Datacolor ColorReaderPRO

Model DC10-1

User Guide
Datacolor ColorReaderPRO™ User Guide

All efforts have been made to ensure the accuracy of the information presented in this format. However, should any errors be detected, Datacolor appreciates your efforts to notify us of these oversights.

Changes are periodically made to this information and are incorporated into forthcoming versions. Datacolor reserves the right to make improvements and/or changes in the product(s) and/or program(s) described in this material at any time.

Copyright © 2017 Datacolor. ALL RIGHTS RESERVED. This material may not be reproduced or duplicated, in whole or in part, with the express written permission of Datacolor.

To obtain information on local agents visit our website at www.datacolor.com.

Contact Us

Please contact our service department by telephone or email for questions or problems.

http://industrial.datacolor.com/support

<table>
<thead>
<tr>
<th>Region</th>
<th>Office</th>
<th>Telephone</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>US (Lawrenceville, NJ)</td>
<td>Datacolor</td>
<td>+1 800 982 6496</td>
<td>Email</td>
</tr>
<tr>
<td>Europe (Belgium, Netherlands and Luxembourg)</td>
<td>Datacolor Belgie BVBA</td>
<td>+32 9 243 87 27</td>
<td>Email</td>
</tr>
<tr>
<td>Europe (France, Paris)</td>
<td>Datacolor SAS</td>
<td>+33 148185 480</td>
<td>Email</td>
</tr>
<tr>
<td>Europe (Germany, Marl)</td>
<td>Datacolor Marl</td>
<td>+49 2365 510950</td>
<td>Email</td>
</tr>
<tr>
<td>Europe (Italy)</td>
<td>Datacolor Italy SRL</td>
<td>+39 0362 332142</td>
<td>Email</td>
</tr>
<tr>
<td>Europe (Switzerland and Other Countries Including Middle East &amp; Africa)</td>
<td>Datacolor AG Europe</td>
<td>+41 448353711</td>
<td>Email</td>
</tr>
<tr>
<td>Europe (Turkey)</td>
<td>Datacolor Renk Teknolojileri Ticaret ve Servis Limited St.</td>
<td>+90 216 4553085</td>
<td>Email</td>
</tr>
<tr>
<td>Europe (United Kingdom)</td>
<td>Datacolor Ltd</td>
<td>+44 1619299441</td>
<td>Email</td>
</tr>
<tr>
<td>Asia (China Hong Kong)</td>
<td>Datacolor Hong Kong</td>
<td>+852 2420 8283</td>
<td>Email</td>
</tr>
<tr>
<td>Asia (China, Shanghai)</td>
<td>Datacolor Shanghai</td>
<td>+86 15 5308 6988</td>
<td>Email</td>
</tr>
<tr>
<td>Asia (India, Mumbai)</td>
<td>Datacolor Mumbai</td>
<td>+91 22 6640 4488</td>
<td>Email</td>
</tr>
<tr>
<td>Asia (Taiwan &amp; Taipei)</td>
<td>Datacolor Taiwan</td>
<td>+886 2 2321 2356</td>
<td>Email</td>
</tr>
<tr>
<td>Latin America (All Countries Except Brazil)</td>
<td>Datacolor &amp; Local Agents</td>
<td>+1 800 982 6496</td>
<td>Email</td>
</tr>
<tr>
<td>Latin America (Brazil)</td>
<td>Datacolor &amp; Local Agents</td>
<td>+55 11 3616-6438</td>
<td>Email</td>
</tr>
</tbody>
</table>
## CONTENTS

**INTRODUCTION** .......................................................................................................................... 1

  Datacolor ColorReaderPRO General Information ............................................................................. 2

**GETTING STARTED** ....................................................................................................................... 4

  What's in the Box? ............................................................................................................................ 4
  Instrument Controls and Indicators .................................................................................................. 4
  Sleep Mode ...................................................................................................................................... 6

**MOBILE APPLICATION** ............................................................................................................... 7

  Getting Started ............................................................................................................................... 7
  Application Installation .................................................................................................................... 7
  Device Registration ......................................................................................................................... 7
  Main Screen .................................................................................................................................... 8
  Calibration ...................................................................................................................................... 8
  Sample Measurement ..................................................................................................................... 9
  Search Results ................................................................................................................................. 9
  Device ............................................................................................................................................ 10
  Sync Fan Decks .............................................................................................................................. 12

**MANAGE PROJECT COLORS** ..................................................................................................... 14

  Readings Management .................................................................................................................... 14
  Palette Management ....................................................................................................................... 15
  Fan Deck Management ................................................................................................................... 19

**STAND-ALONE FUNCTIONS** ..................................................................................................... 21

  Color Lookup ............................................................................................................................... 21
  Sample Readings ............................................................................................................................ 21

**APPENDIX** .................................................................................................................................. 22

  Instrument Specifications ............................................................................................................... 22
  Mobile App Specifications .............................................................................................................. 22
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:

<table>
<thead>
<tr>
<th>Device</th>
<th>Operating System</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPhone®</td>
<td>IOS® v. 9.3 or higher</td>
</tr>
<tr>
<td>IPad Touch®</td>
<td>IOS v. 9.3 or higher</td>
</tr>
<tr>
<td>Android©</td>
<td>6.0 or higher</td>
</tr>
<tr>
<td>Bluetooth®</td>
<td>v. 4.0 or higher</td>
</tr>
</tbody>
</table>
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 /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.

<table>
<thead>
<tr>
<th>LED Color</th>
<th>Instrument State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>- Device is not powered and is not charging</td>
</tr>
<tr>
<td>Green</td>
<td>Solid</td>
</tr>
<tr>
<td></td>
<td>- Device is On and battery life is greater than 10%</td>
</tr>
<tr>
<td></td>
<td>- Device is charging and not yet fully charged.</td>
</tr>
<tr>
<td>Amber</td>
<td>Slow blink</td>
</tr>
<tr>
<td></td>
<td>- Device is not being charged and battery life is less than 10%</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Download the ColorReaderPRO App from your mobile store</th>
<th>Enable Bluetooth on your mobile device, “Wake up” the ColorReaderPRO by pressing the top button, then select the device</th>
<th>Open the App and fill out the registration and access code*</th>
<th>Follow the on-screen instructions to calibrate</th>
</tr>
</thead>
</table>

*Paint Manufacturers are recommended to place the access code on the bottom of the package

Application Installation

To install the app, please visit [goto.datacolor.com/getcolorreader](http://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.

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.**
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 option 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 on 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 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 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**

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

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

   - Red: Activated
   - Gray: Deactivated

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 selection was disabled, and Color Journeys activated, the results were immediately updated:

   ![](image1.png)

   ![](image2.png)

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

7. 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.

![Color Lookup Images]

Sample Readings

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

![Sample Reading Image]

**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

<table>
<thead>
<tr>
<th>Device</th>
<th>Operating System</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPhone®</td>
<td>IOS® v. 9.3 or higher</td>
</tr>
<tr>
<td>IPad Touch®</td>
<td>IOS v. 9.3 or higher</td>
</tr>
<tr>
<td>Android®</td>
<td>6.0 or higher</td>
</tr>
<tr>
<td>Bluetooth®</td>
<td>v. 4.0 or higher</td>
</tr>
</tbody>
</table>