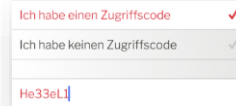
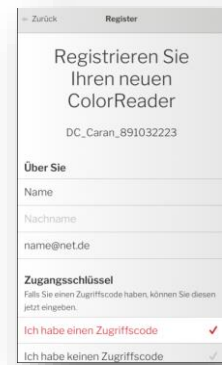
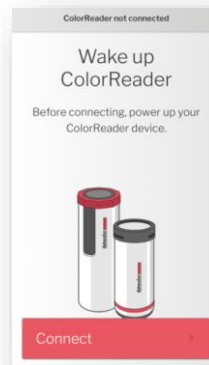


## Details on the ColorReader

<p><b>Scope of supply</b></p> <ul style="list-style-type: none"> <li>- ColorReader</li> <li>- USB-Charge cable</li> <li>- Belt bag with calibration plate</li> </ul>	
<p><b>Equipment benefits</b></p> <ul style="list-style-type: none"> <li>- Fits in any handbag, pants- or jacket pocket</li> <li>- Easy 1-button-control</li> <li>- An App makes it easy to find colours, eliminates annoying and time-consuming browsing and searching in colour fans</li> <li>- Finds colour tone within 1 second</li> <li>- Perfect for customer pitches or on building sites</li> <li>- Low price</li> <li>- No further costs by operating the tool. License fees are included in the purchase price</li> </ul>	
<p><b>Target group</b></p> <ul style="list-style-type: none"> <li>- Joineries, interior fittings, fair construction, architects, ...</li> <li>- For quick search of colours</li> </ul>	

### Installation of the App and start-up

- Works with an App (Android or Apple). Freeware. Search on App Store for „Colorreader“.
- Installation on smartphone or tablet computers.
- The reader is loaded with the USB cable. Charge time about 1h. (the battery lasts up to 2 days, depending on use)
- Switch on the reader by pressing the button
- Connect the reader
- For the first use, enter the Hesse activation code:
- Every smartphone or tablet can only be used with one ColorReader. If you want to use another ColorReader, you must delete the App from the smartphone or tablet before you download it again.
- Every ColorReader can be used with several smartphones/tablets, but only one device can be connected to the ColorReader.

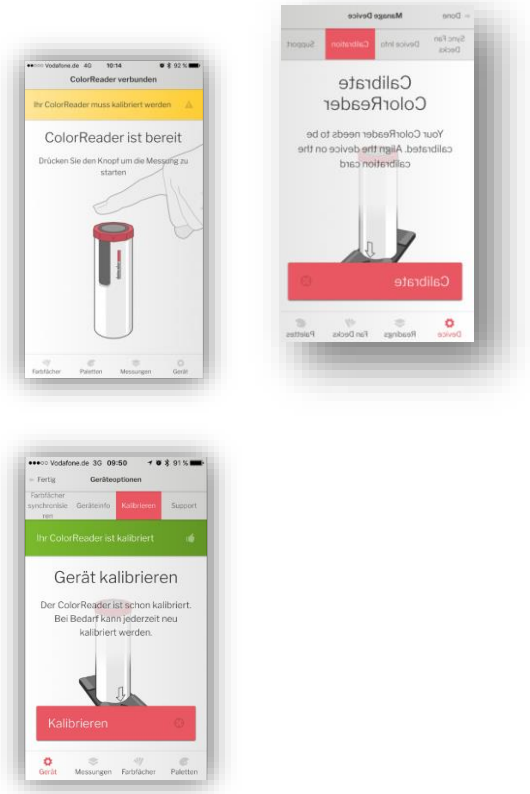


### How the reader works:

- Colour measurement (LED-technology)
- Data transfer via Bluetooth to the Smartphone-App
- Comparison to colour card data, which are retrieved from a cloud.

### Calibration

- The App reminds the user to perform a calibration of the reader
- For this, place the reader on the calibration plate and press the measure button

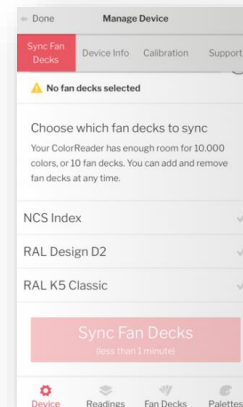


### Synchronizing colour cards

- Synchronize the colour cards before first use and in regular intervals

#### Data:

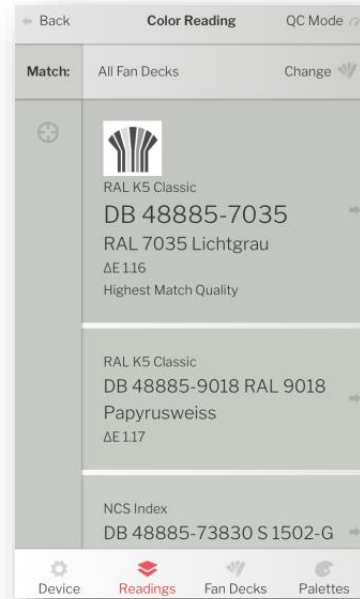
- NCS S
- RAL Design
- RAL Classic



### Features of the App

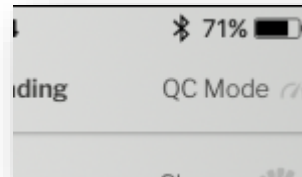
#### Search colour:

- Place the ColorReader on the sample, press the button – Display App:
- Left colour = measured colour
- On the right, there are 3 colours, which come closest to the sample's colour. The top colour is the best one.
- The metrological difference is indicated as  $\Delta E$ -value



### Usage for colour comparison:

- Measure a colour tone in comparison with a standard one:
- Select a colour tone
- Change to QC mode
- Carry out another measurement
- Display of the colour distance

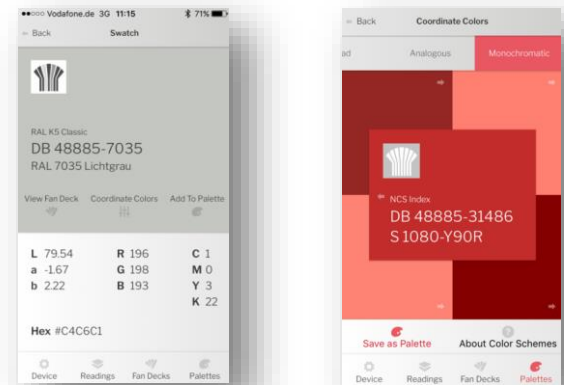


## Updates

- As usual for all Apps, this one will be regularly updated.
- Colour cards must be synchronized in regular intervals

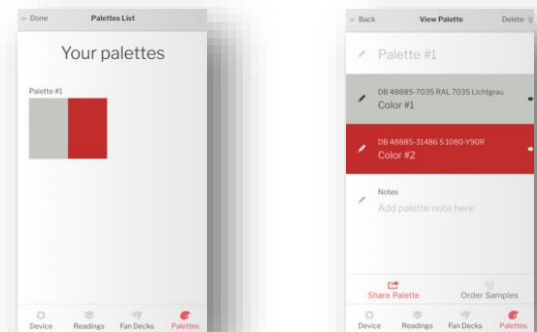
## Display of details/colour values:

- Clicking one proposal opens the card colour: Display of the Hesse product number, display of the colour values: Lab, RGB, Hex, CMYK. Here, you can add the colour to a collection.
- Display of colours according to different schemes for colour consulting
- Display of the Hesse product number: You will see the product number of the FANTASTIC COLOR DB 48885-(colour tone). Of course, you can also order the number of another lacquer system; the number of the colour tone remains the same: e.g. DB 555-20018 or DB 45245-20018



## Creating of collections (files).

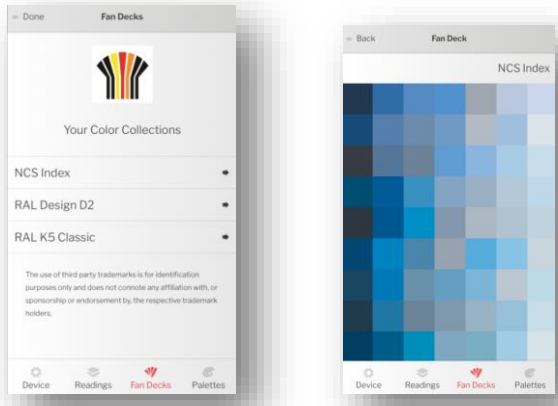

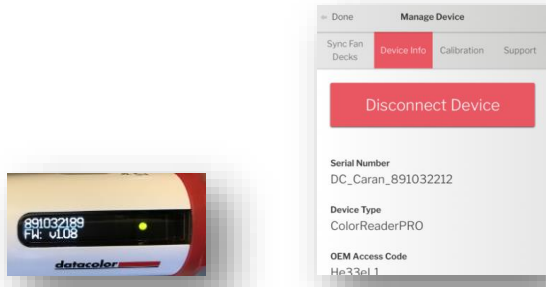
- This way you can assign measured colours e.g. to customers.
- You can assign names to all colour tones, which are recorded in the collections and you can add notes to every collection.

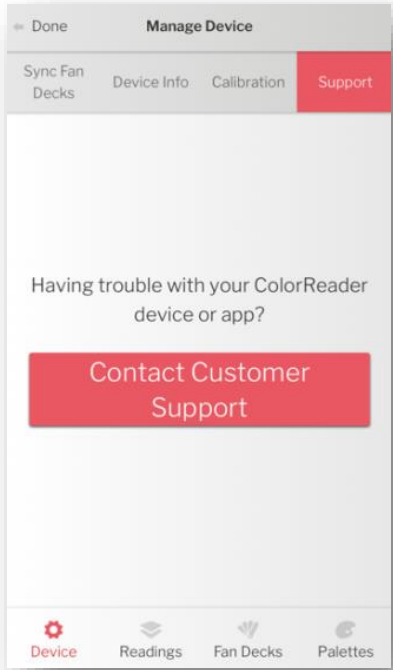


## History:

- All measured colours are recorded under „measurements“. Measured Lab-values are displayed.



<p><b>Colour cards</b></p> <ul style="list-style-type: none"> <li>- Currently included cards: RAL K5 Classic, NCS-S, RAL Design</li> </ul>	
<p><b>Display</b></p> <ul style="list-style-type: none"> <li>- The reader can make measurements without using the App. All 3 results will be shown in order 1 to 3</li> <li>- In the normal status, the charge level of the battery is displayed</li> </ul>	
<p><b>Serial number</b></p> <ul style="list-style-type: none"> <li>- Each device has a unique serial number. This is briefly displayed when switching on.</li> <li>- If the device malfunctions, this code is required by the company Datacolor for activation</li> </ul>	
<p><b>Accuracy:</b></p> <ul style="list-style-type: none"> <li>- is amazingly good indeed for the relatively simple colorimetry</li> <li>- Very little difference between the devices</li> <li>- Best results on flat, coloured surfaces</li> <li>- On textured or printed surfaces, the results are deviating more strongly</li> <li>- Metamerism is disregarded</li> <li>- If a colour tone must exactly fit 100%, it must still be adjusted in our laboratories</li> <li>- Colour deviations on different colour cards cannot be ruled out and must therefore be expected with the ColorReader, too.</li> </ul>	
<p><b>Further information</b></p> <ul style="list-style-type: none"> <li>- Youtube Video <a href="https://www.youtube.com/watch?v=xPboDLbYQuU">https://www.youtube.com/watch?v=xPboDLbYQuU</a></li> </ul>	

<p><b>Purchase of the device</b></p> <ul style="list-style-type: none"> <li>- You can order the ColorReader from Hesse or from participating dealers</li> <li>- Order number: XDCCR</li> </ul>	
<p><b>Disorders</b></p> <ul style="list-style-type: none"> <li>- If the connection is disrupted:             <ul style="list-style-type: none"> <li>o Check the Bluetooth connection of your smartphone</li> <li>o Delete and reinstall the app</li> <li>o If the specified color charts are missing, you must enter the Hesse access code when reinstalling</li> </ul> </li> </ul> <p><b>Support</b></p> <ul style="list-style-type: none"> <li>- Contact Customer Support via App</li> </ul>	 <p>The screenshot shows the 'Manage Device' screen in the Hesse Lignal app. At the top, there is a 'Done' button and the title 'Manage Device'. Below the title, there are four menu items: 'Sync Fan Decks', 'Device Info', 'Calibration', and 'Support'. The 'Support' item is highlighted in red. The main content area displays the text 'Having trouble with your ColorReader device or app?' followed by a large red button labeled 'Contact Customer Support'. At the bottom, there is a navigation bar with four icons: 'Device' (gear), 'Readings' (hand), 'Fan Decks' (fan), and 'Palettes' (palette).</p>

Our technical information is continually adapted to keep up to date with the latest technology and statutory regulations. The indicated values are no specification, but typical product data. The latest version is always available online at [www.hesse-lignal.de](http://www.hesse-lignal.de) or talk to your local account manager. This information is for advice and is based on the best knowledge available and careful research in line with the current state of the art. This information cannot be held as legally binding. We also refer you to our terms and conditions of business.