

# OnColor Match

## Quick Start Guide V6.x



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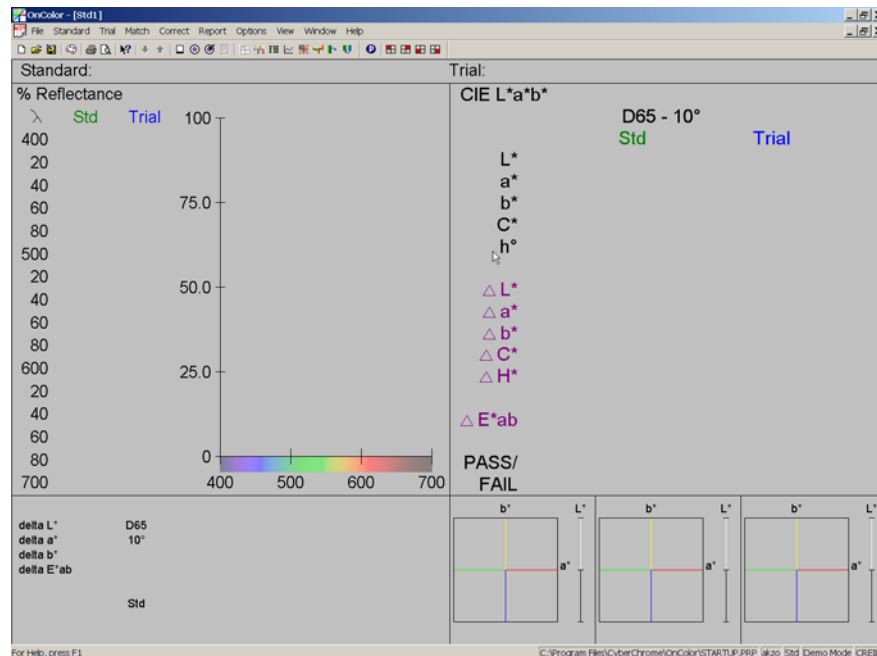
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## OnColor QC – Quick Start Instructions

A complete OnColor User's manual is included on your installation CD. It was copied to your hard drive during installation of the software and a shortcut to open it was placed on your Windows desktop. Look for the MS Word document called "OnColor Manual v6x.doc". A shortcut to this Quick Start Guide was also placed on your Windows desktop.




### OnColor QC Overview and Quick Start:

1. Follow the instructions in the installation brochure to install the OnColor software that came with your software package. **AFTER you install the software** attach the Hardlock key to the USB port on your computer. Start the OnColor software by double-clicking on the icon on your desktop that looks like this:
2. You will see a splash screen of the OnColor logo followed by the default User Screen. The default User Screen will look similar to this for spectrophotometers:




3. For colorimeters such as the CR-400 or CR-300 series, the default screen only shows two of these quadrants.
4. Before you can begin taking measurements with your color instrument, you must connect the instrument to a serial or USB port on the computer and establish communications. See the section below on "Establishing Communications with your Color Instrument".
5. Calibrate your instrument according to the section below entitled "Instrument Calibration". Your instrument manual will give you detailed instructions on how and when to perform correct calibration. To start the calibration procedure in OnColor, simply type "C" or click on the Calibrate icon on the tool bar. If you need to change the set-up of the instrument, go to Options → Instrument Settings. See the section below for more detail.



6. You are now ready to begin taking measurements. You must always start by declaring a Standard (either by measuring, recalling, or keyboard entering it). To measure a Standard, type “S” on the keyboard or click on the Measure Standard icon on the tool bar. Enter a name for this color and then position the sample at the measuring port of the instrument. Press “Enter” or click on the OK button to initiate the reading. 
7. You will see the addition of the measurement data to the User Screen.
8. To compare another sample to this Standard, you will designate it as a Trial. To measure a Trial, type “T” on the keyboard or click on the Measure Trial icon on the tool bar. Enter a name for this sample and then position it at the measuring port of the instrument. Press “Enter” or click on the OK button to initiate the reading. 
9. You will see the addition of the measurement data to the User Screen and will note that the data for the Trial is compared to the Standard and color difference is calculated.
10. You can continue measuring other samples as Trials against this Standard. OnColor will handle an unlimited number of trials compared to one Standard. Use the ↓ and ↑ arrow keys on the keyboard or the toolbar to scroll through the different Trials. 
11. You can save this data to a file by clicking on File → Save. The data is then saved to a save-set file (WSV format). See the section below on Save-Set files for more description.
12. To enter a new Standard, click on File→ New to open a new document. Follow steps 6 – 11 above to measure a new set of samples. OnColor works with multiple documents or pages of data open at a time.

## About Report Properties

Depending on the level of OnColor license that you have obtained, up to six different QC report screens are available to display your color data. You can change from one report to another by clicking on any of the following icons on the tool bar. These are called report screens. 

The look and layout of each Report screen can be changed or customized to your preferences. The design of each screen is saved into a template called a Report Property. This template or .PRP file does not change or affect your data. It only changes how and where it is displayed on the various Report screens. The Save-set or WSV file contains the actual data.

You can create and store as many templates or PRP files as you can imagine, but the most important one is the one called STARTUP.PRP. This template is the one that is applied every time OnColor is started. It is the default property file. You can make changes to the lay-out or template and save them by going to Report → Save Properties As and then saving your new design as STARTUP.PRP. Or, you can give it a different name and apply this template by clicking on Report → Recall Properties and then selecting the name of the PRP file that you gave it.

One item that you will want to change immediately in all Property files is your company name and address. This is changed by clicking on File → Page Setup. Enter the new information for your company name, address, and comment and then make the change permanent by saving your STARTUP.PRP file again. You can also add your company logo for the print-outs by checking the box. You will also need a JPG, BMP, or GIF file of the logo. You must point to its location using the option View—Logo File where you browse and point to the location of the file on your computer.

As a general rule, you can change any item or “setting” on the report screen by double-clicking directly on the object that you want to change. For example, to change the Color Space or Illuminant or Observer, double click on the item that you want to change. This will bring up a Properties dialog box where you can make your new selection. To change the lay-out of the screen, double-click on a blank area of the screen and the appropriate dialog box will appear where you can change the lay-out of that report screen. This applies not only to the User Screen, but also to all other Report Screens. Double-clicking on the name of the Standard or Trial will bring up an Edit dialog where you can change the name or other data associated with this measurement.



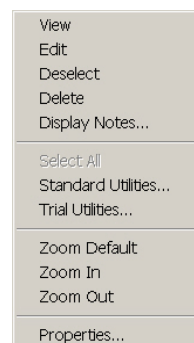
On the tool bar, you can also click on this icon to change the Report Properties:

On the User screen, you can resize the quadrants by hovering the mouse on the quadrant splitters and click and drag the lines to the new position. If you hover over the intersection of the splitters, the cursor will change to a + sign and you can click and drag both directions at once.

## OnColor Navigation Aids

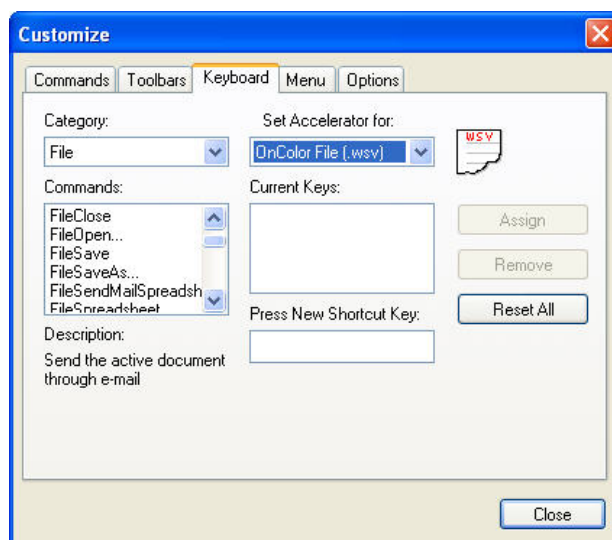
Once you have calibrated your instrument and measured a few samples into a Save-Set, it's easy to navigate through OnColor. Several Navigation Aids are available to streamline the use of OnColor.

1. Use the ↓ and ↑ arrow keys on the keyboard or on the toolbar to scroll through the different Trials.
2. Right click on any screen to bring up a shortcut menu for the most common options. On the QC Report screens, this includes these options at the left:
3. On the Color Plot or Spectral Plot report screens you can use the Zoom features to zoom in or out on any portion of the graph.
4. Display the name of any Standard or Trial by gliding the mouse over that point.
5. Double click on any data point to bring up the Edit dialog box where you can change it.
6. Double click on any graph to bring up the change Properties dialog box where you can configure the type of data that you want to display.
7. All of these options are also available via the Menu options.
8. Use the Keyboard Shortcuts described below to get single keystroke access to the most commonly used commands.
9. Remember that if you make any changes to the screen design and you want to make those changes permanent, then you need to save the Property file (under Report-->Save Properties As). You can save it as STARTUP.PRP as the default or give it another name.



## Keyboard Shortcuts:

OnColor allows the user to create and modify existing keyboard short cuts. These short cuts can be modified or viewed by selecting **View→Keyboard Shortcuts**. Select a Menu category (such as File, Standard, Trial, etc) from the drop down list and then under the Commands window, click on the option that you want to create the shortcut to. In the Press New Shortcut Key box, type the keystroke that you want to assign. It is not case sensitive and function keys are allowed along with the use of CTRL and ALT. Click on Assign button and your shortcut is created. You can assign additional shortcuts at



this point.

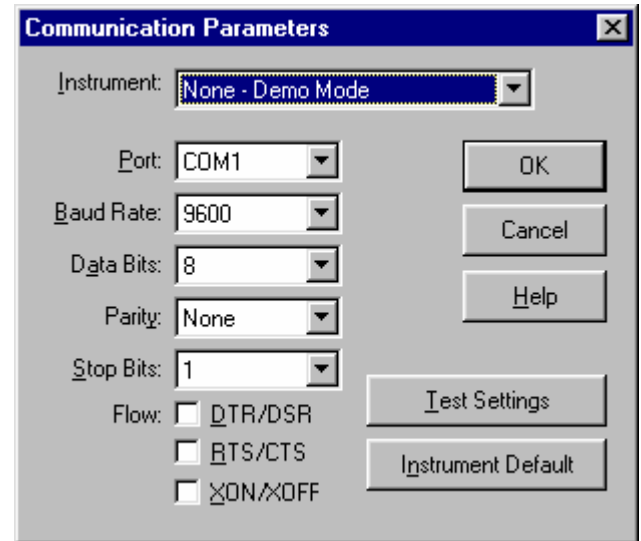
OnColor comes pre-configured with a few basic shortcut keys. You can add to these or modify them to suit your application:

C = Calibrate	S = Standard Measure	T = Trial Measure
D = Database of Standards	F1 = Help	F2 = Standard Save
F3 = Trial Save	F4 = Standard Recall	F5 = Trial Recall
F6 = Search		

You can set-up your own short-cut keys to further customize OnColor for your application and to streamline your procedures.

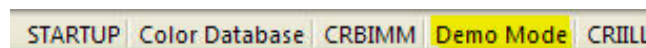
## Establishing Communications with your Color Instrument

1. Make sure your Spectrophotometer or Chroma Meter is turned on and attached to the serial port or a USB port and then launch the OnColor program.
2. Go to Options and select Communications. The following text box will appear.
3. Select your Instrument type from the Instrument list.
4. Identifying which Port the instrument is connected to is critical. If using a serial to USB adapter, please pay attention when the USB driver is installed and note what port was assigned to it. You will need this information here. You can also look in the Windows Control Panel Device Manager to find this information.
5. Click on Test settings.
6. A text box will appear telling you if you have successfully communicated with your instrument.



### Hints and Reminders:

1. OnColor recognizes Com1-99. Make sure you know what Com port your instrument is assigned to.
2. Some instruments store the white calibration data in the memory of the instrument while others use an external file to store it. If your instrument requires some external files, you will need to copy those files to an appropriate directory for OnColor to find them.
3. If you can't establish communication and you feel that all the parameters are correct try toggling the power on the Spectrophotometer and hit test settings again.
4. An in depth discussion and troubleshooting guide for establishing Communication can be found in OnColor help. This topic is found by selecting the help drop down menu, index, and finally select the topic "establishing communication with a spectrophotometer."
5. Demo mode is the default mode when no instrument is connected to the software. Always insure that the proper instrument communication is established. The instrument type currently active is displayed in the bottom right corner of the OnColor program as shown in the highlighted area below.



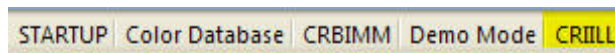
## Instrument Calibration:

### Quick Steps:

1. Type the letter "C" or click on the Calibrate icon on the toolbar and the software will ask you to perform a zero or black calibration.
2. If your instrument is equipped with a black trap position the trap over the instrument port and hit ok.
3. The software will then ask you to perform a white calibration. Position your white tile over the instrument port and hit ok.
4. The software will give a successful calibration message.

### Hints and Reminders:

1. The instrument settings allow a user to change the area of view, Specular component, and # of flashes per measurement. Go to Options-->Instrument Settings to change the setup of the instrument. The current settings are always shown in the Status bar in the highlighted area shown below:

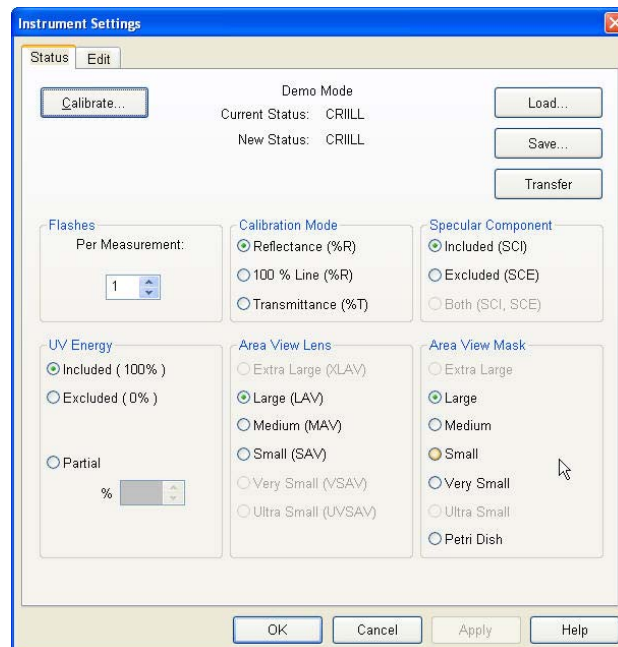


2. For a detailed description of the Instrument settings options look under the help Index and selecting the following string of topics: Help, Index, Options menu, Calibration, and Instrument Calibration and setup dialog.

## Instrument Settings:

### Quick Steps:

1. Go to Options → Instrument Settings.
2. A dialog box similar to the one at the right will allow you to change the set-up conditions for your instrument. Not all options are available for all instruments.
3. Select the conditions for measurement and then click OK or click on Calibrate to proceed with the calibration procedure.





**Hints and Reminders:**

1. An Instrument status code appears in the lower right corner of the screen. It is composed of three boxes; in the left and right boxes you will find a 6-letter code. The code in the left box refers to the instrument conditions under which the current standard was measured. The code in the right box refers to the current conditions of the instrument. In the center box the instrument model appears. If the instrument is set to Demo Mode, then the computer is NOT communicating with an instrument and you need to go to Options → Communications to establish communications with your instrument.

### Instrument Status Codes

Position	Letter	Meaning
1	B	100% Line Calibration
	C	Ceramic Calibration
	H	Hitch Calibration
	K	Keyboard Input
	L	Low Illumination Calibration
	X	Not Calibrated
2	R	% Reflectance
	T	% Transmission
	P	Profiled %R
3	I	Specular Component Included (Gloss Included or SCI)
	E	Specular Component Excluded (Gloss Excluded or SCE)
	B	Both SCI and SCE
4	A	Extra Filter
	E	UV Component Excluded
	F	UV Component Excluded w/420nm Cutoff
	G	UV Component Excluded w/400nm Cutoff
	I	UV Component Included
	P	Partial UV
	Q	Partial UV w/420nm Cutoff
	R	Partial UV w/400nm Cutoff
5	X	Extra Large Lens
	L	Large Aperture lens setting (LAV)
	M	Medium Aperture lens setting (MAV)
	S	Small Aperture lens setting (SAV)
	V	Very Small Aperture lens setting (VSAV)
	U	Ultra Small Lens
6	X	Extra Large Mask (XAV)
	L	Large Area of View mask (LAV)
	M	Medium Area of View mask (MAV)
	S	Small Area of View mask (SAV)
	V	Very Small Area of View mask (VSAV)
	P	Petri Dish Accessory (CM-3500d only)
	U	Ultra Small Lens

**Hints and Reminders:**

1. When recalling a standard, always check the instrument status box to the left of your instrument type; this displays the instrument status originally used to measure the standard.
2. Always compare a standard to a trial with the same instrument status.

## Tool bar icon descriptions:

The toolbar is displayed across the top of the application window, below the menu bar. The toolbar provides quick mouse access to many tools used in OnColor and Colorant Analysis.



Icon descriptions: (listed left to right)

1. Open a new data file.
2. Open an existing data file.
3. Save the active data file.
4. Opens print dialog box.
5. Print preview the active data file.
6. Context sensitive help.
7. Show the next trial.
8. Show the previous trial.
9. Calibrate.
10. Measure Standard.
11. Measure Trial.
12. Show the notes for the current standard.
13. User Report screen.\*
14. Color Plot Report.
15. Data Table Report \*
16. Spectral Plot Report &
17. Tolerance Plot Report \*
18. Statistics Report \*
19. Change the report properties.

\* These features are not available with the Lite version of OnColorQC.

& These features are not available with the Colorimeter version of OnColorQC.

### **Hints and Reminders:**

1. Drag the mouse on top of an icon and a label will be displayed with a brief description of the icon.
2. Further descriptions of the toolbar options can be displayed in help. Select the index option and type in the word toolbar and display the help file regarding the toolbar.

## Report Screens:

OnColorQC offers the user six different "Report Screens" or views selectable from the toolbar. These reports offer a wide variety of display options and can be customized by selecting the property icon and defining conditions in the dialog box that is displayed. The six screen views are:



1. **User Screen:** The user-defined report screen is the default screen that appears when the program is accessed. It divides the screen into four quadrants, and each of the quadrants can be customized using the properties icon. This is the most commonly used report and in most cases, can be customized to show all the required data.



2. **Color Plot:** This screen displays a plot of the active save-set in a color space along with the colorimetric data, deltas, indices, color assessments and Pass/Fail. Either 2D or new 3D graphical plots can be selected for one or three illuminants. The user has the option to change color space equations, scale, trial markers, etc.



3. **Data Table:** This screen displays a spreadsheet-like table of the colorimetric and color difference data. Color patches, assessments, indices, and job tags can be included. With one-click, the displayed data can be exported to a spreadsheet.



4. **Spectral Plot:** This screen view displays the active datafile's standard and trial reflectance data. As with all the screen views the user can manipulate the screen by selecting the properties button on the toolbar.



5. **Tolerance plot:** This screen view displays a graphical representation of the numerical values which define a range of color variation between samples which is considered acceptable.



6. **Statistics plot:** This screen shows a trend chart of the active datafile with multiple graphs displaying colorimetric values such; delta L, delta A, and delta B and delta E. The mean, standard deviation, and variance are displayed for this population of selected trials.

#### **Hints and Reminders:**

1. All of the screen views are selectable from the toolbar or the Report menu.
2. The user can customize the active screen view by selecting the property button on the toolbar or double-clicking on the report. A right click will bring up a shortcut menu of the most commonly used options for that screen.
3. A detailed description of the customizable options available for each screen view can be found in the help index.

## **OnColor Help:**

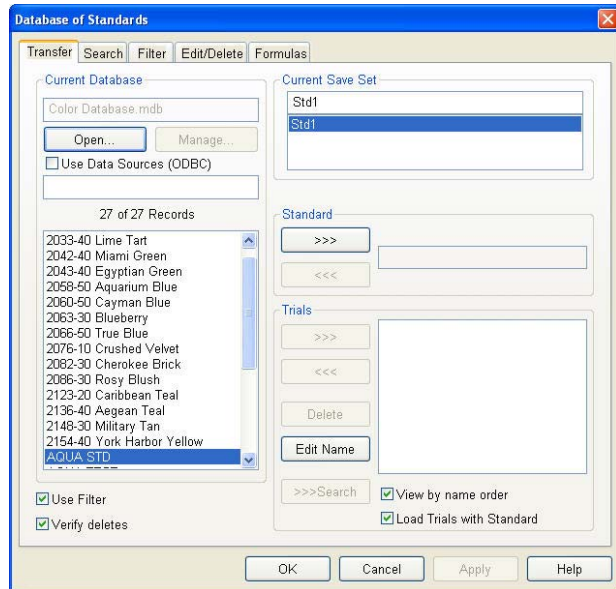
OnColor contains a online help file that is extremely extensive and covers a wide range of topics and information. The help file can also be found as a word document in the \OnColor\Documentation folder on your hard drive or on the OnColor CD. The online help can be accessed from the help drop menu. Additional documentation is also found in the \OnColor\Documentation folder. A full OnColor manual can be accessed by clicking on the shortcut to the manual that was placed on your Windows desktop at installation.

#### **Hints and Reminders:**

1. For directions on using the help select the option using help found under the help drop menu.
2. OnColor help offers detailed step by step outlines of almost every function in the OnColor program.

## Using the OnColor Database of Standards

A very powerful feature of OnColor is the Database of Standards. This option is used to store reflectance data and tolerances for standards, associated trials, and formulas. You will have the ability to: Search for closest match, Recall Standard, with or without the associated Trials, as well as to “filter” your searches or recalls for a particular “customer” or “color palette”. The Database of Standards is stored as a Microsoft Access MDB file. This file type is ODBC compatible and can be read using MS Access. This file structure is very useful for networked applications and for viewing data in real time. Alternately, an SQL database can be used. An empty database named “Color Database” is installed with OnColor V6 and is the default Database of Standards upon startup. You can begin using this database “as is”, or you can rename it. The default setup for the Database of Standards does not use the ODBC Data Sources. You can use this option if you wish by checking the box for it in the Transfer tab. If you want to connect to an existing V5 database, you will need to use the ODBC setup. OnColor is also shipped with an empty database of standards. It is installed to the default directory chosen at the time of installation.



Go to View-->Default Directories to see what this is. You can make a copy of this empty database and rename it according to your needs.

There are five tabs under the Database of Standards Options:

- Transfer
- Search
- Filter
- Edit/Delete
- Formulas (shown only with Match Gold and Silver licenses)

**Transfer Tab** is used to Change the Database, create a new one, or manage an existing one. It can be used to move records back and forth between the current open documents and the database.

**Search Tab** is used to specify the parameters for the Search for Closest Match feature in the database. Under Trial Returned, you can select the number of closest matches to be returned as Trials. The Trials are appended to the current document in order from smallest to largest DE. You can also select the Maximum Delta E for the Trials. The Closest Match will always be returned even if it exceeds this Delta E value.

**Filter Tab** is used to activate/deactivate database filtering on the Search and Recall features of the database. To activate Database Filtering, click in the box to check it or turn it on; uncheck the box to deactivate or not use any filtering options.

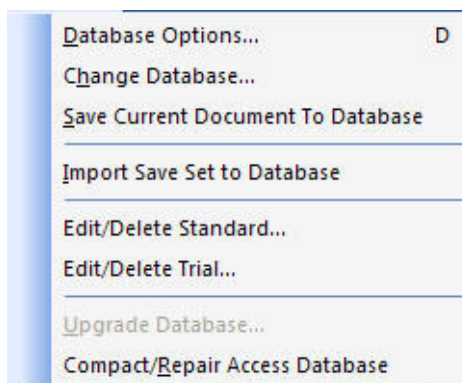
If database filtering is turned on, then only those records that match the specified criteria will be listed on a Search or Recall function. In the example shown, only samples that are for the Customer and the Palette shown will be listed. You can use one or more of the filters at a time. The Alternate Name field is a free form field; the Customer and Palette fields must be selected from the drop down list; and the Date/Time is specified in the format shown.

The Customer and Palette fields are originally created in the List Management section under the File menu where you can add new entries to the list or edit existing ones.

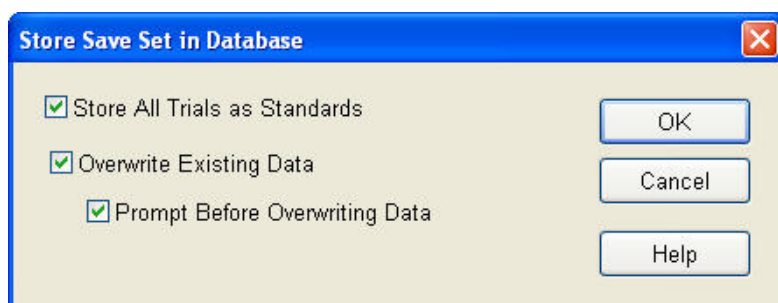
**Edit/Delete Tab** is used to edit the names of Standards and Trials or to delete them. The pane on the left side shows a listing of the names of the Standards while the pane on the right shows a listing of the Trials associated with the selected Standard. If any Batches are associated with a Standard, then the Batch names are also shown in a tree structure. Batches are only applicable to the Match Silver and Match Gold licenses.

**Formulas Tab** is used to display the name(s) of the product line(s) for any formulas associated with the selected Standard. You can also delete a formula for a specific product line from the database by clicking on the Delete button. . If the “Use Filter” option is checked, then only those Standards that meet the filter criteria are displayed. If the “Verify Deletes” option is checked, then for each delete, the user will be asked to confirm that he wants to delete this record.

**Database Menu** - The options under this menu are shown here.



- Database Options will open the Transfer Tab on the Database.
- Change Database will open the dialog to select a different database.
- Save Current Document To Database will save the Standard and any Trials to the Database either as a new record or it will replace a current Standard if a sample with the same name is found. Any changes to any trials will also be saved. This includes edits, deletions, or additions of any trials.
- Import Save Set to Database will open a dialog box where you select whether to Store All Trials as Standards; whether to Overwrite Existing Data; and whether to Prompt Before Overwriting. After clicking OK, then the user selects the save set to copy to the



database. You can browse to a different folder or network drive to locate the files to be imported. CyberChrome formats of WSV, SVS or WSL are supported. To import data

under other formats, use the File-->Open command to open another one of the supported file types. This includes importing the data from a spreadsheet-type or TXT file. Follow the Help on this procedure and then save the data into a WSV file, which can then be imported to the Database here.

- Edit/Delete Standard will take you to the Edit/Delete tab in the Database of Standards. Follow the instructions given above.
- Edit/Delete Trials will take you to the Edit/Delete tab in the Database of Standards. Follow the instructions given above.
- Upgrade Database upgrades a V5 OnColor database to a V6 Database. OnColor V6 can read and save to V5 Databases, but V5 cannot read a V6 Database. Without upgrading

the Database you cannot take advantage of the new features in V6. Before upgrading a V5 Database, we strongly recommend that you make a back-up copy of the Database (meaning the .MDB or .SQL file) before proceeding. Also note that once a V6 Database is upgraded you cannot un-do this operation and anyone using OnColor V5 will not be able to use this upgraded Database.

- Compact Repair Access Database runs a utility that compacts the database from any deletions that have been made and fixes some database errors. If you are getting any Database errors, run this utility first to see if they can be rectified with this simple procedure.

#### **To Open a Database of Standards: (without using Data Sources (ODBC))**

The first time you open a Database of Standards in a new installation of OnColor, the database called "Color Database" will be loaded. You can work in this file or open a different one. Click on Database-->Database Options or type the shortcut key "D". The Database window will open on the Transfer tab. Make sure the Use Data Sources box is unchecked.

1. Click on the <Open> button. A dialog box for Database File to Open is displayed for you to browse and find the Database that you want to open. The default directory is the one that was selected during installation of OnColor. Go to View-->Default Directories if you need to revisit what that is. Databases may be stored on any drive that your computer has access to.
2. Highlight the file (.MDB) that you want to open, and then press the <Open> button. After the database has been loaded, you will see the file you opened listed under Current Database. When you click on <OK>, the database will close. You are ready to store reflectance data or the match formulas in the current \*.mdb file.
3. The name of the current Database of Standards is shown in the Status Bar in the lower right portion of the screen (next to the name of the current Property file).

#### **Hints and Reminders:**

1. You can also use the menu command Database-->Change Database to select a database.

#### **To Open a Database of Standards: (using Data Sources (ODBC))**

The first time you open a Database of Standards in a new installation of OnColor, the database called "Color Database" will be loaded. You can work in this file or open a different one. Click on Database-->Database Options or type the shortcut key "D". The Database window will open on the Transfer tab. If you want to use Data Sources to find your database, make sure the box is checked to do so.

1. Select the <Open> button. This puts you in the Select Data Source window. Stay in the File Data Source tab. Click one time on the desired \*.dsn file. The name will appear in the DSN Name box. Select the <OK> button to load the database. This may take a few seconds.
2. After the database has been loaded, you will see the file you opened listed under Current Database. When you click on <OK>, the database will close. You are ready to store reflectance data or the match formulas in the current \*.mdb file.
3. The name of the current Database of Standards is shown in the Status Bar in the lower right portion of the screen (next to the name of the current Property file).

#### **Hints and Reminders:**

1. You can also use the menu command Database-->Change Database to select a database.



### To Create a new Database of Standards: (without using Data Sources (ODBC))

1. An empty database named "Color Database" is installed with OnColor V6 and is the default Database of Standards upon startup. You can begin using this database "as is", or you can rename it.
2. OnColor is also shipped with an empty database of standards, called appropriately "Empty Database.MDB". It is installed to the default directory chosen at the time of installation. Go to View-->Default Directories to see what this is.
3. To create a new blank database use Windows Explorer to make a copy of this empty database and rename it according to your needs. It is a good idea to keep this copy of "Empty Database.MDB" available for future needs.
4. After you have made a copy and renamed it, then use the instructions above to open it in OnColor and begin using it.
5. The first time you use this database, it will ask you what additional Tables you want to create. For QC users, you can store Tolerances; for Match users, you can store Tolerances and/or Formulas. Check the appropriate boxes and the tables will be created and ready for your use. If you do not add these Tables now, they cannot be added on at a later time.

### To Create a new Database of Standards: (using Data Sources (ODBC))

1. Select **File**, then **Database of Standard** or type the shortcut key "D". When selected it may take several seconds to load the current file. The first screen is the Transfer Tab. This lists the current database loaded, the records stored in the database, the current Save Set and the standard and trial(s) in the Save Set. To use the ODBC drivers and Data Sources, check the box for "Use Data Sources (ODBC)."
2. Select the **<Open>** button. This puts you in the Select Data Source window. Click on the **New** button.
3. The next window is Create New Data Source. The Microsoft Access driver (\*.mdb) should be highlighted, click on **<Next>**.
4. The next window is still Create New Data Source. This is where you **type in the name** of the link (\*.dsn) you want designated. Click on **<Next>**.
5. The next window tells you that you just created the filename (which is your \*.dsn file). Click on **<Finish>**.
6. The next step is to create the actual Access database (MDB file). A dialog for the ODBC Microsoft Access Setup will open. In the Database section, click on **<Create>**.
7. This command puts you in the New Database window. Browse to the directory where you want to create this new database. Under Database Name, **type in the name** of your database (\*.mdb), and click on **<OK>**. We recommend that you name the MDB file the same as the DSN or data source; that way you will always know which files go together.
8. The next dialogue box should say the Database was successfully created. Click on **<OK>**.
9. Click **<OK>** again to exit out of ODBC Microsoft Access Setup.
10. In Select Data Source window you will see the \*.dsn file in the main box. Click on the newly **created \*.dsn file**. The name will appear in the DSN Name box. Select **<OK>** again.
11. In the next window you have the option to select what additional data you want to store in the database. Click on **Tolerances** to save the pass/fail tolerance criteria for each standard; click on **Formula Data** to save formulas (colorants and amounts) for each standard. Any combination of these can be selected. The option must be selected at this time and cannot be added later. The more options selected, the larger the database will be. The Formula Data option is available only on matching packages. Click **<OK>** to continue.
12. The database will load. This may take a few seconds. After the database has been loaded, you will see the file you created listed under Current Database. This new database will contain 0 records at this point. When you **click on <OK>**, the database window will close but the database remains the active one and is noted on the Status

- Bar in OnColor.
13. You can now transfer reflectance data to the database from any of the active save-sets by clicking on the standard or trial and then clicking on the left arrows.
14. After making color matches and you wish to store the formula into the database, Select Match on the menu bar, then click on Save Formula. The current formula will be stored in the new database (\*.mdb) you just made. Note: any formula saved will always be stored in the current database in Database of Standards.

#### **To store and recall data into the Database of Standards:**

1. Go **Database-->Database Options** or use the hot key "**D**".
2. On the right side of the Transfer window are listed the standard and trials in the current save-set (WSV file). Use the left and right pointing arrows to copy records from one file to the other. The procedure works both ways.
3. You can also recall something from the Database using the menu commands **Standard→Recall** or **Trial→ Recall**.
4. Similarly, you can save a sample to the Database using the menu commands **Standard→Save** or **Trial→ Save**.

#### **To Search the Database of Standards:**

1. Open a new document and measure the target color to be searched for as a Standard.
2. Click on **Trial→ Search** or type the shortcut key **F6**. The program searches the database for the "n" closest shades that are within a certain DE as specified in the **Search Tab** of the Database of Standards. For example, the program returns the 5 closest shades that are less than 10 DE from the Standard. They are reported as Trials in order from lowest DE to highest DE. The criteria for the Search are set in the **Database of Standards→ Search Tab**. If "**Database Filtering**" is checked to **ON**, then the list of records in the database will be filtered accordingly. In order to use filtering, you must either have the Alternate Name field and/or System fields populated. The System field is generally set-up to indicate the product line, but it could also be used to enter the customer or any other criteria that is useful to search on.
3. Alternately, you can go to **Database -->Database Options** or use the hot key "**D**".
4. Click on the **Search** button. The program searches the database for the "n" closest matches to the Standard in the current save-set, same as indicated above.

#### **To Use Database Filtering:**

1. The Database can be "filtered" according to the Alternate Name, Customer, Palette or date and time. The date and time of measurement is always tagged with each reading. The Alternate Name, Customer and Palette are fields that must be input at measurement time or else edited later.
2. The List of Customers and Palettes are entered by going to **File→List Management** and then selecting the appropriate tab. You can Add, Edit, or Delete these filter names here. Same for Jog Labels and Colorant Attributes, although you can't use job labels or colorant attributes to filter the database.
3. If you have populated at least some of the records in the Database of Standards with Alternate Names, Customers, or Palettes, then you can turn on "filtering" on either the Transfer tab or the Filter tab in the Database of Standards window. You can also turn on or off filtering when you do **Standard→Recall** or **Trial→Recall**.
4. When "Filtering" is turned on, then only those records that meet the filter criteria will be listed or searched. You can use multiple filters at a time.

#### **To Recall a Standard with a Stored Formula:**

1. If you have OnColor Match Gold or Silver, then formulas can also be stored with each Standard in the Database of Standards. A formula is stored in the database by going to **Match→Save Formula** after doing a match. The current formula displayed on the screen is saved. This can come from a combinatorial match, a single match, manual



- match, or the New Formula after a batch correction.
2. To recall a Standard with a Stored Formula, first you must be certain that the proper colorant file (.CLR) is the current active file. The easy way to do this is to recall a PRP file that references this CLR file. Then go to **Standard→Recall** and choose the desired standard from the list. If a formula exists for this standard and the correct colorant file is active, then the formula is recalled along with the Standard color data. If the correct colorant file is not open on the active save-set, then the Standard color data is recalled without a formula.

**Hints and Reminders:**

1. You can use the Database Formula tab to view which standards have formulas stored with them. Highlight the Standard of interest on the left pane. In the right pane, the names of the Colorant Systems for which formulas are stored for that standard are displayed.
2. Again, the Colorant System must be active in the current property file (PRP) in order for a formula to be recalled.

**Menu Options:**

The following sections give a brief overview of all of the other Menu options available in OnColorQC. For a detailed description of how to use these features, go to the complete OnColor Manual by clicking on the Windows shortcut on your desktop to the OnColor Manual. This manual was copied to your computer during installation. The file name is:  
OnColor Manual V6x.doc.

**File menu commands:**

<b>New</b>	Opens a New *.WSV save-set file or *.CLR colorant file
<b>Open</b>	Opens an Existing *.WSV save-set file or *.CLR colorant file
<b>Close</b>	Closes the Active *.WSV save-set file
<b>Save</b>	Saves the active *.WSV data file using its current name and path
<b>Save As</b>	Saves the active *.WSV data file to a specific file name and path
<b>Workspace</b>	Provides the options to manage and create Workspaces
<b>List Management</b>	Create and edit the lists for Customers, Palettes, and Job Labels, and Colorant Attributes
<b>Security</b>	Set the security levels and manage the password protection in OnColor
<b>Spreadsheet.</b>	Export the current data to a spreadsheet format
<b>Send Mail</b>	Sends the active file, data, or screen capture using E-Mail
<b>Print</b>	Prints a report of the current data
<b>Print Preview</b>	Displays a preview of the selected report of the data on the screen
<b>Page Setup</b>	Sets the margins and font for the printout and enter the Company Name and Address for print-outs
<b>Print Setup</b>	Selects a printer and printer connection
<b>Print Label</b>	Selects a label template and prints a label on a Dymo Label printer
<b>Exit</b>	Exits OnColor
<b>Recent Files</b>	-1, -2, -3, -4 Opens the most recent WSV or CLR files listed

### Database menu commands:

<b>Database Options</b>	Opens the Database dialog box with option for Transfer, Search, Filter, Edit/Delete, and Formula management
<b>Change Database</b>	Select a different database as the active database
<b>Save Current Document to Database</b>	Saves the current open document (or save-set) to the Database; saves the Standard, tolerances, and all Trials
<b>Import Save Set to Database</b>	Select a stored WSV file to import the Standard and Trials to the database; the file must be saved first before importing it; supports WSV, SVS, and WSL formats
<b>Edit/Delete Standard</b>	Used to edit or delete standards and associated records from the database of standards
<b>Edit/Delete Trial</b>	Used to edit or delete trials from the database of standards
<b>Upgrade Database</b>	Converts an OnColor V5 Database of Standards to V6 format
<b>Compact/Repair Access Database</b>	Runs a utility program to compact and repair connections in a V6 format Access database (not SQL format)

### Standard Menu commands:

<b>Measure</b>	Measures a sample and designates it as a Standard; takes a single scan.
<b>Average</b>	Averages a number of scans to comprise one standard measurement.
<b>Keyboard</b>	Input of standard values via the keyboard.
<b>Edit</b>	Edits the standard name, % reflectance and colorimetric data.
<b>Null</b>	Enters a null standard
<b>Save</b>	Saves the current Standard to the current Database of Standards
<b>Recall</b>	Recalls a Standard from the current database.
<b>Most Popular</b>	Polls all trials to determine which standard they are closest to in a multi-standards file
<b>Utilities</b>	Options to copy, delete, find, select/deselect, and sort the standard data
<b>Download</b>	Downloads the current standard <b>from</b> OnColor <b>to</b> the portable instrument
<b>Upload</b>	Uploads target and/or trials <b>from</b> the portable instrument <b>to</b> OnColor
<b>Switch</b>	Switches the current Trial into the Standard position and vice versa.
<b>Average Trials</b>	Average all trials to create a new standard.
<b>Auto Naming</b>	Toggles auto naming of the trials on/off
<b>Position</b>	Enable/disable use of sample previewing mirror with CM-3500 before measurement.
<b>Naming Options</b>	Naming options for standard name.
<b>Multi Standards</b>	Mode allows for multiple standards to be managed in a save-set (WSL file); acts as a toggle to turn this feature on/off
<b>Multiple Standards</b>	Selects the standard to be used for display purposes
<b>Hitch Mode</b>	Turns the Hitch Mode on/off
<b>Hitch Management</b>	Manage the options to “hitch” an instrument to a specified data point
<b>Naming Options</b>	Controls the formation of the name of the Standard and Trials and display; also allows you to enter default names

### **Trial** menu commands:

<b>Measure</b>	Measure a sample and designates it as a Trial to be compared with the current Standard; takes a single scan.
<b>Average</b>	Average a number of scans to comprise one trial measurement.
<b>Keyboard</b>	Input of trial values via the keyboard.
<b>Edit</b>	Edit the trial name, % reflectance and colorimetric data.
<b>Measure from File</b>	Reads the names of the Trials from a file (used when measuring the Profiler Tiles or a large fandeck)
<b>Measure Loop</b>	Used with portable instruments to initiate a measuring loop when measuring numerous trials
<b>Save</b>	Saves the current Trial to the Database of Standards
<b>Recall</b>	Recalls a trial from the current database
<b>Search.</b>	Search for closest match to standard from database of standards.
<b>Utilities</b>	Options to copy, delete, find, select/deselect, and sort the trial data
<b>Average Last n Trials</b>	Creates a new Trial from an average of the last “n” trials
<b>Auto Naming</b>	Toggles auto naming of the trials on/off
<b>Insert Mode</b>	Inserts the next trial in this position.
<b>Position</b>	Enable/disable the use of the sample previewing mirror with the CM-3500 before measurement.
<b>Auto-Select Standard</b>	Search for closest standard within all opened save sets.
<b>Auto-Save</b>	Toggle this feature on/off to automatically save a measured trial to an existing file.
<b>SCI/SCE Must Agree</b>	Displays a warning message if the specular component for the Trial is different than the Standard
<b>Naming Options</b>	Controls the formation of the name of the Standard and Trials and display; also allows you to enter default names

### **Report** menu commands:

<b>User Defined</b>	Displays the 4 quadrant user defined screen. Choose from any combination of the following report screens.
<b>Color Plot</b>	Displays the color plot screen with colorimetric absolute values and color difference data for 1 to 3 Ill. Includes a cross-hair color plot in 2D or 3D in absolute or delta mode
<b>Data Table</b>	Displays the data table screen for all Trials in the current document; can copy all the data to the Windows clipboard in single click
<b>Spectral Plot</b>	Displays the spectral plot screen with a tabulation of the %R or %T data or K/S or Absorbance
<b>Tolerance Plots</b>	Displays the tolerance plot screen and manages the current tolerances and selects the method of Pass/Fail assessment
<b>Statistical Charts</b>	Displays the statistical charts screen in either trend chart in bars, lines, or histograms along with the Mean, Std. Dev., and Variance for the current set of Trials
<b>Print QC Label</b>	Prints a QC label to a Dymo printer from a chosen template
<b>Properties</b>	Change the properties (screen layout) and default parameters for the active report.
<b>Save Properties As</b>	Save all report properties (screen layouts) and current options for later recall.
<b>Recall Properties</b>	Recalls a PRP or property files and sets all report properties (screen layouts) according to this template
<b>Recent Files</b>	-1, -2, -3, -4, -5 Opens the most recent PRP files listed

### Options menu commands:

<b>Macro</b>	Macros are used to program a series of OnColor operations into one repetitive function
<b>Averaging</b>	Pre-select a fixed number of measurements to average or set the minimum and maximum number to average, or set a fixed time between measurements.
<b>Tolerances</b>	Select to view or edit box tolerance, elliptical tolerance, or for PASS/FAIL assessment.
<b>555 Block Sizes</b>	Select to do 555 shade sorting and set the block sizes
<b>Observer / Illuminants</b>	Select illuminants and observer.
<b>Color Space</b>	Select the color space shown on output.
<b>Indices</b>	Select which indices are displayed from a list of over 100 choices
<b>Adjusted Strength</b>	Select which method of % Strength calculation is used and other parameters for strength calculation
<b>Opacity / Reflectivity</b>	Performs opacity/reflectivity measurement measuring a sample over a white and black background to get % Opacity (contrast ratio) and reflectivity
<b>Haze / diffuse Transmittance</b>	Performs haze calibration and haze measurement.
<b>Measure Background</b>	Changes the white and black background when using Haze or Opacity options.
<b>Gloss Correction</b>	Applies a gloss correction to each measurement that is taken
<b>Calibration</b>	Calibrates the instrument
<b>Instrument Settings</b>	Selects the SCI/SCE; aperture and mask; UV energy settings, etc.
<b>Calibration Interval</b>	Select to enter in the time interval for instrument calibration.
<b>Remote Measurement</b>	Waits for the Measure Button to be triggered on a portable instrument rather than via the PC
<b>Communications</b>	Change or test instrument communication
<b>Profile Settings</b>	Activates instrument profiling and displays the settings and CCF file
<b>Instrument Performance</b>	Checks the performance of your instrument using a set of ceramic tiles and manages the Instrument Performance database

### View Menu options:

<b>Toolbar</b>	Show or hide the toolbar. Choose from a menu of various toolbars to activate for display
<b>Status Bar</b>	Show or hide the status bar in the lower right section of the screen.
<b>Application Look</b>	Choose which Office display style is used for the overall OnColor application
<b>Keyboard Shortcuts</b>	Create shortcut keys that accesses menu commands in a single keystroke
<b>Default Directories</b>	Displays the default directory for the file type selected. Can be changed to direct OnColor to save and look for files in another path and folder.
<b>Logo File</b>	Directs OnColor where to look for the location and name of the logo file used on the print-outs
<b>Visual Style Toolbar</b>	Gives a choice of the visual styles available for the displays
<b>Select Font</b>	Select the display font.
<b>Select Colors</b>	Select display colors.

<b>Calibrate Color Patches</b>	Select to calibrate the color patches on screen.
<b>Previous Standard</b>	Scroll to display values for previous Standard in a multi-standards file
<b>Next Standard</b>	Scroll to display the data for the Next Standard in a multi-standards file
<b>Previous Trial</b>	Scroll to display values for previous trial.
<b>Next Trial</b>	Scroll forward to display values for next trial.
<b>Previous Meas. Status</b>	Displays the data for the previous status on a multi-status file
<b>Next Meas. Status</b>	Displays the data for the next status on a multi-status file
<b>Measurement Status Sequence</b>	Selects which measurement statuses are displayed in a multi-status file
<b>Display Notes</b>	Displays the notes associated with the Standard and Trials.
<b>Rotation Default</b>	Applies the Rotation Defaults that you have saved for the three axes.
<b>Save Rotation Defaults</b>	Saves the current settings for the Rotation Defaults for all three axes. Set them to your favorite view and then save them as the default.
<b>Zoom</b>	Uses the zoom feature to zoom in, zoom out, or return to the default position on graphs

### Window menu commands:

<b>New Window</b>	Creates a new window that views the same document. Use this command to display more than one report screen at a time.
<b>Cascade</b>	Arranges the open documents in an overlapped fashion.
<b>Tile</b>	Arranges the open documents in non-overlapped tiles.
<b>Arrange Icons</b>	Arranges icons of closed windows.
<b>Window 1, 2,</b>	Selects the window to become active in the foreground.

### Help menu commands:

<b>Index</b>	Offers you an index to topics on which you can get help.
<b>Contents</b>	Provides a Table of Contents and easy acces to Help
<b>Search</b>	Allows you to search for a topic in the online Help
<b>About</b>	Displays the version number of this application.
<b>CyberChrome On the Web</b>	Provides a link to the CyberChrome web site for sales, support, and other services options



## **OnColor Match – Quick Start Instructions**

*A complete OnColor User's manual is included on your installation CD. It was copied to your hard drive during installation of the software. Look for the MS Word document called "OnColor Manual v6x.doc".*

*The following section is a supplement to the OnColor QC Quick Start Guide and covers the additional features of Color-Matching and Batch Correction. Please read the QC Guide before beginning here.*

### **OnColor Match Overview**

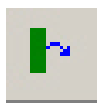
When launching OnColor Match Gold, you will see three additional icons on your toolbar for the formulation options; for Match Silver you will see two. The Menu bar and Tool bar will look similar to this:



The additional icons are for the following Report Screens:



1. **Colorant Characterization Report** (Match Gold only) – This feature is used to load or build your colorant file that contains the calibration data on your colorants. You can also edit the file, add colorants to the file, edit information on the colorants, such as cost, strength, density, etc or add additional colorants to the file. The file can either be stored in the Database of Standards or stored as a CLR file on a computer drive. The Match Silver level does not contain this feature. A Silver user must get a CLR file or have access to one that was created by a Gold user level.



2. **Match Report** – This report is used to display the results of a match prediction or a recall of a stored formula. The properties for this report store the numerous parameters used for the match and the display of the results. Many options are available depending on the application. Consult the online Help for a detailed explanation of these options.



3. **Batch Correction Report** – This report is used to display the results of a batch correction telling the operator what to add to a batch in process to bring it on-color. The properties for this report store the numerous parameters used in the process. As with matching, many options are available, depending on the application. Consult the online Help for a detailed explanation of these options.

## Additional Menu Options with Match Levels

### Additional Options under the Database Menu

<b>Open Colorant System</b>	Opens a colorant system in the Colorant Analysis Report window; allows you to manage or append to the file; this is the equivalent of opening a .CLR file from V5
<b>Edit/Delete Colorant System</b>	Used to edit or delete a colorant system from the database of standards or to edit and manage a colorant system

### Match Menu

<b>Automatic</b>	Takes you to the Automatic Tab of the Match Properties where you can select colorants, the number of colorants/match, batch size, loading and other parameters and then “RUN” the match prediction
<b>Manual</b>	Takes you to the Manual Tab where you can select colorants and enter amounts to synthesize a color match or modify the amounts in an existing match
<b>Select</b>	Takes you to the Select Tab where you select the Colorant System or CLR file to be used and select the colorants and base for the match
<b>Numeric</b>	Takes you to the Numeric Tab where you can choose the numeric parameters such as math model, batch in weight or volume, batch size, colorant loading, and other parameters
<b>OPL</b>	Takes you to the OPL Tab where you enter the parameters for the Optimized Pigment Loading to be used in match prediction and enable the option
<b>Formula Entry</b>	Takes you to the Formula Entry Tab where you can enter a color formula to be stored in the Database of Standards
<b>Properties</b>	Takes you to the Match Properties where you can select any of the following tabs: Automatic, Manual, Select, Numeric, OPL, or Formula Entry. A brief description of each is given above.
<b>Run Match</b>	After setting the parameters for the Match, this command initiates the match prediction.
<b>Independent Run</b>	Sets up the parameters for a queue of color matches; for example, to match a color card or fandeck automatically with a given colorant system
<b>Sort by Cost</b>	Sorts the results of a combinatorial match by cost
<b>Sort by DE</b>	Sorts the results of a combinatorial match by weighted DE
<b>Go to Best Match</b>	Displays the Best Match from a combinatorial match
<b>Save All to Database</b>	Saves all of the matches and formulas to the Database as trials associated with the Standard
<b>Save Formula</b>	Saves the current formula with the Standard to the Database



<b>Recall Formula</b>	Recalls the stored formula associated with this Standard from the Database
<b>Dispense</b>	Sends the output of the formula to a dispenser interface

### Correct Menu

<b>Input Batch Amounts</b>	Selects the colorants and inputs the amounts in the batch for a correction
<b>Use Predicted Batch Amounts</b>	Uses the colorants and amounts predicted from a match to the Standard as the input for what's in the batch; use this only when you have made up this first shot match
<b>Unknown Batch Amounts</b>	Use this option when you do not accurately know either the colorants or the exact amounts in the batch
<b>Waste Workoff</b>	Use this option to correct a batch of unknown composition to a different shade
<b>Input Add Amounts</b>	Use this option to enter the Add Amounts that you know you want to use to correct the batch
<b>Input Offset for Correction</b>	Corrects a batch to an offset from the standard; use this option to input the offset in terms of DL, Da, and Db
<b>Base Strength Correction</b>	Calculates the tinting strength of a white base and computes how much of an add of either clear or white is needed to bring it on standard
<b>Manual Add</b>	Allows the operator to manipulate the add and make changes to the OnColor automatic correction
<b>Reduce Add</b>	Minimizes the amount of the add by allowing a DE larger than 0.0
<b>Change Correction Factors</b>	Allows the operator to change the correction factors used in the computation of the Add
<b>Properties</b>	Brings up the Batch Correction properties dialog to enter the parameters for the correction; choose from the Automatic, Manual, Select, Numeric, Base Strength, or Offset tabs to change the parameters
<b>Run Batch Correction</b>	Performs the batch correction of the current trial to match the standard
<b>Save Formula as Batch after Add</b>	Saves the current formula with the add and the current batch size to the standard in the Database of Standards
<b>Save All to Database</b>	Saves all of the trials in the current document and their current formulas and associates them with the current Standard in the Database of Standards

### Report Menu – additional options with matching and correction

<b>Print Formula Label</b>	Prints a Formula Label of a match prediction to a Dymo printer from a chosen template
<b>Print Correction Label</b>	Prints a Correction Label of a batch add to a Dymo printer from a chosen template





**TIP:** Right click in the Match quadrant to display a shortcut menu where you can: Sort the matches by cost; Sort them by DE; Save the Formula to the Database of Standards; or change the Match Report Properties.

Select the match that best meets your criteria of metamerism, cost, and colorant selection. Save the formula to the Database of Standards (Match → Save Formula or right click in the Match quadrant) for easy recall at a later time in case you need to do a color correction to this match. A typical user screen showing the results of a match prediction is shown above.



## Batch Correction

OnColor contains powerful color correction routines that help you correct the color of a laboratory hit or production batch. Just as with the Matching options, we recommend that you set up a Report Property file specifically for doing batch correction. This PRP file would pre-select the colorant system or file, batch type, and numerical match parameters for the correction, allowing you to recall all of these setting with a single mouse click. Go to the Batch Correction Report or configure the User screen to have the Batch Correction Report in one of the quadrants. Samples of some Correction PRP files can be found in the Demo Files folder. You can start with one of these based on your application and then modify it with your colorant file and parameters.

## 4 Quick Steps to Do a Batch Correction

1. Recall the Batch Correction Report Property file (PRP) that you created.
2. Recall the Standard from the Database of Standards (Standard → Recall, then select it from the list). This will also recall the colorants and the formula if you stored it. If you did not store the standard, measure it now by typing “S”.
3. Measure the batch to be corrected as a Trial by typing “T” on the keyboard.
4. If you recalled the formula along with the Standard from the database, then type “B” to perform the batch correction. If you did not store the first hit in the database, then go to Correct → Input Batch Amounts and select the colorants in the batch and enter the amounts for each colorant. Then click on <<Run>.



The “Add” to be made to the batch is shown in the Batch Correction Report along with the starting formula and the final formula after the add is made. Depending on the parameters chosen, correction factors and the % change to each colorant are displayed. Changes to the output to this screen are made on the Style tab of the Batch Correction Report dialog box. You can easily change these properties by double-

clicking in the Batch Correction quadrant and going to the Style tab and then select the output that you want to see. Don't forget to save this Report Property file, if you want to make these changes permanent.

The "New Formula" (the way to make the corrected color from scratch or reformulation of this color) is displayed in the Match Report. A typical User Screen showing the Batch Correction Report and the New Formula is shown above.

## Other Batch Correction Options

Run Batch Correction
Manual Add...
Reduce Add...
Change Correction Factors...
Save All To Database
Create New Batch...
Save Formula as Batch after Add...
Print Correction Label
Properties...

**TIP:** Right click in the Batch Correction quadrant to get this short-cut menu of options for manipulating the add and calculating alternative corrections. The Optimize Add feature from V5 of OnColor is now combined with the Manual Add feature for streamlined operation.

Under the Batch Correction Menu you will find additional post-processing options to:

1. Save the Formula as Batch After Add – This will store the Standard color along with the current batch formula after the add to the Database of Standards. If you need to do another correction, recalling this information will load the correct colorants and current amounts in the batch into the correction routine.
2. Save All to Database – This option saves the Standard, all the Trials and their formulas with the adds to the Database. The Trials and formulas are associated with this standard in the Database.
3. Create New Batch – This option creates a new Batch associated with this Standard. A Batch contains all of the "hits" or formulas used to make one batch of this color. One Standard can have many Batches, and one Batch can have many hits or Trials. Batches are used to track the adds or hits made to a particular batch through the color-matching process.
4. Manual Add – allows the operator to zero out the automatic computer adds and then enter his idea on the amounts to be added to correct the batch. The color difference data is displayed for the new proposed correction. The <Optimize> button located on the right side of each colorant amount can be used to "optimize" the amount of this colorant in the add. Any combination of Manual Add and Optimize Add can be attempted. One or more colorants can be added at the same time.
  - a. If you want to do a Manual Add, click on Correct→ Manual Add or use the right click in the correction quadrant to access the shortcut menu.
  - b. Use the Zero Add button to set all of the add amounts to 0.0.
  - c. Enter the amounts that you want to use and click on APPLY to see the change in the DE. Click OK when you are satisfied with your add.
  - d. Optimize Add – provides an option to see if the batch can be corrected to an acceptable DE by adding the "optimal" amount of one colorant. To Optimize the add for any colorant, click on the <Optimize> button for the appropriate colorant. You can optimize more than one colorant in succession.
5. Reduce Add – asks the correction routine to find a minimum add to get to an offset DE. The operator selects a DE greater than zero and the software will attempt to add the

- minimum amount of colorant to get to this DE. The automatic correction routine always attempts to adjust the batch to zero DE.
6. Change Correction Factors – allows the operator to change the correction factors that are applied to the add. This alternate correction factors can come from known strength information or from other successful adds.
  7. Print Correction Label sends the correction output to the Dymo LabelWriter. You must have a template setup prior to using this option. Read more on How To Print Labels in the OnColor Help.
  8. How to Add a Colorant to the Batch for Manual Add: Follow these steps to add a fourth colorant to the batch for the purpose of making a manual add.
    1. Do a Batch Correction with 3 colorants
    2. Get your answer displayed on the screen, then right click in the Correct quadrant to bring up the Manual tab.
    3. Change the # of colorants to 4 and click Apply.
    4. Select the 4th colorant using the drop down list. This will be in the next to last slot. Remember that the White must be in the last slot.
    5. Your add amounts in the boxes should equal the add amounts that are on the screen.
    6. If you want to zero out the existing add, do it now.
    7. Then, enter the desired add amount of the 4th colorant and hit Apply to see the effect on the DE.

## Loading a Colorant Database

Detailed steps for characterizing a colorant database are given according to application type in the full OnColor manual. Recommendations for the proper samples to prepare can also be found here. The scope of this topic is too lengthy for this Quick Start Guide. Please consult the full manual for these instructions or contact your OnColor applications expert to help you.

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**CyberChrome Inc.**

3642 Main Street, Stone Ridge, NY 12484 Phone 845.687.2671 Fax: 845.687.2672

[www.cyberchromeusa.com](http://www.cyberchromeusa.com)

Email: [info@cyberchromeusa.com](mailto:info@cyberchromeusa.com)