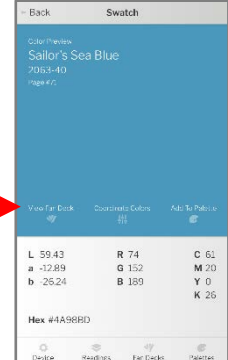
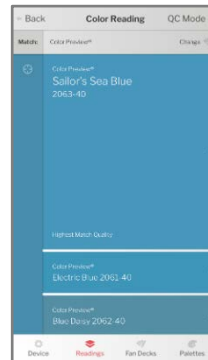
The color you added displays in the palette on the *Palettes List*.



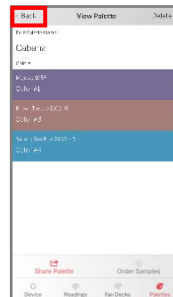
Add To Palette

To add colors to an existing palette:

1. Tap **Readings** and select one of the colors.
2. You will see three color choices. Tap one to display the details.
3. Tap **Add to Palette**.



4. Tap to select one of the palettes.
5. *View Palette* displays. Tap **Back**.
6. The color displays in the palette.



You can add a label to the color as an additional reference. See [Edit Palette Colors](#) for instructions.

 **NOTE**

There are no sub-folders within a particular palette. For example, if the project includes painting several rooms in a house, you may want to create a palette for each room if you are working with a large number of colors, or with similar color schemes in different rooms.

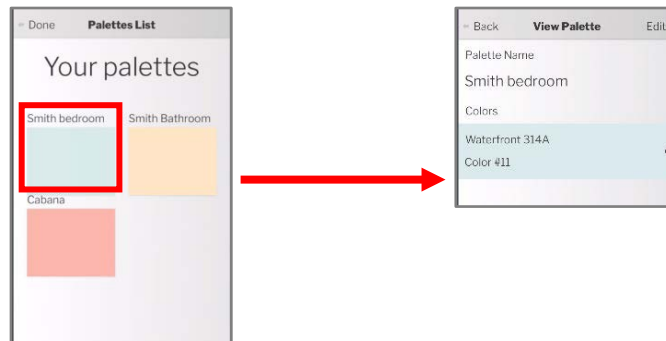


You can also use the color label to provide more detail about each color in a palette. For example, you can assign a label such as “trim” to quickly identify the application for each color selected.

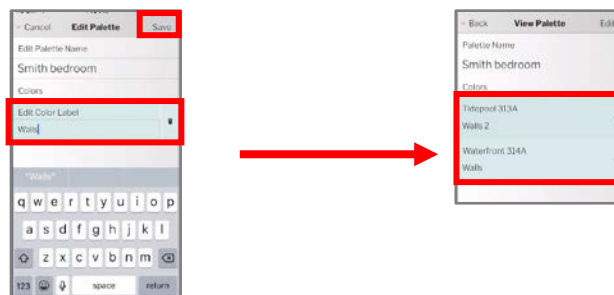
Edit Palette Colors

When you store a color, it is assigned a color label in the palette. You can customize this color label with information to help you manage the palette.

1. Tap on **Palettes**, select a palette and select the individual color to be edited.



2. Tap in the *color label* field to display the keyboard. Enter the label.

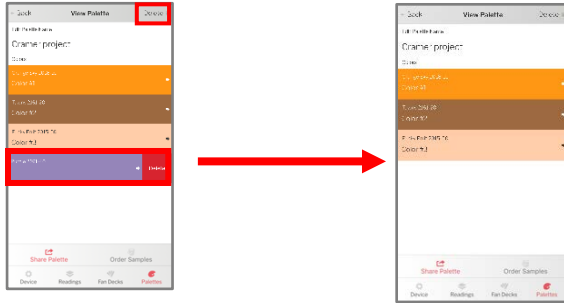


In this example, the customer has chosen two similar colors for the bedroom walls. They can make a final decision later based on color preference, cost, or availability of the materials.

Delete Palette Colors

You can delete individual palette colors at any time.

1. Swipe left (iOS) or right (Android) on the color you wish to delete
2. Press Delete.



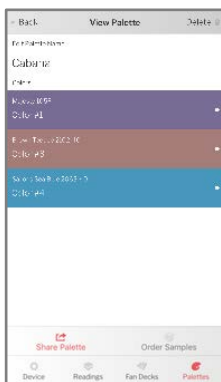
View Palettes

You can view the individual colors in a palette at any time.

1. Tap **Palettes** at the bottom of the screen to view the palettes in your system.



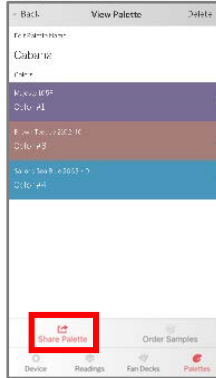
2. Tap one of the palettes to see the contents:



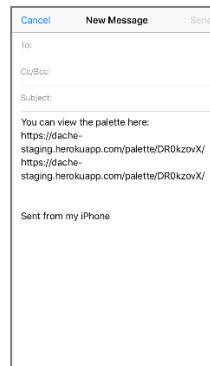
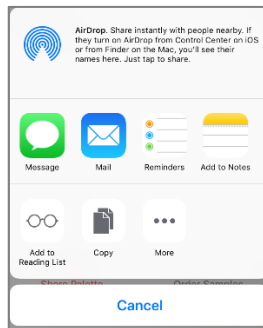
Share Palette Colors

You can share your color palettes quickly and easily to anyone through any messaging platform you have available on your mobile device.

1. Tap on **Palettes**, then select the palette you want to share.
2. Tap **Share Palette** option in the bottom left corner of the screen.



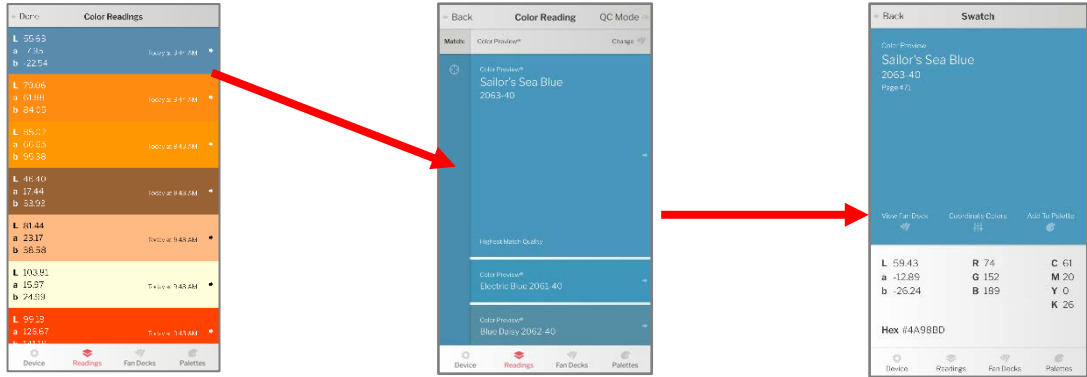
3. Choose the application you would like to use to share. A link will be created and added to the message section of your chosen platform.



Readings Management

Use the **Readings** option to display the color, color coordinates, and fan deck suggestions for each of the colors you measure.

1. Tap **Readings**.
2. Tap on one of the **color readings** to view the 3 closest matches in the fan deck database.
3. Tap on one of the matches to select it. You will see the CIE L*a*b*, RGB, CMYK, and HEX values for the fandeck color selected.



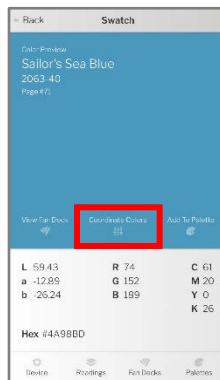
View Fan Deck

This option displays a visual atlas of the colors in the fan deck. It displays the portion of the atlas that contains the color you have selected. See [Fan Deck Display](#) for instructions.

Coordinate Colors

Use this option to view suggested color schemes for your swatch.

1. Tap **Readings**, select the swatch you want to coordinate, and tap **Coordinate Colors**.



- You have the option to view suggested color schemes for *Complimentary*, *Triad*, *Analogous*, and *Monochromatic*. You can learn more about these types of color schemes by selecting *About Color Schemes* in the bottom right corner.



- You can change a particular color suggested by tapping it, and selecting a suggested close match or change the fan deck(s) to search from. See [Fan Deck Search Selection](#) for instructions.
- Once you have decided on your coordinated colors, you can tap **Save as Palette**. See [Palette Management](#) for instructions.



Add to Palette

Use this option to store one of the color choices in a palette. See [Add to Palette](#) for instructions.

QC Mode

This option allows you to set a standard to compare readings and determine a pass or fail match.

- Tap a previous Reading or take a new **Reading** to set as your standard, then tap **QC Mode** in the top right corner.



2. You can now take readings and see if the new measurements are within a 1 deltaE of the original measurement that was set as your standard with easy to read *Pass/Fail* indicators.



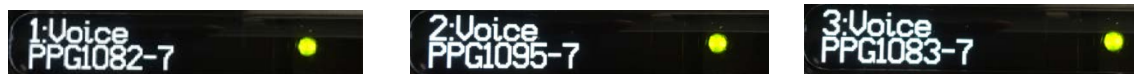
Stand-Alone Functions

Datacolor ColorReaderPRO includes stand-alone software that enables the user to perform the following functions:

- Sample measurement and color lookup
- Display device information

Color Lookup

When you are not connected to the mobile application and you measure a color, Datacolor ColorReaderPRO will display the 3 closest matches it finds on the device display. It displays the fan deck name on the first line and color number on the second line.



NOTE

When using in stand-alone mode, results are not saved in mobile application.

Sample Readings

When you measure a color and there is no fan deck database installed on the unit, Datacolor ColorReaderPRO displays CIE L*a*b* values for the sample.



Once you sync a fan deck to your device, you will not see CIE L*a*b* values. If you would like to go back to seeing only CIE L*a*b* values on the device, follow the steps below:

1. Tap **Device, Sync Fan Decks** in the mobile application
2. Select random fan decks to sync
3. Once it starts to sync, close the mobile application to disrupt the process
4. Take a measurement with the Datacolor ColorReaderPRO and you should see the CIE L*a*b* values display on the device screen
 - a. This happens because fan decks never completed the sync process

To sync fan decks again, see [Sync Fan Decks](#) for instructions.

NOTE

The CIE L*a*b* values are calculated for D65/10° Illuminant/Observer.

Appendix

Instrument Specifications

Specifications are subject to change without notice

Mobile Application Specifications

Device	Operating System
iPhone®	IOS® v. 9.3 or higher
IPad Touch®	IOS v. 9.3 or higher
Android®	6.0 or higher
Bluetooth®	v. 4.0 or higher