Measure.

Optimize.

# ColorAnt 3

Quick Start Guide

COLOR Logic

QuickStart Guide for ColorAnt 3



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# INSTALLING COLORANT

## Getting Started with ColorAnt 3.0

Installation, requesting demo licenses, loading licenses and permanent licenses

# 01 INSTALL

## Installing ColorAnt 3

### System requirements

**Mac OSX**
10.5 or later - (Intel only)
**Windows**
Windows XP, Vista, Windows 7, Windows 8

Installers for the respective platform installs the program by default in either the ***Applications*** folder (Macintosh) or the ***Programs*** folder (Windows). Begin installation by double-clicking on the ColorAnt installation package.

After accepting the Software License Agreement, select the destination volume and choose between a ***Standard Installation*** or ***custom installation***. ***Standard Installation*** installs all components, ***custom installation*** includes the UPPCT tool as described below.

**UPPCT** – ColorAnt contains the option of directly measuring test charts for profile creation, rather than measuring and saving them exclusively via external measuring software and then importing them into ColorAnt.

### Computer vs USB dongle license

**Computer-based** ColorAnt licenses always refers to a the specific computer on which ColorAnt was installed and can be requested for temporary test purposes. Computer licenses are also advantageous if the computer has no USB ports or no space for a USB dongle, i.e. a rack server.

**USB dongle** licenses are serialized to the ColorAnt USB dongle. The ColorAnt USB dongle is shipped with the permanent license of ColorAnt and permits use of ColorAnt on different computers. To be able to assign the license to the USB dongle, the dongle must be connected before starting ColorAnt.

### Demo license request

ColorAnt allows users to automatically request a 14 day demo license to evaluate ColorAnt.

**To request a demo license follow the steps below:**

**1.** Click the registration button located on the lower left-hand corner of the Main Navigation Panel.

**2.** Click on the ***Demo license request*** tab.

**3.** Enter all required information.

**4.** When your location is chosen, ColorAnt will show the available dealers for your region. Select a dealer and click ***send direct request.*** A demo license will be automatically sent to the email address supplied in the contact form.

**5.** Save the license file contained in the email (indicated by the ending *.lic) to your system.

**6.** Under ***License details*** in the **Registration** window and select the .lic file.

After installing the demo license file, the expiration date of the demo license is shown below the ***License details*** (Fig 1.1).

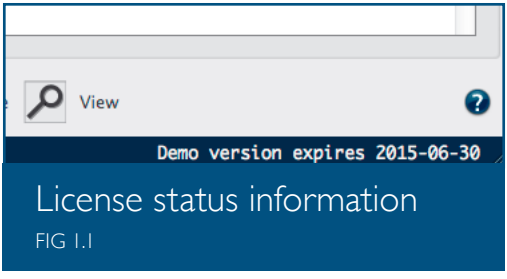


FIG 1.1

## Restrictions with Demo licenses and ColorAnt

ColorAnt demo license gives users a 14 day evaluation period to try **all** the functions of ColorAnt within the application. The demo license permits saving and exporting of data.

## Purchasing ColorAnt

ColorAnt is available in 2 packages, ***M*** or ***L***. Click on ***Buy ColorLogic products*** under ***License details*** or ***Demo license request*** in the **Registration** window**.**

A list of ColorLogic resellers will open in your browser, then locate the appropriate dealer for your country or region.

## Installing a permanent license

A permanent license provided by the individual dealer will be supplied after purchasing ColorAnt. The permanent license is available in the form of a computer-based license or a dongle license (see previous section).

After purchasing the software, a **permanent license file** (.lic) will be sent via email license. Load the license file under **License details** in the ***Registration*** window.

After installing the permanent license file, the licensed modules are displayed under the ***License details***.

# › ColorAnt 3 Packages and Add-Ons

ColorAnt 3 packages include more standard features.

| ColorAnt 3 PACKAGES | |
|---|---|
| **COLORANT M** | **COLORANT L** |
| **STANDARD FEATURES** | **All Features of ColorAnt M** |
| **Custom Chart Generation** Colorspaces: Gray, RGB and CMYK | **Edit Primaries Multicolor** CMYK and Multicolor |
| **Edit Primaries** Edit Primaries for CMYK | **Multicolor Custom Chart Generation** |
| **Enhanced Analytical Tools** | |
| **CIE Conversion** Edit the Standard Observer | |

## ColorAnt Documentation

ColorLogic's ColorAnt offers some of the most intelligent and advanced measurement data tools in the industry today. Integrated within ColorAnt are help buttons represented with the ***?*** icon, with detailed and current information.

## Automatic Updates

ColorAnt includes an automatic update function that can be enabled or disabled by going to ***Help>Check for Update.***

# MAIN PANEL

**ColorAnt's Main Navigation Panel**

Access all of ColorAnt 3 functions from one centralized location.

# 02 MAIN PANEL

## The ColorAnt 3 Interface

ColorAnt 3's main panel interface allows quick access to all tools from one easy-to-use location. Icons display the purpose of each function on the panel.

### Automatic

Correct measurement data automatically

### Custom Chart

Create custom charts for measurement

### Export Chart

Export custom chart for printing

### Measure

Measure printed charts with the UPPCT tool

### Report

Generate detailed reports on measurement data

### Redundancies

Correct redundant patches by averaging data

### Correction

Corrects and detects faulty measurements and inconsistent data

### Smoothing

Smooth and correct uneven curves

### White Correction

Apply manual correction to the most white area

### Registration

Access the Registration and license dialog

### Preferences

***Preferences -*** Report customization, default units, Display Density, Tone Value Calculation

### Optical Brightener

Remove optical brightener from measurement data

### Tone Value

Correct measurements as if they were printed to a specific reference

### Rescale

Recalculate data to a different color chart

### Edit Primaries

Add, remove, and exchange primaries or the paper/substrate into an existing measured test chart

### Average

Average several data sets into one data set

### Link

Combine multiple charts into one measurement file


### ICC Transformation

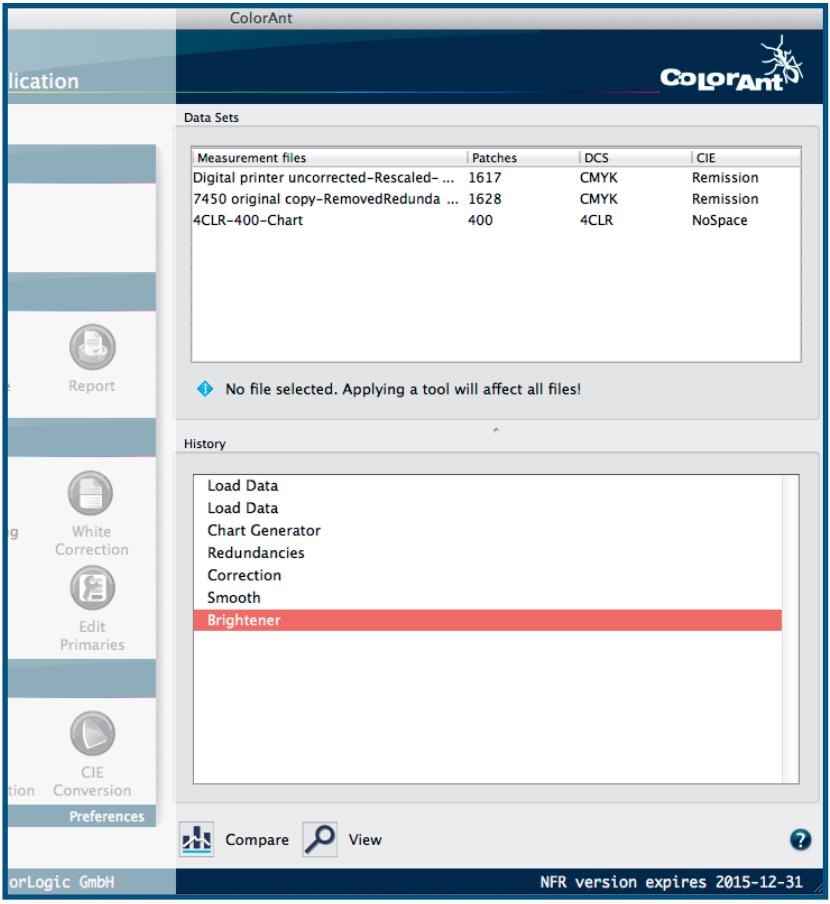
Use ICC device and DeviceLink profiles to test impact on data

### CIE Conversion

Change the standard observer illumination from standard D50

### Online Help

Online help is available through clicking any of the ***?*** located on any of the application windows.




## Data Sets and History

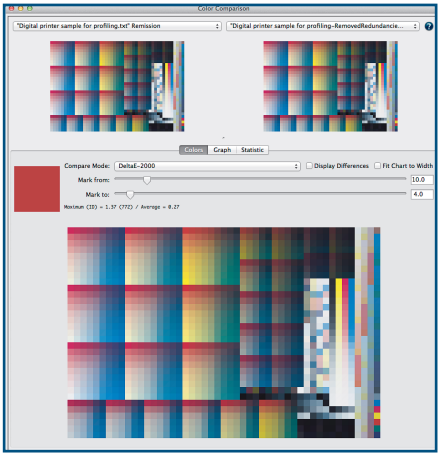
The ***Data Sets*** section of the main window will display pertinent information about the measurement data including: number of color patches, color model (Lab, CMYK, RGB, Multicolor), measurement value type (colorimetric = Lab - spectral = Remission)

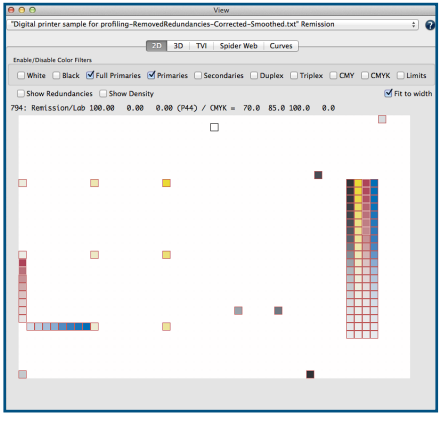
## History

The tools applied to the measurement data show in the lower right hand side ***History*** window. Clicking on an action item in the ***History*** window (either above or below the current status) gives the user control over individual corrective tasks.

## Viewing and Comparing Options

Advanced viewing options for ColorAnt 3 include tools located at the bottom of the main window which can be enabled for both viewing measurement data ***(View)*** and comparing pre and post comparison of measurement data ***(Compare)***.



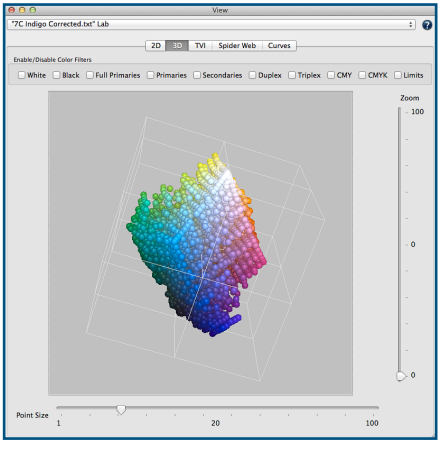




## 2D highlight with the Color Filter

The Color Filter highlights selected colors in 2D and 3D views. View by full primaries, limits, primaries, secondaries, paper white or black. Duplex and Triplex options are also available.

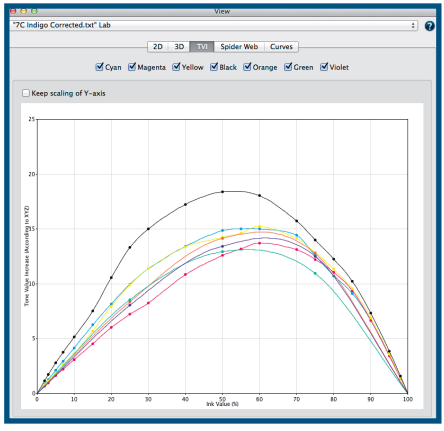
## 3D viewing options

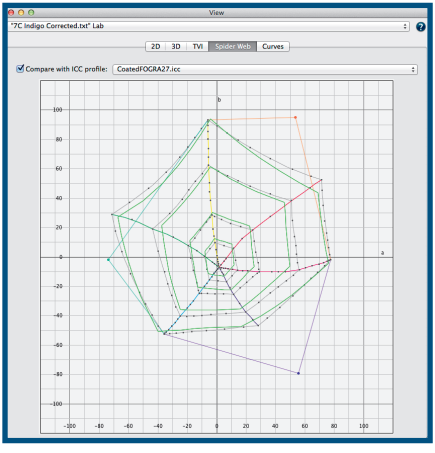
The Color Filter highlights selected colors in ***3D*** views. Zoom and rotate the model by using the sliders. The same filter options are available in the 2D view.



## TVI View options

Analyze tone value variation curves ***(TVI)***. The tone value curve works in conjunction with the curve view or any other correction which will effect the TVI.



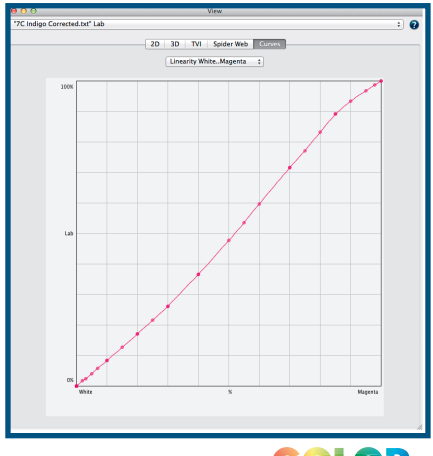




## Spiderweb

The top view of the color space in a a*-b* diagram. The measured or optimized color patches are arranged in a spider web configuration. Verify changes in the ***View*** dialog by moving forward or backward in the ***History*** list.

## Curves

View the linearity curves from white to all 100% primary colors, (including multicolor data) Visualizes data and assists with analyzing non-smooth gradation curves.



# USING COLORANT

## Automatic Correction

Correct and optimize measurement data with one click

## View

View measurement data with 2d, 3d, spider web and curves

## Compare

Compare measurement data before and after correction

# 03 USING COLORANT

## Working with ColorAnt

ColorAnt 3's main window is divided into 3 sections. All tools are located and grouped by function on the left hand side, measurement data is shown in the ***Data Set*** section on the right hand side upper window of the application window. Measurement data can be loaded or saved via the ***File*** menu or by dragging & dropping data to the ***Data Set*** window. Tools applied to the measurement data show are shown in the lower right hand side ***History*** window. Clicking on an action item in the ***History*** window (either above or below the current status) gives the user control over individual corrective tasks.

> *Using Auto is the quickest method to get instant high quality results.*

## Automatically correcting and smoothing measurement files

Load the measurement data file as describe previously. Click on the ***Auto*** button and on the ***OK*** button. Each tool that is applied is displayed in the ***History*** section. ColorLogic recommends completing this process running a ***Report*** for detailed results and further recommendations for your measurement data.

## Recommended manual working method

### Opening or Importing data

Measurement data can be loaded or imported through a variety of ways in ColorAnt. Simply open the data file ***(File>Open)*** or Drag and Drop to the ***Data Sets*** window. Predefined data sets and recently opened files are also available via the ***File*** menu.

### Acquiring data through measuring

Measurement data acquired with the ***UPPCT*** tool (reference page) is transmitted to ColorAnt. Measurement data files created by the UPPCT Measure tool are stored in the Users/Documents/ColorAnt/MeasurementData folder.

The ***Data Sets*** section of the main window will display pertinent information about the measurement data including: number of color patches, color model (Lab, CMYK,

RGB, Multicolor), measurement value type (colorimetric = Lab - spectral = Remission).

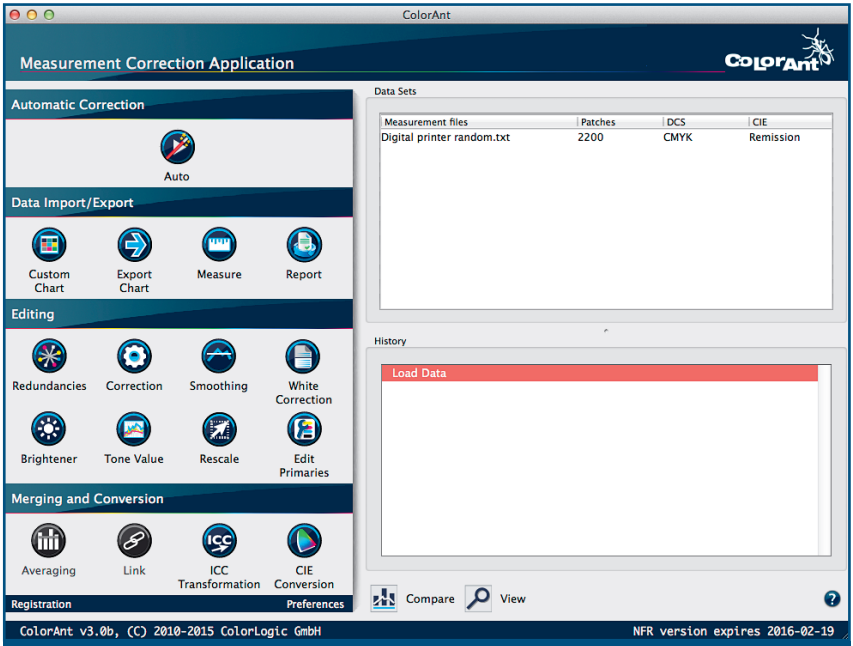
Tools located on the left will be highlighted when applicable to the measurement data, tools not accessible are grayed out. Access the tools quickly by first highlighting the data (or multiple files e.g. linking or merging several data sets together) and right clicking. When multiple data sets are present and no set is selected, corrections are applied to all measurement files.

To add reference files for other profiling test charts and color wedges to be able to access using the ***File/Open*** predefined dialog or via the ***Rescale*** tool - add the CGATS 1.7 compatible TXT file to Users/Documents/ColorAnt/Wedges folder.

## Viewing and Comparing Data

Advanced viewing options for ColorAnt 3 include tools located at the bottom of the main window can be enabled for both viewing measurement data ***(View)*** and comparing the original and post comparison of measurement data ***(Compare).***

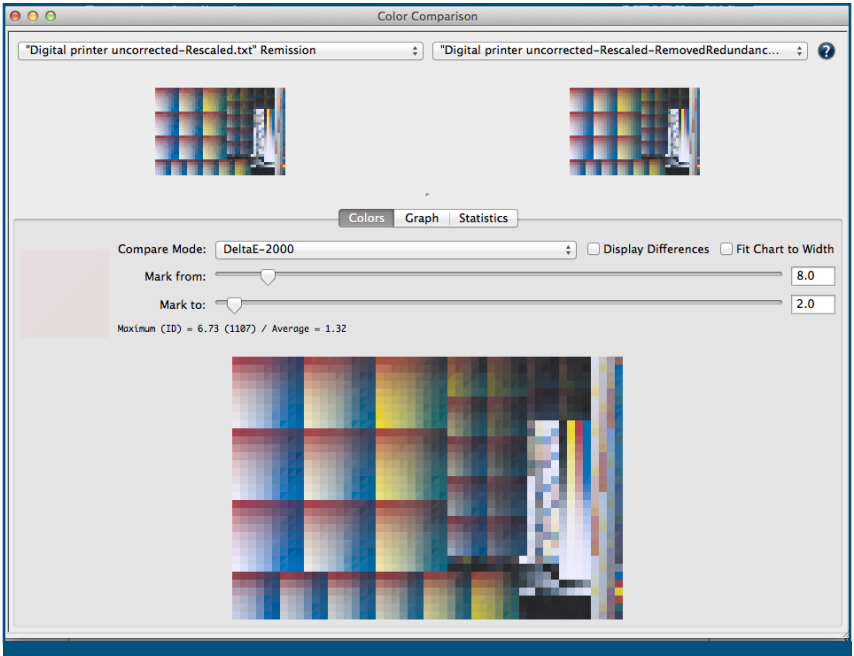
The ***View*** window includes options for ***2D***, ***3D, Spider Web*** and ***TVI*** curve options to facilitate comprehensive measurement data analysis.




Main window with Data Sets section

FIG 3.1

***Color Comparison*** allows the user to view measurement data before and after optimization. The comparison window also allows the user to view the actions taken to achieve the optimized data (eg File Name ***Correction***, File Name ***Smoothing***). The ***Mark from*** and ***Mark to*** slider displays various levels of DeltaE deviations.




Compare data before and after correction

FIG 6.1

## Saving or exporting measurement data

Once a tool or tools have been used to correct or optimize data, the name of the data will be appended with the tool(s) that have been applied.

Save the optimized measurement data by going to ***File*** and choose ***Save as***. Additional export options allowing conversion of spectral data to Lab or Density only. Other save as options include CGATS compatible TXT file, Named Color ICC profile, CxF3 compatible CXF file format, Photoshop ACO color table or as GMG CSC file.

## Reporting

ColorLogic recommends using the ***Report*** tool both on the initial data import and after the measurement data has been corrected/optimized.

# DATA IMPORT & EXPORT

## Create Custom Chart

Generate custom patches
for test charts

## Measure

Measure test charts with UPPCT

## Exporting Charts

Create custom size charts for various
measurement instruments

## Report

Create detailed reports from
measurement data

# 04 DATA IMPORT & EXPORT

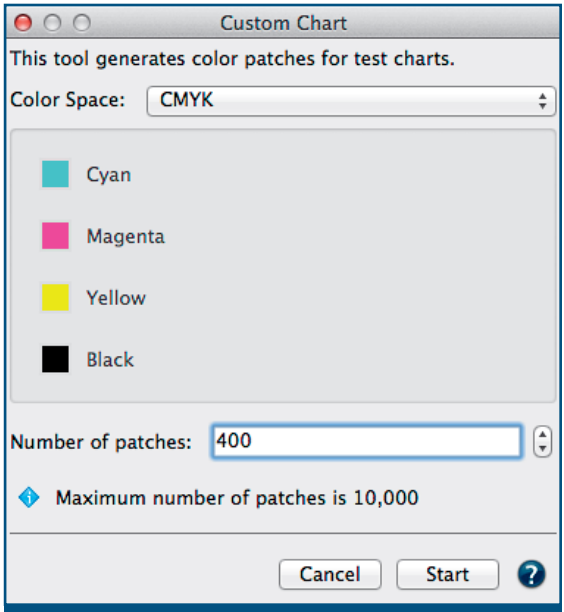
## Custom Chart

The ***Custom Chart*** tool is designed for creating the reference files for test chart generation. To define a custom test chart for profiling, a reference file containing the device data for the color space is required. **Important:** Creating multicolor charts requires a ***ColorAnt L*** license.

Depending on the selection of color space, the ***Custom Chart*** dialog provides several options:

**Gray, RGB and CMYK:** Define the ***Number of Patches*** and click OK. Select the desired ***Color Space*** from the chooser.

**CMYK:** Choose the linearisation from another measurement data set or from another print run as a starting point. To use the linearisation feature, load the appropriate measurement file in ColorAnt before opening the ***Custom Chart*** tool and select the file in the Color Space chooser.




Custom Chart Dialog
FIG 4.1

**Multicolor Charts**

**Several options are available:**

Select the desired Color Space, for example to create a 6 color profiling chart, ColorAnt will display a predefined color order, in this case: CMYK+Pantone Red and Green. The ***Eyedropper*** function allows reordering the inks. To exchange the 5 channel which is Red with Green, similar to fig 4.1 click on the Red ***Eyedropper Icon*** and from

the Colors section select Green by clicking on it.

### Changing or defining the channel names

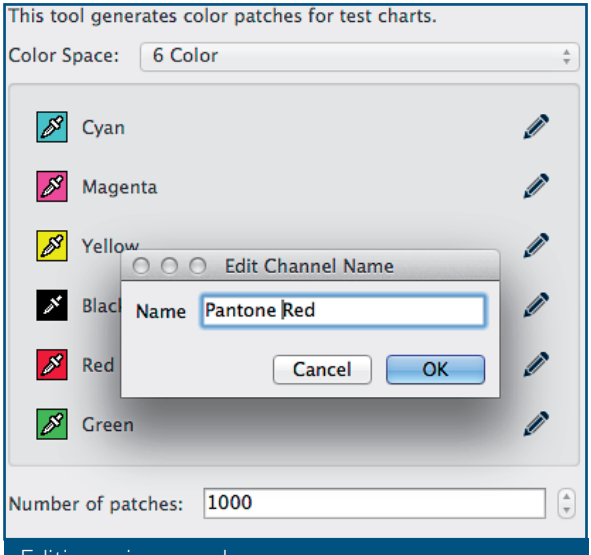
To change the channel names, click the ***Pencil*** icon, for example, click the green channel and type in the new name as shown in fig 4.1.

Define the channel name of each channel, (including or excluding CMYK) enter the name in the text field or click on the ***eye-dropper*** icon and select a color from the pop up dialog that matches the inks the closest.

Select a linearisation from another selected measurement file from the Color Space chooser. The ***Custom Chart*** tool will use measurement data to define names of the channels and will linearize the primaries. With this option, channel names are not editable.

**Note:** This option is useful with difficult print processes that are challenging to profile without linearisation or having very high dot gain. ColorAnt uses a very smooth linearisation to avoid inconsistencies in the curves.

Once the color space, channel names and the ***Number of Patches*** are defined, click ***OK*** and calculate the reference file. The reference file will appear in the ***Data Sets*** section. Save the file if necessary for other chart generation tools. To create a test chart within ColorAnt, select the reference file and click ***Export Chart.***




Editing primary color names
FIG 4.2

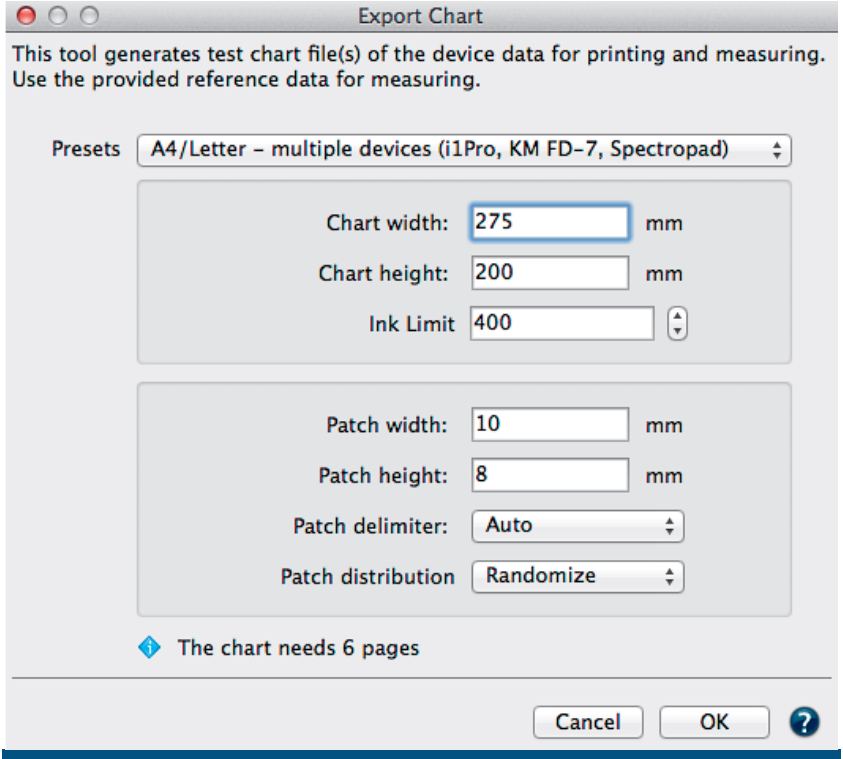
## Export Chart

***Export Chart*** allows creation of test charts as TIFF or PSD files to be printed.

Define specific values required for specific measuring instrument, or start with a ***preset***. Specify patch sizes (Patch width and Patch height) that can be defined either in millimeters or inches (***Unit*** chooser in the ***Preferences pane)*** patch delimiter and patch distribution can all be cus-

tomized. Consult the documentation for your specific device. The Custom Chart tool fills the full chart width with patches minus margins for the numbering. Instruments that do not have a width limitation (no ruler required) can benefit from this feature.

limit is too high for the press, or the user would like to define another ink limit, the user can enter the desired Ink Limit. The resulting chart will have ink limit integrated. Use the exported reference file for measuring and profiling.




Export Chart
FIG 4.3

The ***Ink Limit*** option allows the user to take into account special printing processes that can't handle 400% ink on paper/substrate. Typically each of ColorLogic's CMYK and multicolor test charts have patches with a maximum of 400% ink. If a 400% ink

## Quick Start Procedure

**Step one:** Select the reference file that was created with the Custom Chart tool or a reference file from another source.

**Step two:** Choose either one of the presets, or define a custom size and patch width.

**Step three:** Define the number of patches to be produced.

## Measure test charts with UPPCT

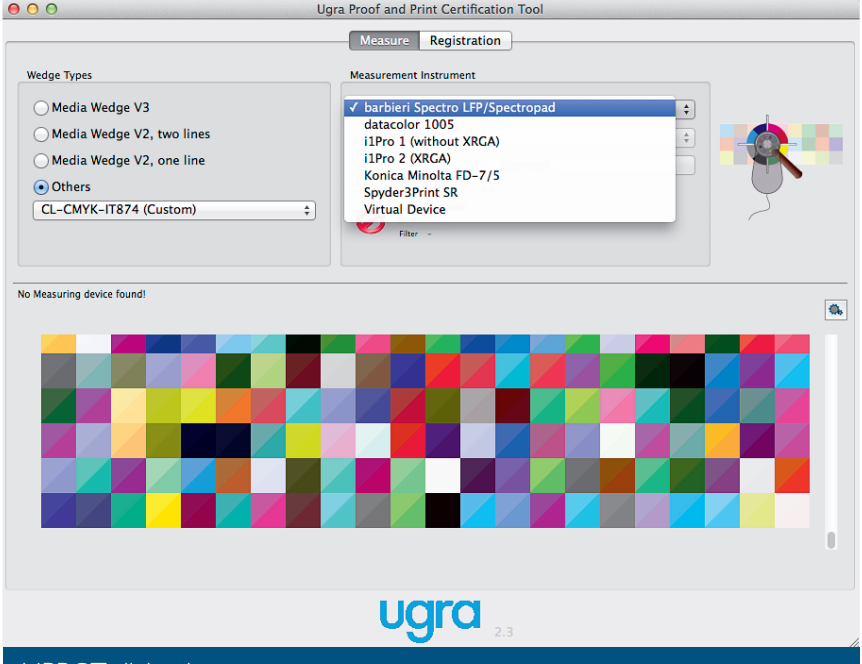
The ColorAnt ***Measure*** tool has the option of directly measuring test charts for profile creation via the UPPCT software tool (Fig. 4.4) from Swiss Center of Competence for Media and Printing Technology - Ugra, rather than measuring and saving data via an external measuring software and then importing the data into ColorAnt.

**Productivity Feature:**

When measurement data is loaded into the ***Data Sets*** window and Measure is selected, the previous chart and measurement device by default are automatically loaded into the ***UPPCT*** tool.

## Quick Start Procedure

**To access the UPPCT tool:**




UPPCT dialog box
FIG 4.4

**Step one:** From the ColorAnt Data Import/Export module, click ***Measure.*** ColorAnt will confirm launching ***UPPCT,*** click ***OK*** and launch ***UPPCT***.

**Step two:** Choose the measuring chart from the ***Wedge Types***

dialog. For custom charts including ColorLogic's test charts, click ***Others*** and the select the desired chart from the pull down menu.

**3. Select the measurement device** under ***Measurement Instrument.*** and select the measuring mode (M1, M0 or M2). applicable for device or task.

**4. Select the method of scanning:** by rows, by columns, single patches by line or column.

**5. Begin measuring:** As you begin measuring with the options chosen, grayed out patches are replaced by measurement data. Continue measuring until completed.

4. When measuring is completed, press ***Transmit*** to copy the data into ColorAnt.

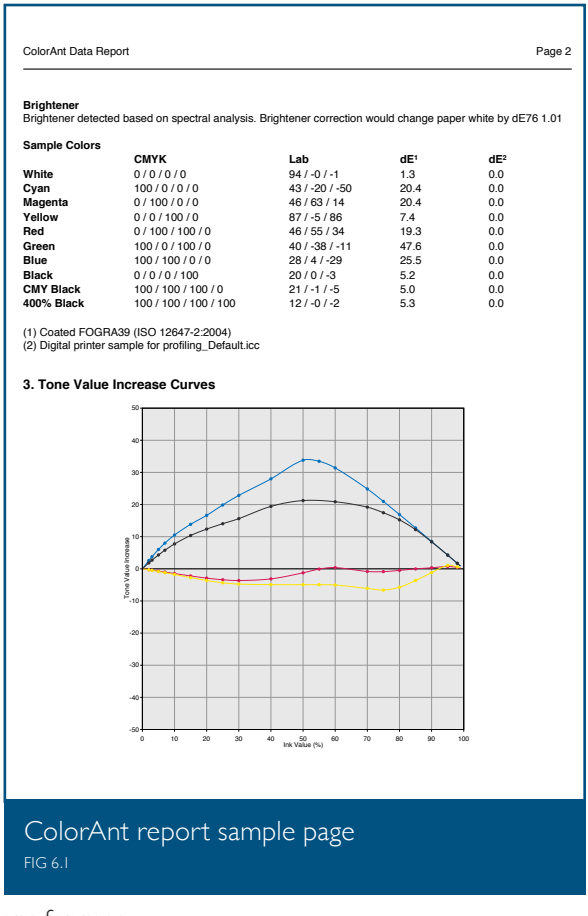
## Reporting

ColorAnt offers detailed reporting for measurement data analysis and provides the user with corrective recommendations for measurement data. Users can customize the logo and report title (as shown). Reports can be generated as pdf files or .xml data.

Features of ColorAnt's ***Report*** tool include Tone Value increase chart and the option of utilizing a layered PDF to view combinations of channels.

ColorAnt will report the presence of optical brightener the deltaE variance and the corrective action needed to improve the measurement data.

Other features of ColorAnt's are available via ColorLogic's ***online help***.


ColorAnt Data Report Page 2

**Brightener**
Brightener detected based on spectral analysis. Brightener correction would change paper white by dE76 1.01

**Sample Colors**

| | CMYK | Lab | dE¹ | dE² |
|---|---|---|---|---|
| **White** | 0 / 0 / 0 / 0 | 94 / -0 / -1 | 1.3 | 0.0 |
| **Cyan** | 100 / 0 / 0 / 0 | 43 / -20 / -50 | 20.4 | 0.0 |
| **Magenta** | 0 / 100 / 0 / 0 | 46 / 63 / 14 | 20.4 | 0.0 |
| **Yellow** | 0 / 0 / 100 / 0 | 87 / -5 / 86 | 7.4 | 0.0 |
| **Red** | 0 / 100 / 100 / 0 | 46 / 55 / 34 | 19.3 | 0.0 |
| **Green** | 100 / 0 / 100 / 0 | 40 / -38 / -11 | 47.6 | 0.0 |
| **Blue** | 100 / 100 / 0 / 0 | 28 / 4 / -29 | 25.5 | 0.0 |
| **Black** | 0 / 0 / 0 / 100 | 20 / 0 / -3 | 5.2 | 0.0 |
| **CMY Black** | 100 / 100 / 100 / 0 | 21 / -1 / -5 | 5.0 | 0.0 |
| **400% Black** | 100 / 100 / 100 / 100 | 12 / -0 / -2 | 5.3 | 0.0 |

(1) Coated FOGRA39 (ISO 12647-2:2004)
(2) Digital printer sample for profiling_Default.icc

**3. Tone Value Increase Curves**



ColorAnt report sample page
FIG 6.1

# EDITING TOOLS

### Redundancies
Remove redundant patches

### Brightener
Correct for Optical Brighteners

### Correction
Detect bad and correct data

### Tone Value
Correct data to a specific print condition

### Smoothing
Smooth the characteristics of measurement data

### Rescale
Recalculate data to a different color chart

### White Correction
Correct paper white

### Edit Primaries
Change primary colors and recalculate measurement data

### Averaging
Average multiple data sets into one data set

### Link
Combine separately measured charts

### ICC Transformation
Convert device data with ICC profiles

### CIE Conversions
Convert measurement data to a different viewing condition

# 05 EDITING

## Redundancies

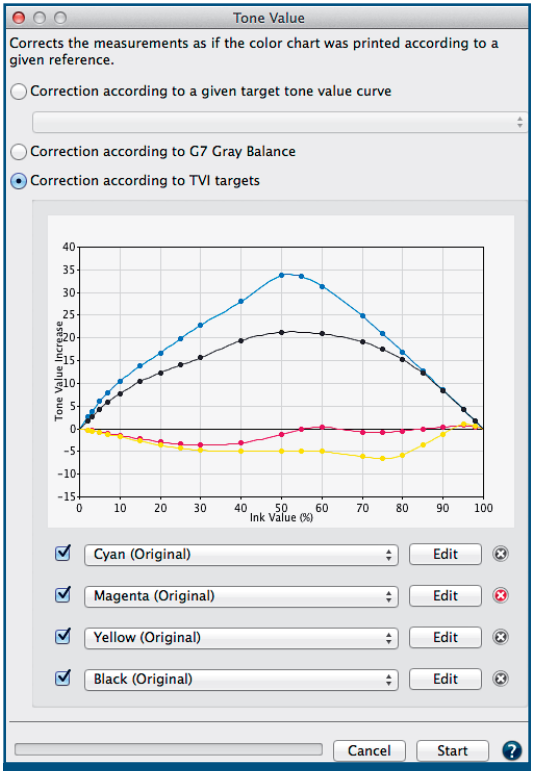
Corrects color patches by averaging the redundant patches and replacing with the same value.

## Correction

The ***Correction*** tool detects faulty measurements or inconsistent measured values and replaces the data with expected measurement values.

## Smoothing

Corrects inhomogeneous measurement data and non-smooth curves by interpolating existing smoothed data. The ***Auto*** correction uses the maximum slider setting.




Tone Value Dialog

FIG 5.1

## White Correction

Apply manual corrections to whitest color patch, typically the paper or other substrate. The ***White Correction*** tool is designed to be used only on a single measurement file.

## Brightener

### Step one: Analysis

The brightener correction analyzes of the remission curve of the paper white to ascertain whether the paper contains optical brighteners or blue-colored paper.

### Step two: Correction

Correction will be applied if optical brightener has been detected. The correction can be adjusted via a

slider control and at 100% setting, a similar result will be achieved as if the paper were measured with a UV cut filter.

## Tone Value

The ***Tone Value*** tool is specifically designed to correct measurement data to a specific set of curves. Data will be corrected with a "what if" the data was printed to (e.g. G7) specific conditions.

ColorAnt's Tone value tool can optimize measurement data according to either a desired tone value increase property or gray balance property.

Three options and methods are available:

### Correct according to a given profile

Specify a profile and the measured values are adjusted to achieve exactly the same tone value increase curves as those achieved with the standard profile that was specified.

### Correction according to G7 Gray Balance

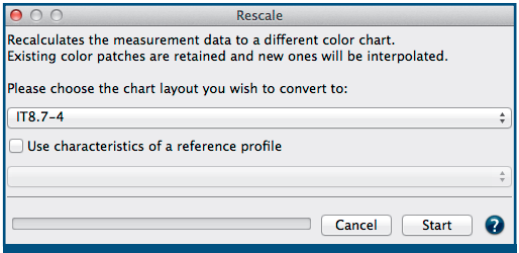
Tone value curves are calculated to match the gray balance requirements of the G7 calibration process.

### Correction according to TVI targets

Manual editing of each channel (Fig 5.1) allows the user to predefine the tone value increases that should be incorporated in the measurement data.

## Rescale

ColorAnt can calculate large test charts (Fig 5.2) that can be used for profiling from small test chart measurement files. Some printing processes, (e.g. flexo printing on uneven materials) pose challenges to an artifact-free printing ECI2002 test chart. The an effective approach to measuring large charts would be to place several small test charts, e.g. ColorLogic Reprofiler strips on one page, measuring the test strips and, averaging them in ColorAnt and then scaling up to a large ECI2002 test chart with the ***Rescale*** tool.




Rescaling a chart to an IT8.7-4
FIG 5.2

## Averaging

Average several measurement files of the same test chart.

## Link

Average multiple test charts into one large measurement file. This tool should be used in conjunction with the ***Redundancies*** tool.

## ICC Transformation

Use both ICC device and DeviceLink profiles on reference data (device

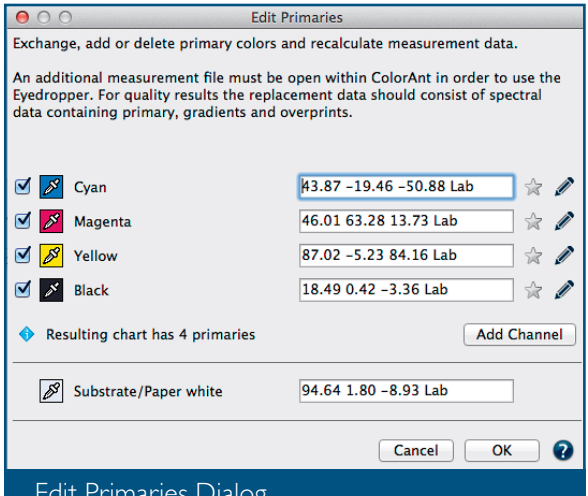
data like CMYK or RGB) to test the impact of an ICC color conversion with up to three profiles.

## CIE Conversion

Change the standard observer, illumination from standard D50.

## Edit Primaries

The ***Edit Primaries*** tool (Fig 5.3) allows users to add, remove, and exchange primaries or the paper/substrate in an existing measured test chart. In typical print production, adding or swapping ink(s) requires the expense of printing a complete test chart. The ***Edit Primaries*** tool simply requires the spectral data of the new ink(s) to be added or exchanged. ***Edit Primaries*** will not only exchange the inks but also recalculate all overprints based on intelligent spectral color models. One of the major features of the ***Edit Primary*** tool is the ability to dynamically choose the best patches from the data provided. The more complete the data that is provided to the ***Edit Primaries*** tool (spectral data is preferred) the more accurate the results. Items that will improve are: the exchange are gradations of the primary color, overprint information, such as the primary combined with black.




Edit Primaries Dialog

FIG 5.3

Scenarios for potential efficiency gain with the ***Edit Primaries*** tool in production :

**Variance in press condition:** The characterization press run is slightly deficient in solid ink density or hue on one or more colors.

**Exchange of paper/substrate:** The inks are the same but a slightly different paper shall be used.

**Exchanging inks in a packaging print production environment:**

Create a new profile that swaps in e.g. Blue for a Cyan or a Rhodamine Red for Magenta.

**Flexibility for the packaging manufacturer:** Create different color variants from a full blown 7 color press characterization data set by deleting channels to building new characterization data sets without

printing a new test chart. For example, from an original 7C data set (e.g. CMYK+Orange+Green+Violet) build variants for CMYK only, CMY+Violet, CMYK+Orange+Green or other combinations. The production facility would need to ensure the press is stable and depending on the color needs of the job(s), and print select the profile with the least amount of channels.

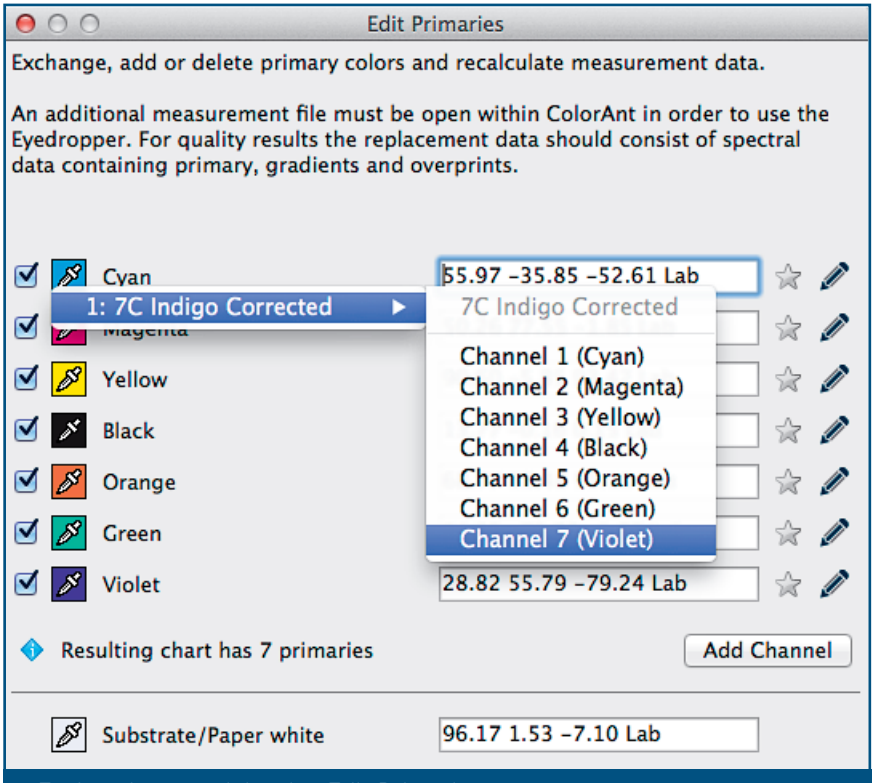
**Increasing CMYK gamut:** Adding a 5th, 6th or 7th color to the CMYK printing process.

## Using Edit Primaries

**ColorLogic's suggested workflow:** Load another data set with the measured new primaries, gradations of the primaries and overprint information.

Select the measurement data of a test chart measurement file for editing and click ***Edit Primary.***

**Exchanging a primary:** Click on the ***eyedropper*** icon of the color to be exchanged. Select the new




Exchanging cyan ink using Edit Primaries

FIG 5.4

primary from another data set loaded in ColorAnt. Click on the channel to be imported to the primary. The screenshot shown (Fig 5.4) with a new Cyan ink that is slightly different. Selecting ink from other channels is also possible.

Click ***OK*** and the data set will be modified.

**Important:** Using Lab values will not produce the highest quality results. ColorLogic recommends using spectral data. When a data set is present, enter a new Lab value for the selected color or select another channel from the same measurement data set to change the printing order.

To check the exchange of primaries, use the ***Compare*** tool to verify the data.

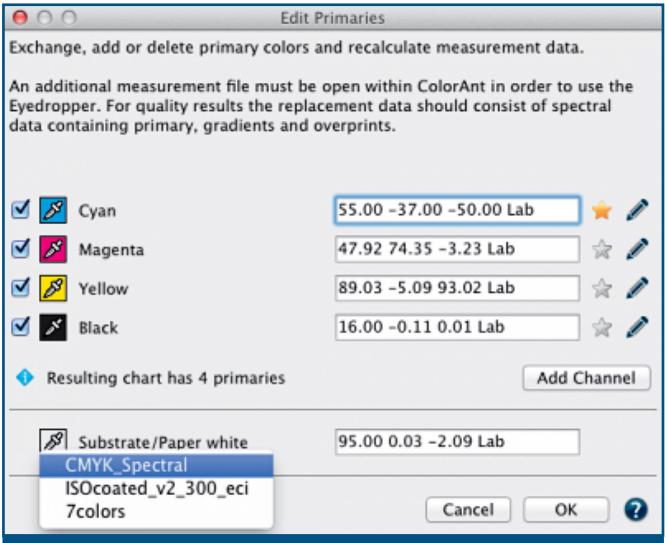
## Exchange of paper/ substrate

Load the test chart measurement data and load the secondary file containing information of the measured paper white into ColorAnt.

Select the measurement data of a test chart for editing and click ***Edit Primaries.***

Click on the ***eyedropper*** icon of the ***Substrate/White*** and select the new paper white from an other data set loaded in ColorAnt (Fig 5.5) Click on the name of the data set to import the data. The second option is to manually enter the new Lab values in the text field.

Click ***OK*** and the data set will be modified.




Exchanging paper white using Edit Primaries

FIG 5.5

## Adding channels

Load the test chart measurement data and load the secondary information with the measured primaries, gradation and overprint information into ColorAnt.

Select the measurement data of a test chart for editing and click ***Edit Primaries.***

## Quick Start Procedure

**Step one:** Click on ***Add Channel.*** A new channel with some default gray Lab values and the channel name ***Auto*** is added.

**Step two:** Click on the ***eyedropper*** icon of the new channel and select the new primary from an other data set loaded in ColorAnt. Click on the ***channel*** to import the data.

The screen-shot shows an example where a 5th Orange color (Fig 5.6) has been added to an original CMYK data set.

To rename the channel click on the ***pencil*** icon and enter the new channel name.

**Step three:** Click OK to generate the new data set.

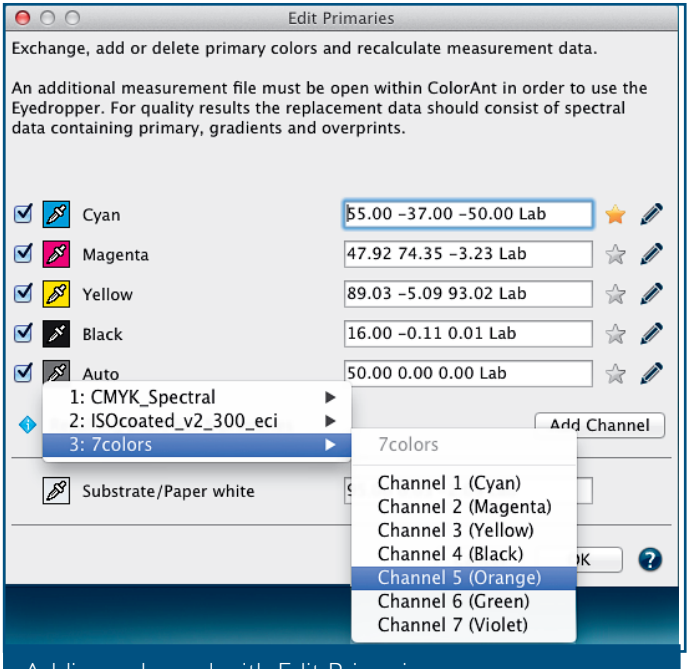
To view the new data set, use the ***View*** tool and select the tabs ***2D, 3D, SpiderWeb, TVI*** to verify that all colors including overprints have been added Additional edits can be made to the curves using the ***Tone value*** tool.

## Removing channels

Load and select the measurement data of a test chart and click ***Edit Primary.***

Disable the checkboxes in front of the channels that need to be deleted and click ***OK***.

The new data set will be reduced to the channels that were selected.




Adding a channel with Edit Primaries

FIG 5.6

ColorAnt

CoPrA

DLS

ZePrA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