
Datacolor ColorReaderPRO

Model DC10-1

User Guide



Datacolor ColorReaderPRO™ User Guide

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Datacolor ColorReader PRO

Introduction

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

You can use 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. Your customer then makes final color selections *on the spot*.



Bluetooth connectivity greatly expands the flexibility of ColorReaderPRO. You can install the Datacolor ColorReaderPRO mobile application on portable devices including phones. 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 on the device.



You can also use Datacolor ColorReaderPRO as a stand-alone tool. When you measure a color in stand-alone mode, the screen displays the color numbers of the closest matches.



About this Guide

This guide covers the following:

- Datacolor ColorReaderPRO device set up and operation
- Features and operation of Datacolor ColorReaderPRO 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

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 unit include the following information:

- Instrument Model
- Ratings
- Compliance and certification information.
- These markings can be found on the outside diameter of the device.



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 app 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

USB charging cable

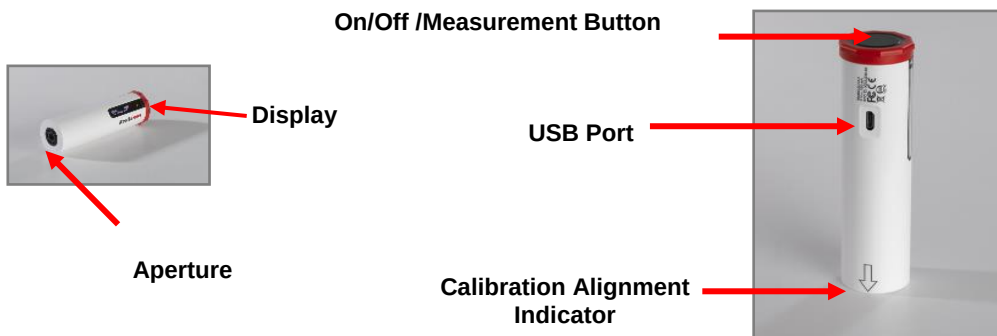


Calibration Slide
(located in sleeve inside the case)



Instrument Controls and Indicators

This section identifies all controls and indicators on the device,

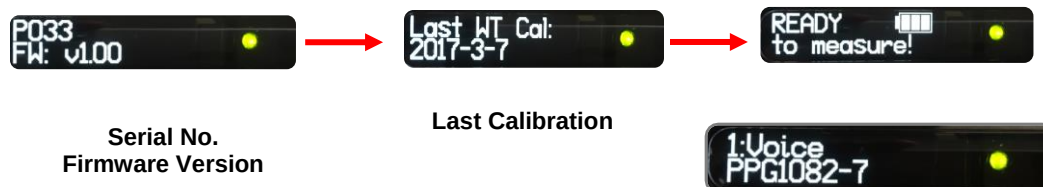


On/Off and Measurement Button

- Press the button to activate the device. It 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 the date 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 to the USB port of a computer.



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

Cable Connections and Instrument Charging

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 into an adapter for charging.



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	• Device is not powered and is not charging
Green	Solid • Device is On and battery life is <i>greater than 10%</i> • Device is charging and <i>not yet fully charged</i>.
Amber	Slow blink • 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 app, it will ask you to wake the unit.

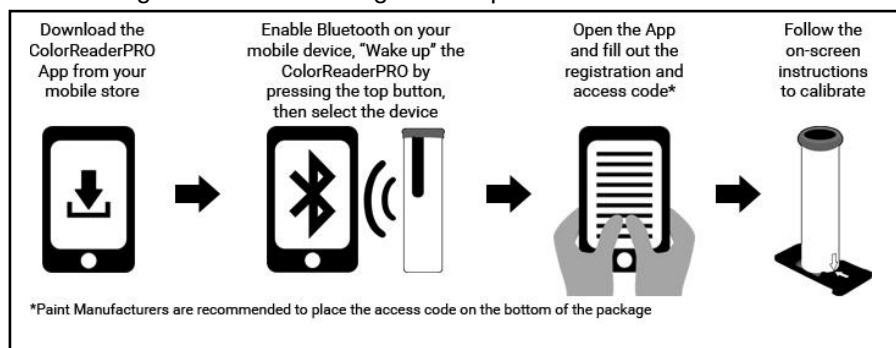
- Press the button on the top of the device.

Mobile Application

Getting Started

To install the Datacolor ColorReaderPRO mobile app:

- Locate the access code. It is printed on a sticker on the bottom of the box.
- Install the mobile application.
- Wake unit.
- Launch mobile app.
- Register. You **must** register the product to use it.



Application Installation

To install the app, please visit goto.datacolor.com/getcolorreader and follow the installation instructions.

Device Registration

When you connect to the mobile application for the first time, the software guides you through a registration process. You must register the ColorReaderPro to use it. The procedure requires the access code. This is printed on a sticker on the bottom of the box.

1. Launch Datacolor ColorReaderPRO mobile app.

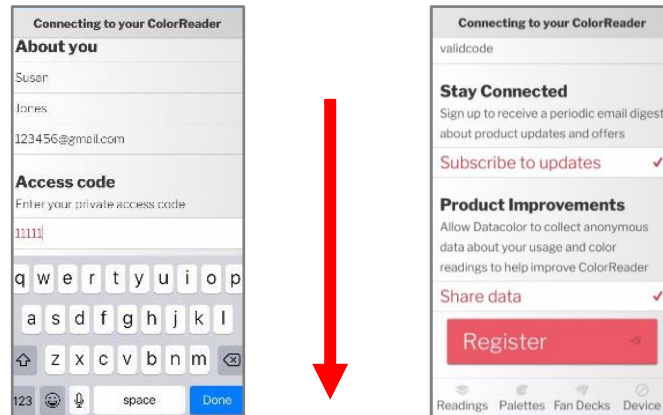


The program will prompt you to identify your device.



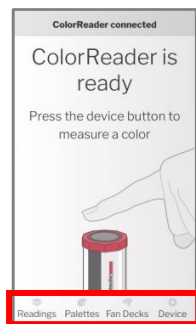
2. Tap on the device you are using. The program will display a registration screen.

2. Enter your contact information, the access code and scroll to the bottom of the screen. Tap **Register**.



Main Screen

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



[Readings](#)

[Palettes](#)

[Fan Decks](#)

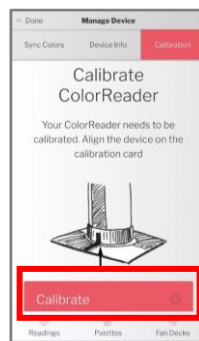
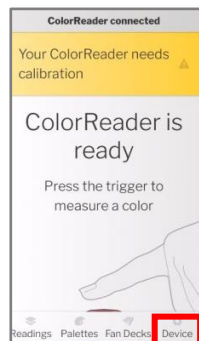
[Device](#)

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 ColorReaderPRO mobile app and the stand-alone software remind you when calibration is required. Use the mobile app to calibrate the unit.

1. Tap **Device**.

You will see the *Manage Device* screen.

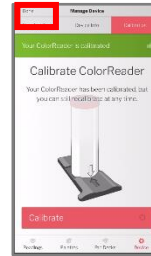


2. Align the arrow on the white slide with the arrow on the device.



3. Tap **Calibrate**.

4. The app will report that the device is calibrated. Tap **Done** to return to the main screen.



Sample Measurement



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



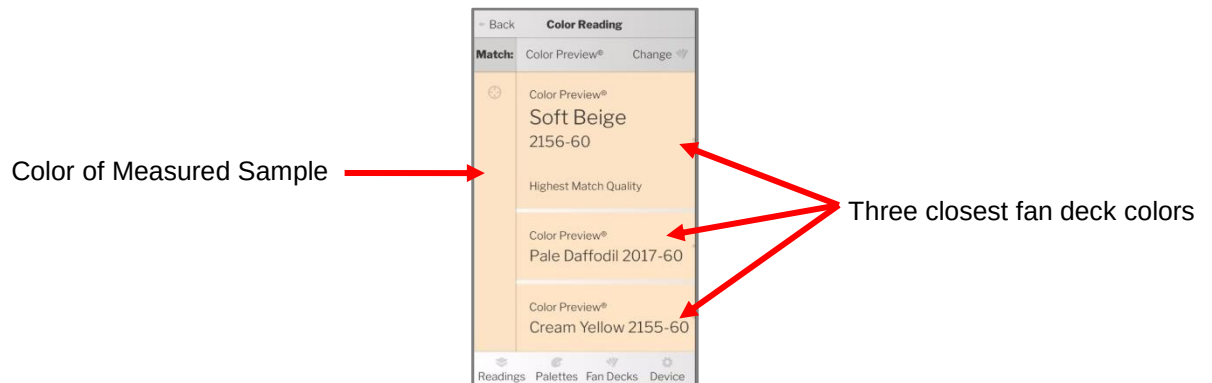
NOTE

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

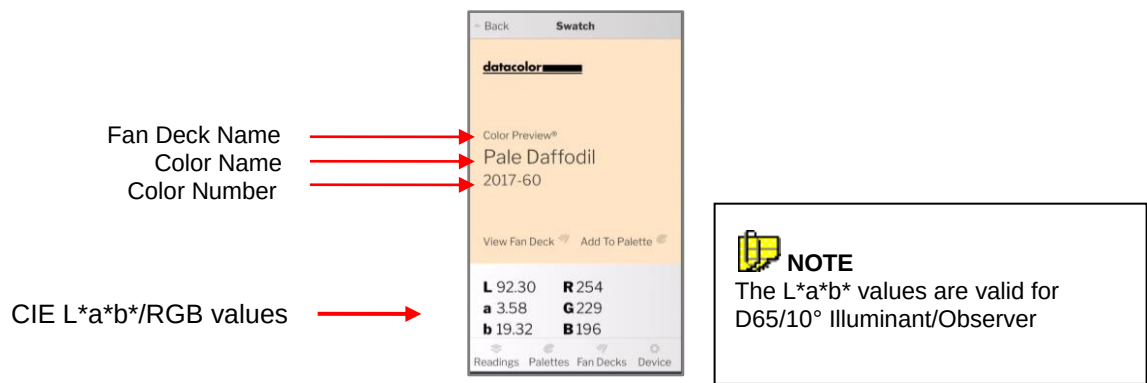
2. Press the button at the top of the instrument. The app screen immediately displays the results.

Search Results

When you measure a sample, Datacolor ColorReaderPRO mobile app finds the closest matches stored in its fan deck data base. 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.

Readings, Palettes and Fan Deck options

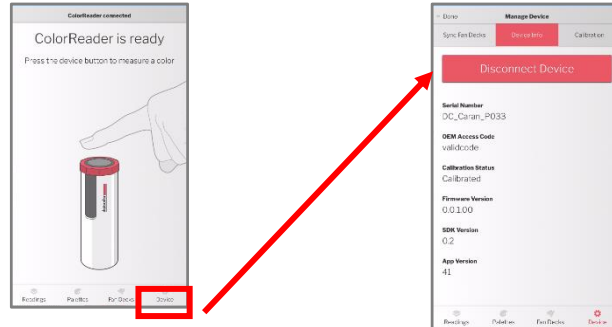
See [Readings](#) for additional information.

See [Palettes](#) for additional information.

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

Device

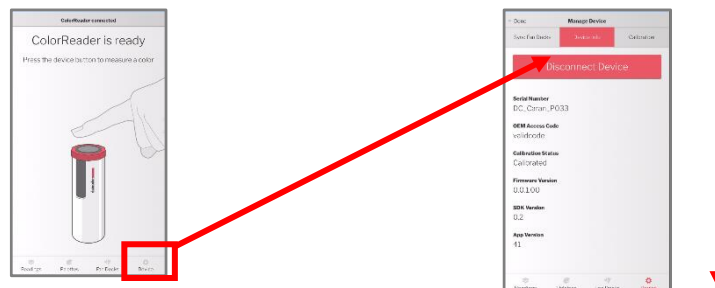
This options gives you access to the *Sync*, *Calibration* and *Device* information options.



Device Info

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

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



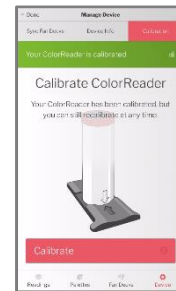
Disconnect Device

When you are finished using ColorReaderPRO with the mobile app, disconnect the device. To disconnect:

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

Calibration

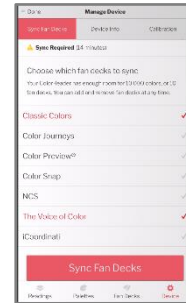
Use this option to see the current calibration status and to run the white slide calibration. See [Calibration](#) for instructions.



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 ColorReaderPro, the access code 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.



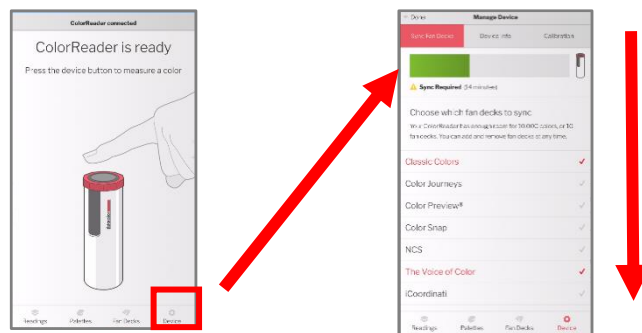
NOTE

If you purchased 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

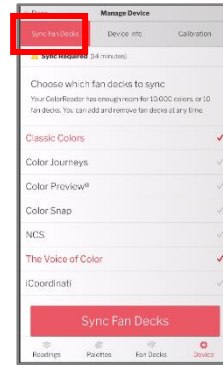
You can download a maximum of 10,000 colors (approximately 4 fan decks).

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



IMPORTANT

Each time you sync the device, it erases all of the fan decks from the 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 app, all fan decks are erased and only the fan decks selected will be added.



NOTES

You can deactivate a fan deck and/or add new fan deck 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.

Manage Project Colors

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

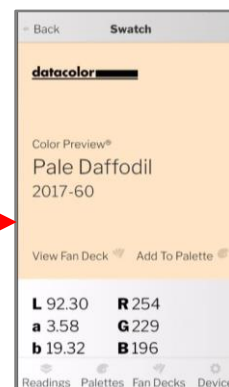
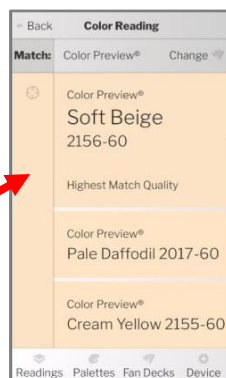
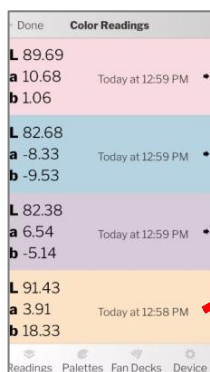
- **Readings.** Displays the colors measured using ColorReaderPRO.
- **Palettes.** Displays the colors selected for each project you are running.
- **Fan Decks.** Displays the fan decks included in the database.



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**. You will see the CIE L*a*b* and RGB values for the fandeck color selected.
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.



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.

Add to Palette

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

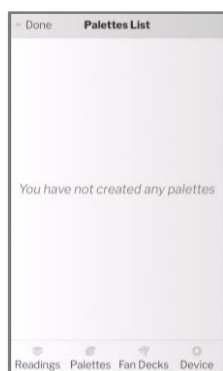
Palette Management

Using the Datacolor ColorReaderPRO mobile app, you measure samples and find the closest color matches in your database. When you make a final color selection, you store 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 app includes options to create palettes and to edit and delete information for individual colors in a palette.

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 ColorReaderPRO and tap **Palettes**, it will not include any palettes.

Create Palette

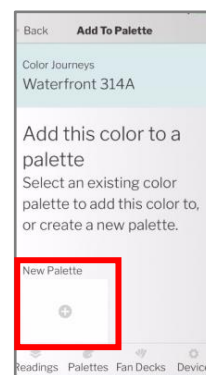
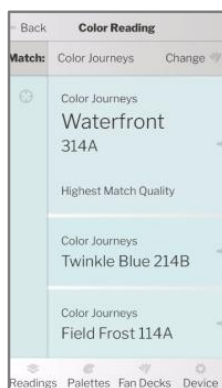
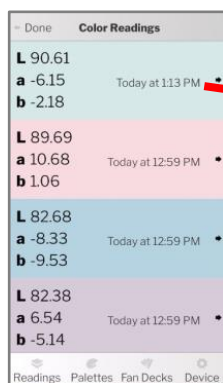
To create a palette you must measure or select a color from the *Readings* list.



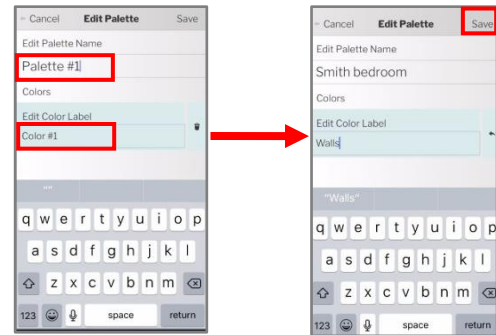
Notes

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](#).

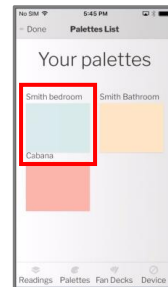
1. Measure a color or tap **Readings**. Tap a color in the list.
2. Tap one of the color suggestions.
3. Tap New Palette.



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



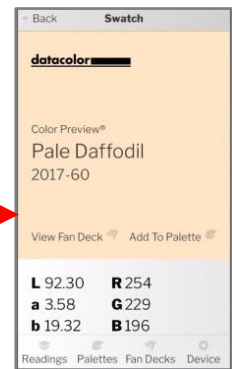
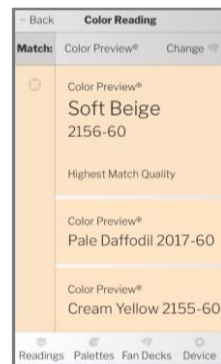
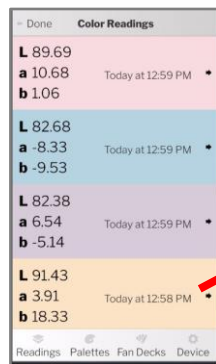
The color you added displays in the palette on the *Palettes List*.



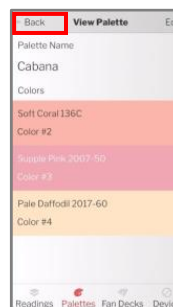
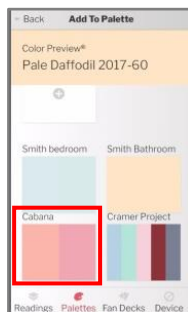
Add To Palette

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.

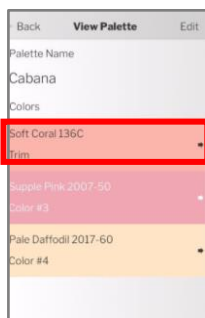
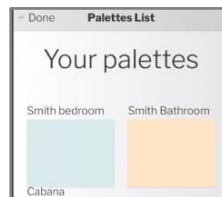


You can add a label to the color as an additional reference. See [Edit Palette Colors](#) for instructions.



TIPS

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.

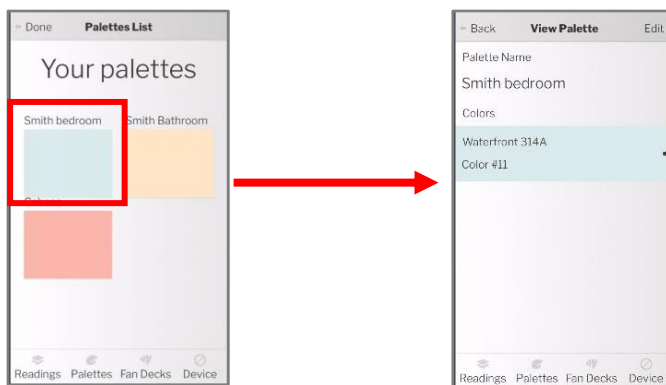


You can also use the color label to provide more detail about each color in a palette. For example you can assign a label such as “trim” to quickly identify the application for each color selected.

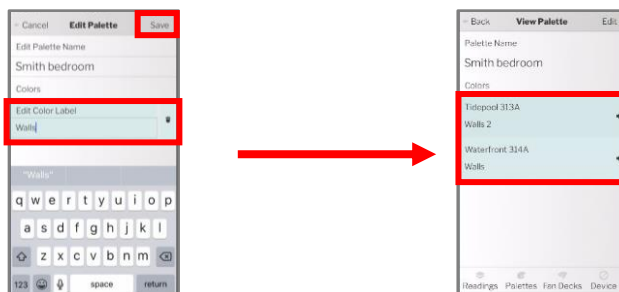
Edit Palette Colors

When you store a color, it is assigned a color label (number) 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.

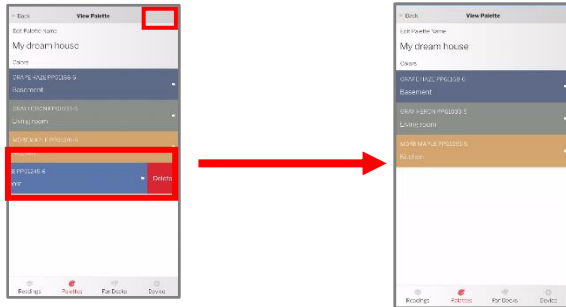


In this example, the customer has chosen two similar colors for the bedroom walls. They can make a final decision later based on color preference, cost or availability of the materials.

Delete Palette Colors

You can delete individual palette colors at any time.

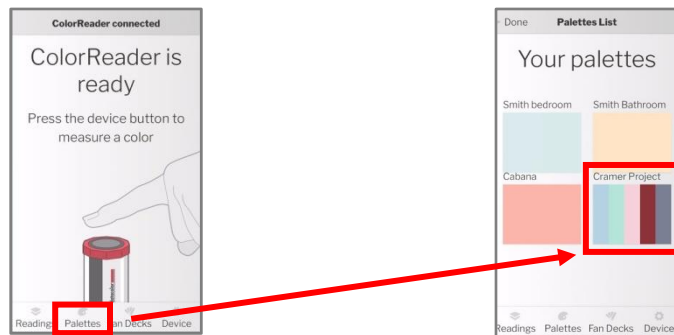
1. Swipe left (iOS) or right (Android) on the color you wish to delete
2. Press Delete.



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:



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 app. 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.

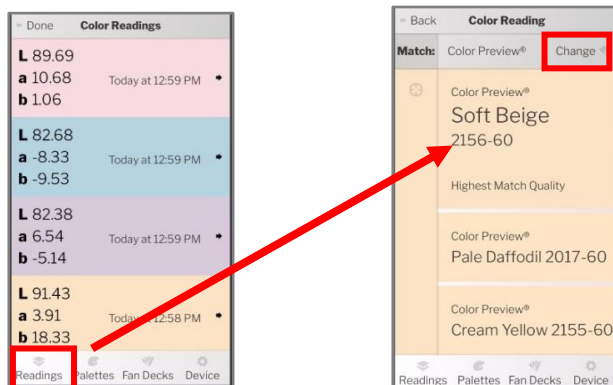
See [Add to Palette](#) for instructions.



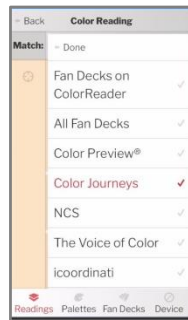
Fan Deck Search Selection

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

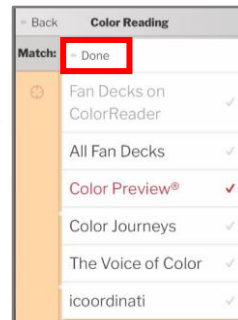
1. Tap **Readings** and select a color, or measure a color.
2. Tap **Change**.



- You will see a list of all of the fan decks on the device.
- Tap on an individual fan deck to activate or deactivate for the search. Tap **Done**.

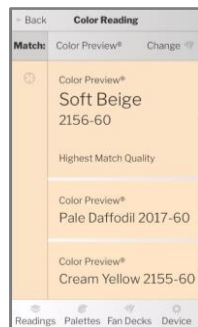
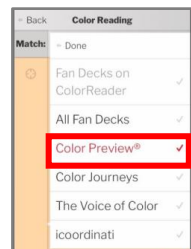


- Red: Activated
- Gray: Deactivated

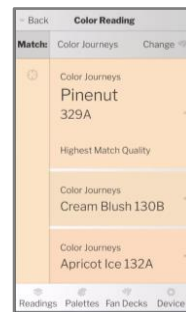
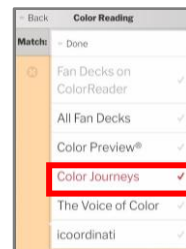


- When you change the fan deck selection, the color suggestions change. The results on the left below are from the *Color Preview* deck. When the selection was disabled, and *Color Journeys* activated, the results were immediately updated:

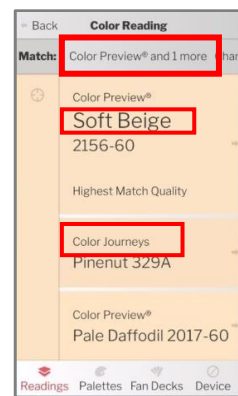
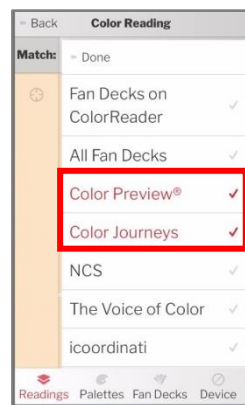
Color Preview Matches



Color Journeys Matches



- You can select multiple fan decks for the search.
- The app will find the best matches from *all fan decks selected*.



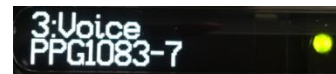
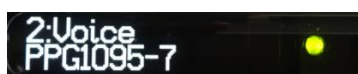
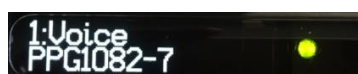
Stand-Alone Functions

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

- Sample measurement and color lookup
- Display device information

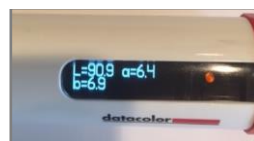
Color Lookup

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



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.



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 App 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