



# ColorCert<sup>®</sup> Suite 3.5 User Manual





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# Introducing ColorCert®

ColorCert is a modular job-based color workflow solution that enables the creation of color specifications and provides a reporting scorecard by applying a grade or score to a job, site or client based on tolerances.

- It enables color standardization for packaging and removes subjectivity in quality control with a simple score
- It can be used to link stakeholders in a complete supply chain or within a single production site
- Its comprehensive reporting capability provides insight into areas of opportunity to identify, evaluate and correct



# **ColorCert Desktop Solutions**

The software installer is the same for all Desktop Solutions; the functionality is linked to the purchased license. The following Desktop solutions are available for ColorCert:

ColorCert Manager: Full Desktop module used to capture all printing quality parameters like target colors and tolerances into jobs to be used by other ColorCert desktop modules for quality control and reporting.

ColorCert Inkroom: Client Desktop module used to evaluate color quality based on jobs created by ColorCert Manager or self-created color standard definitions. Supports file formats such as .CXF and .MIF as input and enables reporting via PDF or Microsoft Excel.

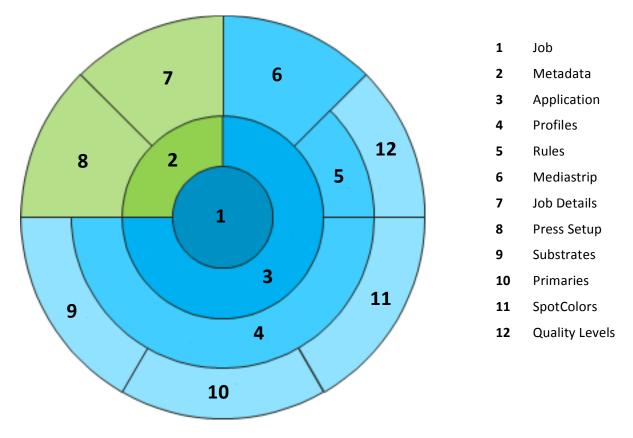
ColorCert Pressroom: Client Desktop module used at press-side for print quality control and reporting. Enables quick job set up based on templates created by ColorCert Manager as well as ability to make quick checks and reports of individual ink colors using the Basic version of the ColorCert Inkroom Tools module included in the main toolbar.

# **Server Solutions**

ColorCert Repository server: Cloud-based portal used to fully manage and deploy color assets across locations and users. Manage access to all ColorCert and many other file formats based on user type, location, brand, workflow stage or other parameters. Full ColorCert Repository functionality is also part of the PantoneLIVE Portal offering.



ColorCert Scorecard server: Cloud-based portal providing at-a-glance view of quality scorecard as part of a print quality control program. Summarize overall quality levels and also consolidate metrics using customizable filters based on plant, machine, customer, work type, or other job parameters.



## Structure of a ColorCert Job and its Assets

Target values for Substrate, Primaries and SpotColors are saved in ColorCert as a Profile, Tolerances are saved as Rules. With both information you automatically have the definition of the Mediastrip. All three components together can be saved as an Application, which can then be used as a template for Job creation with the ColorCert Pressroom Client.

To be able to save a ColorCert Job you need to have an Application and the minimum Job Details, i.e. Job name and Job number. Jobs and all other assets are file based and can be distributed globally. Jobs can contain additional Metadata grouped under Job Details as well as Press Setup.

# **Installing ColorCert**

# **System Requirements**

This section provides the minimum requirements to run the ColorCert modules on your computer, the installation settings, and the supported measurement instruments.



- PC: Windows<sup>®</sup> 7, Windows<sup>®</sup> 8, Window s<sup>®</sup> 8.1, Windows<sup>®</sup> 10
- Mac: Mac OS X 10.10, Mac OS X 10.11, and Mac OS X 10.12

## **Recommended Computer Specifications**

- Free Memory: 512 MB [1024 MB]
- Processor: 1 GHz 32 Bit [2 GHz 64 Bit]
- Display: 1440 x 900 Pixel or higher
- Free Hard Disk Space: 1 GB
- Free Ports: 2 Powered USB ports, 1 or 2 serial ports [depends on device selection]
- Broadband Internet Connection Not required (recommended for online services and databases)

## Remote access through TeamViewer®:

• Allow port 80/443 http communication (via proxy)

#### Access to ColorCert Scorecard Server or ColorCert Repository Server:

- Allow port 80/443 http communication (via proxy)
- Allow access to domain "colorcert.com" (trusted domain)
- Data is encrypted, therefore no https/SSL needed

## **Operating System**

- Allow ColorCert write access to "User/Shared Users" directories or "ProgramData" directory.
- Ensure the following files allow write access:
  - com.nc.ColorCert.Labelprefs
  - com.nc.ColorCert.pref
  - com.nc.ColorCert\_Connection.plist
  - DGCPatches.txt
- Provide option (e.g. user account) to install software/patches/drivers
- Provide option (e.g. user account) to adjust software and system settings
- Allow access to jump drives (e.g. USB flash drives)



## X-Rite Measuring Instrument Support

- ColorCert: X-Rite Edition supports the following X-Rite instruments:
  - eXact/eXact Scan
  - ° 530
  - o **939**
  - SP62/SP64
  - Ci5x/Ci6x
  - SpectroEye
  - In addition to direct instrument support, measurement data from X-Rite IntelliTrax may be used via a drop folder. See specific documentation for setup.

#### Measurement Devices with Serial/Com Port Connection

If the computer does not provide a com/serial port, use a Tripp-Lite Keyspan USA 19HS serial to USB converter.



# Installation

This section describes how to install the application, drivers and other third party software that is required to use ColorCert and its features.

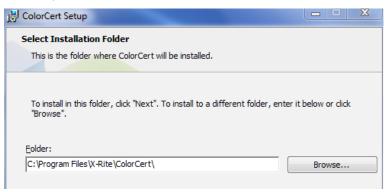
## Installing the ColorCert Application

The following example shows the installation on Windows 7. These steps vary slightly on Mac OS. Mac OS does not require a separate installation for the dongle driver.

- 1. Log into Windows with administrator privileges, or select Run as Administrator during installation.
- 2. Temporarily turn off any active virus detection software.
- 3. Download the latest ColorCert release from <a href="http://www.xrite.com/colorcert-support">http://www.xrite.com/colorcert-support</a>. Download the PC or Mac installer by clicking the appropriate link. Browse to the location of the downloaded file on your computer and launch the installer for your operating system.
- 4. The Setup Wizard will launch. Click Next.



5. Select your Installation Folder. The default destination is C:\Program Files (x86)\X-Rite\ColorCert. Click Next.





6. Read the End-User License Agreement. Accept the terms and click Next.

谩 ColorCert Setup	23
End-User License Agreement Please read the following license agreement carefully	
END USER LICENSE AGREEMENT FOR PANTONELIVE RELATED DESKTOP SOFTWARE	
BY YOUR USE OF THE SOFTWARE, YOU ACKNOWLEDGE THAT YOU HAVE READ THIS AGREEMENT, UNDERSTAND IT, AND AGREE TO BE BOUND BY ITS CONTENTS. YOU ALSO AGREE THAT THIS AGREEMENT IS THE COMPLETE AND EXCLUSIVE STATEMENT OF AGREEMENT BETWEEN X- RITE AND YOU AND SUPERSEDES ALL PRIOR REPRESENTATIONS OR AGREEMENTS, ORAL OR WRITTEN, BETWEEN X-RITE AND YOU REGARDING THE SUBJECT MATTER OF THIS AGREEMENT.	
I accept the terms in the License Agreement	
$\bigcirc$ I do not accept the terms in the License Agreement	
Advanced Installer	
< Back Next > Cancel	

7. Read the System Requirements and click Next.

₿C	ColorCert Setup	×
R	Read me file	
	Please read the following text carefully	
	ColorCert® Release Notes	<u>^</u>
	Release RC 2.5.0 Build 339	
	New Features (since Release 2.0.0 Build 328):	
	<ol> <li>This new version of ColorCert offers full support of eXact Scan (Windows only).</li> </ol>	
	2. Versions are available in French, Italian, and Spanish localization	
	3. Floating Application Switcher Button: System wide floating button that	-
Adv		
	< Back Next > Canc	cel

8. Select any shortcuts you do or do not want and click Next.

授 ColorCert Setup	X
Configure Shortcuts Create application shortcuts	
Create shortcuts for ColorCert in the following locations:	
V Desktop	
V Start Menu Programs folder	
☑ Startup folder	



9. Click Install.

谩 ColorCert Setup	×
Ready to Install	
The Setup Wizard is ready to begin the ColorCert installation	
Click "Install" to begin the installation. If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.	
Advanced Installer	
< Back	icel

10. After the ColorCert application is finished installing, click Finish. If you are installing ColorCert for the first time, uncheck "Launch ColorCert" before you click Finish.

ColorCert Setup	X
	Completing the ColorCert Setup Wizard
	Click the "Finish" button to exit the Setup Wizard.
	< Back Finish Cancel



# Installing the HASP Dongle Driver

To properly enable the dongle, you must install the software drivers on your system. They will be copied in the system folder, which usually is C:\Windows\System32.

1. Open My Computer and browse to C:\Program Files (x86)\X-Rite\ColorCert\MISC\Driver Hasp.

Organize 🔻 🛛 🏀 Oper	n ▼ Print Burn New folder				8==	•	
🔆 Favorites	Name	Date modified	Туре	Size			
E Desktop	🔒 Command-line Installer	5/27/2014 8:49 AM	File folder				
Downloads	HASPUserSetup	8/6/2013 3:35 PM	Application	14,193 KB			
E Recent Places	<ul> <li>readme</li> <li>SafeNet Admin Control Center</li> </ul>	8/6/2013 3:35 PM 5/27/2014 8:49 AM	HTML Document Internet Shortcut	16 KB 1 KB			
Documents Music Fictures Videos Computer Local Disk (C:)							
🗣 Network							

2. Double-click the application HASPUserSetup.exe. Click Yes if prompted by the Windows User Account Control.

😌 Use	Account Control		
$\widehat{\mathbb{O}}$	Do you want to allow the following program from an unknown publisher to make changes to this computer?		
	Program name: Publisher: File origin:	C:\Users\Robert Grotans\Desktop\For Robert\ColorCert323b6.msi <b>Unknown</b> Hard drive on this computer	
Show details			
		Change when these notifications appear	

3. The Sentinel Runtime Installation Wizard will be displayed. Click Next.

😸 Sentinel Runtime Setup	
	Welcome to the Sentinel Runtime Installation Wizard
s and	It is strongly recommended that you exit all Windows programs before running this setup program.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Click Cancel to quit the setup program, then close any programs you have running. Click Next to continue the installation.
	WARNING: This program is protected by copyright law and international treaties.
н н т - DI - нК) н н - м/п - м - м - м - м н - м	Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
e s p s s s s s s s s s s s s s s s s s	
	< Back Next > Cancel

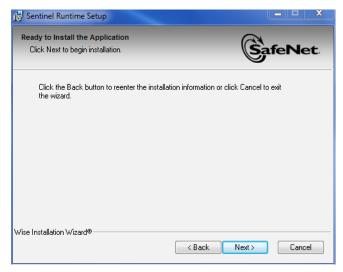


4.

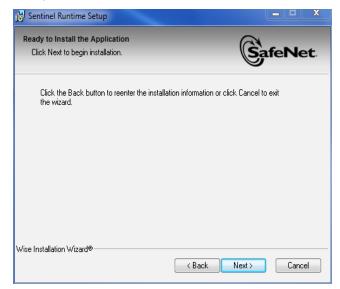
Read and accept the License Agreement and click Next.

License Agreement You must agree with th	e license agreement below to proceed.	SafeNet
SAFENET SEI LICENSE AGF		T END USER
USING THE CONTENTS INSTALLING THE SOFTW SENTINEL® LDK PRODUC	ON - PLEASE READ THIS AGREEMENT OF THE PACKAGE AND/OR BEFORE DO VARE PRODUCT. ALL ORDERS FOR AN CTS (including without limitation, the Develo Sentinel keys, the software component of S	DWNLOADING OR D USE OF THE per's Kit, libraries, utilities,

5. Click Next.



6. It may take a few minutes for the driver to install. Press Finish when it is done.



🛃 Sentinel Runtime Setup		
Updating System The features you selected ar	e currently being installed.	SafeN
Install drivers		
Wise Installation Wizard®		
Wise Installation Wizard®		Ca
Wise Installation Wizard®	Sentinel Runtime ba	
	Sentinel Runtime ha successfully installe	as been
Sentinel Runtime Setup		as been ed.

# Installing a PDF Reader for Documentation and Reports

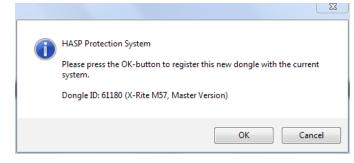
If you do not have a pdf reader, such as Adobe<sup>®</sup> Reader, you must install one. Adobe Reader is available at get.adobe.com/reader.



# **ColorCert License Activation**

ColorCert dongle activation is for permanent use on only one computer. The first time you launch ColorCert, you will need to link your license file to your dongle and computer. If you need to move the software to a new computer in the future, contact X-Rite for cost and procedure to permanently move to another system.

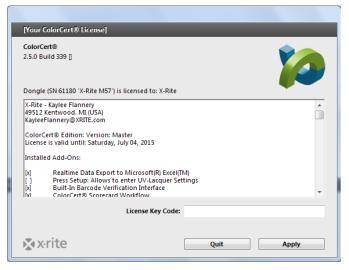
- 1. Unzip the file that you receive from CC License via email and copy the ColorCert license file to your computer's desktop.
- 2. Plug the dongle into your USB port.
- 3. Launch ColorCert.
- 4. Click OK to register your dongle with the current system.



5. Click OK again once the license has been successfully updated.

ColorCert®	Chooser	23
i	Done Your ColorCert® License has been successfully updated	d.
	Ok	:

6. Enter the license key you received and click Apply.





7. ColorCert is now ready to be configured for use. Click OK.



8. The application launches with the ColorCert Chooser.

ColorC	ert® C	Chooser			
Window	Edit	Repository	PantoneLIVE™ Help		
- 4				(OCT	
	7		olor		
			ColorCert® Release 2.6.0 E	Build 374 [Beta-Release Version]	
			X-Rite, Incorporated ColorCert® is a registered	trademark	
			All Rights Reserved.		
			Registered to n[c] DEV	/ELOPMENT	
			n[c] Germany RD		
			Bismarck Strasse 19 Wuppertal 42115		
			Germany		
[Choos	er]				
Act	As Clier	nt			Editors 👻
	5	•			
		-			Ľ→
Pr	essroo	m Tools	Proofing Tools	Inkroom Tools	Dotgain Tools
		•			•
De	vice				
X	rite	2		Feedback +	Quit
				•	



# **Initial Setup**

Next you must review the Preferences for your initial setup. There are a number of items you can set up later, but this section explains how to configure your spectrophotometer.

## **Setting System Preferences**

- 1. Begin by connecting your X-Rite measurement device to your computer.
  - Note that all measurements taken within ColorCert will use your ColorCert settings, not the settings from your measurement device. The only setting that must be made on the instrument is the switch for measurement mode.
  - On the eXact, if this is set to 1, the software will be limited to M1 measurements. If it is set to 0, the software will be able to measure in M0, M2, or M3 modes.



2. When using the Windows version, go to the File menu and select Preferences. On the Mac, go to the ColorCert menu and select Preferences.



3. Select the Devices tab and choose your spectrophotometer from the list.

0						×
					_	
Program	Files Application	Devices Labelprin	iter Network	Misc Add-On	s Versions	Job Setup Wizard
Instruments						
	Offline					
	Recommended Instruments					
	X-Rite eXact [Spectrodensito]	meterl	Use Bi	uilt-In Driver	1	-
	X-Rite 530 [Spectrodensitom]			ep off ▼		
	© X-Rite 939 [Spectrodensitom					Reconnect
	🔿 X-Rite SP62/SP64 [Spherical S	Spectrophotometer]			<u> </u>	Reconnect
	◎ X-Rite Series Ci5x/Ci6x [Sphe	rical Spectrophotometer]	Enable	e NetProfiler		
	X-Rite SpectroEye [Spectrode	ensitometer]				
	Other Instruments					
V. Dite VDCA	Handling Legacy Data on Import					
A ARCANGA						
	Ask on non-disclosed Origin	1				
	O Auto-Assign the Origin:					Default
🔊 x·rite						Close
Avrile						Close

- 4. Click the Reconnect button.
- 5. A dialog box informing you that your device is connected will appear. You should see a green indicator next to the reconnect button indicating that you have a connection. You will see this indicator, along with a button, in other windows of the application where you will use the instrument. If this is red, the instrument has lost connection. You can click the button to reestablish the connection.
  - If there is an error, click OK, then check your connections and try again.
  - If it says that the device was connected, click OK to close the dialog.



6. Select the Workflow tab and enter the default length of your patches under MeasureTool. To follow the step by step guide later in this StartUp Guide, enter a patch size of 5 mm. Please also change Warn upon suspected measurements to 20. This allows you to automatically accept your measurements even with a badly printed copy of the sheet that the step by step guide refers to.

MeasureTool	_					
?	<ul> <li>Mediastrip: Prefer Custom Patch Order</li> <li>Double-Click a Patch to take single Reading</li> <li>Default size of printed Patches:</li> </ul>					
	() (mm	🔘 inch	5.0 mm			
_	• on suspect measure Resulting Color in Av		> 20.0 ∆E			
			Default			

7. Click the Close button. You are done.



# **ColorCert Software**

This section discusses the software interface and provides an overview of the tools, their uses and a step by step guide of measuring a sample sheet for an existing job.

## **The Chooser**

The main window is called the Chooser. This will look different based on the license you purchased. The Manager is used to define Jobs, Profiles, Rules, Applications, Substrates, Inks, Tolerances. It includes all available Tools.

🞾 ColorCert® Chooser			
Window Edit Repository Par	ntoneLIVE™ Help		
		<b>Ceck</b> Build 18 [Beta-Release Version] trademark	
[Chooser]			
Act As Pressroom Client	Proofing Tools	Inkroom Tools	Editors v
🔊 x·rite		Feedback v	Quit



The Pressroom Client has access to Pressroom Tools to load existing Jobs to monitor production and generate Scorecards.

🞾 ColorCert®	Chooser		
Window Ed	it Repository	PantoneLIVE™ Help	
Í		ColorCert® Release 3.0.0 BR X-Rite, Incorporated ColorCert® is a registered t All Rights Reserved.	
		Registered to RGB X-Rite Professional Services 4300 44th Street SE Kentwood MI 49512 USA	
[Chooser]	essroom Client		
		•	
	Pressro	om Tools •	Inkroom Tools   Basic
X-Rite e	Xact		
s x•rit	te		Feedback v Quit



#### Editors

The first step of the process is to create the Profile (color references) and Rules (tolerances). Some colors can also be sorted into Libraries. Use the Editors to define Profiles, Rules and ColorCert Libraries.

#### Job, Application, Mediastrip

Here you can combine predefined profiles and rules into an application. You can create jobs or build a custom Mediastrip.

#### **Profile Editor**

A ColorCert Profile is a set of color references. The color references include Inks, SpotColors, Substrates and Backing Material. A ColorCert Ink includes tint values and may or may not be included in the process builds of a color in the Job. A ColorCert SpotColor defines only a single value of a color that will be used in the Job. It may be the result of a "real ink" such as a formulated PANTONE Ink run at 100%, it may be a single screened tint value of a formulated PANTONE Ink, or it may even be a build of a color from Process Inks. A ColorCert SpotColor simply represents an important Brand Color in the Job, no matter how it is produced. This will be explained in more detail later. Backing Material is used under non-opaque Substrates to help standardize the measurement process for media that is not completely opaque. A Profile also includes information about the measurement and press conditions.

#### Rules Editor

This editor is used to create Rules that define what will be evaluated or measured and the tolerances that will be used. Different levels of tolerance can be applied to different classifications of importance of inks and SpotColors. Proofing tolerances can be established at a more critical level than the production work. Tolerances can be established for a variety of items including solids, dot gain values, minimum dot, substrate, and visual characteristics.

#### ColorCert Library Editor

ColorCert Libraries are collections of Ink, SpotColors, Substrates, and/or measured Backing Materials. This is useful for sorting colors for different types of printing. NOTE: PantoneLIVE Colors cannot be stored in ColorCert Libraries.

#### Pressroom Tools

In the Pressroom Tools you can load individual and multiple Jobs. Jobs can be created in two different ways. Select the Job Setup Wizard from this tool or use Jobs, Applications, Mediastrips from the Editors menu. Use the Jobs to measure and score production work. The completed Jobs can be uploaded automatically to a Scorecard Server.

Proofing Tools are very similar to Pressroom Tools, except you can only open individual Jobs, and you can define narrower tolerances in the Rules for proofing.

#### Inkroom Tools

For information and troubleshooting ink color and density on press, the Inkroom Tools provide color comparisons of stored or measured standards to the press samples. Feedback includes suggestions on parameters that can be changed on press to fix the problem, or if an ink cannot be adjusted to match, to reformulate it. This tool can be accessed in the Manager version of the Chooser or in the Pressroom Tools (if enabled in the Preferences) with limited functionality.



Dot Gain Tools are used to calibrate the press or proofer dot gain characteristics. To do this, a printing chart will be generated and run on press or the proofer, then measured to generate a calibration curve. The curve can be exported for use in the platesetter RIP or can be applied to an ICC profile.

## Feedback

In the Feedback menu, you can Suggest a Feature, Report a Bug, or Contact a support or sales representative from xrite.com.



# Step by Step Guide: An Overview of How ColorCert Works

This section walks you through examples of how ColorCert can be used in a production environment. To follow this step by step guide please download the ColorCert<sup>®</sup> ColorBasics Sample Data from: <u>http://www.xrite.com/colorcert/Library</u>

The sample data are based on the hardcopy sample sheet called Color Basics for Pressroom that you received with your the eXact device. If you do not have that sheet you can download it from the above location.

NOTE: Please make sure to print the sheet in the correct size. Your print result will vary from the original sheet and your measurements might not stay within the tolerances for this job, but it will help you to follow the steps.

Unzip the file and copy the contents to the folders of the same names in the following directory:

- Mac OSX: Macintosh HD/Users/Shared/ColorCert Data/
- Windows: C:\Users\Public\Documents\ColorCert Data

During production you will need to know how to load a Job and how to measure Samples in the Pressroom Tool. This is possible with the Client as well as with the Manager license.

This step by step guide first shows you the workflow when working with an existing Job. This is the typical operator's task using the Pressroom Client.

The second half of this step by step guide you will show you how to setup Jobs. This function is only available in the Manager version.

# Measuring Patch-By-Patch using an existing Job

eXact and other Measurement Devices

- 1. Connect your X-Rite spectrophotometer.
- 2. Launch the ColorCert software.
- 3. Click on Pressroom Tools, and select Load Job.
- 4. Select the sample Job Color\_Basics\_Job.ccj.



5. This opens the Job Details.

🔪 Color_Basics_Job					
File Edit Mediast	rip© Window Tools Job Select	tion Mode Reposite	ory PantoneLIVE™ Help		
	s Setup MediaStrip	Primaries	Dot Gain Spot Colors	Summary	Scorecard inkroom Tools Application
Design	_	Color Separator		Printer	
Name:	Color Basics Job	* Name:	Sample Separator	* Name	Sample Printer *
Job No:	123456	* Contact:	Ima Sample	Contact	: Ima Sample 🏦
Customer:	Sample Customer				
Business Unit:		Phone:		Phone	a
Brand:		Fax:		Fax	
Variety:		Email Address:	ima.contact@sampleseparator.com	Email Address	: ima.contact@sampleprinter.com
UPC / Spec No:			Sample Street		s Sample Street
Prod Order No:			12345		12345
Artwork Target:			Sampletown		Sampletown
Orientation:	Surface •	State:		State	
Screen Count:	<b></b>	Country:		Country	
Screening Type:		Supplier Code:		Supplier Code	
Screening type:		Supplier Code.		Supplier Code	a 
Lot Size:					
Supply As:	🔘 Roll 🛛 🔘 Pallet 🛛 💿 Sample	2			
	1999) 	Reporting		Files	
Job Preview:		Destination:		Naming	Color_Basics_Job
Remove		Production Date Proof:		Press Run	د سه
🔊 x rite		Sample	Proof M	1easureTool	eXact

6. Click MeasureTool at the bottom of the window.

NOTE: The X-Rite eXact Scan scans multiple patches on Mediastrips, while all other supported X-Rite instruments measure individual color patches. The following steps may vary depending on which X-Rite device you are using. To complete these steps successfully, follow the instructions for your device. For the eXact Scan, follow the instructions under Scanning a Mediastrip using an existing Job. For the eXact and other device, use the following instructions.

When using an eXact with Scan functionality enabled: A window appears asking for a measurement of the substrate. Use your eXact instrument to measure the Substrate. A message confirms that the Substrate has been accepted.

[Substrate]	[Substrate]
eXact Substrate Calibration Place the Instrument on plain Substrate and take a Reading.	eXact Substrate Calibration       ?     Substrate accepted
Measure Close	Remeasure OK



7. The Mediastrip Selector opens. Click Manual [Patch By Patch].

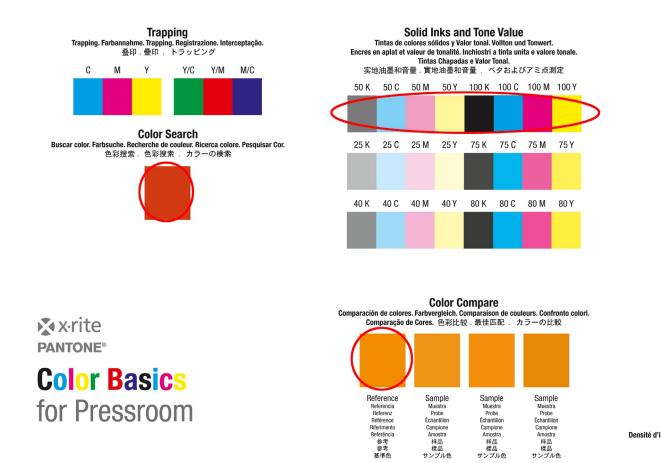
8	
[Mediastrip Selector]	
Select Version As Printed	
Scan [Single Row]	
Scan [2-Part]	
Scan [Ink By Ink]	
Manual [Patch By Patch]	SpotColors   Primaries in Line
<b>™</b> x•rite	Set Length [inch] OK Close

- 8. Click OK. The MeasureTool opens.
  - You can now measure the individual patches as indicated in the MeasureTool.

[MeasureTool]			
			Clear Patch Clear All
(?) Manual [Patch By Patch	n]   Primaries 🔹		Substrate
			Averaging
<b>∑</b> x∙rite	🖉 Auto Toggle 🛛 📝 Auto Clos	e Mediastrip Selector	eXact T Close



NOTE: The order in this window does not correspond to the order of patches on the sheet. Since this is not a scan measurement, the patch order does not matter.



• After the primary colors are measured, the next window shows the SpotColors. Locate the orange and green patches on your Color Basics sheet and repeat the process.

[Measure]	[ool]	_	-	
?	Manual [Patch By P	atch]   SpotColors		Clear Patch Clear All Color Basics Orange
•				Color Basics Orange
				Averaging
<b>⊗</b> x•ri	te	👽 Auto Toggle	🛛 Auto Close	Mediastrip Selector eXact - Close

9. Please continue with the section Measurement and Data Review.



# Measuring a Mediastrip using an existing Job

For eXact Scan

- 1. Connect your X-Rite eXact Scan spectrophotometer.
- 2. Launch the ColorCert software.
- 3. Click on Pressroom Tools, and select Load Job.
- 4. Select the sample Job Color\_Basics\_Scan\_Job.ccj.
- 5. This opens the Job Details.
- 6. Click MeasureTool at the bottom of the window. A window appears asking for a measurement of the substrate. Use your eXact instrument to measure the Substrate. A message confirms that the Substrate has been accepted.

[Substrate]	[Substrate]
eXact Substrate Calibration	eXact Substrate Calibration
Place the Instrument on plain Substrate and take a Reading.	<ul> <li>Substrate accepted</li> </ul>
Measure Close	Remeasure OK

7. The Mediastrip Selector opens. Click Scan [2-Part].

8. Click OK.



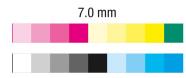
#### 9. The MeasureTool opens. Scan the Mediastrip as indicated in the MeasureTool.

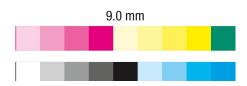
[MeasureTool]					
Part 1 Part 2           Part 1         Part 2           Image: Construction of the second seco				Clear Row Clear	All
Double-Click a Patch to take sin	gle Reading.			Avera	ging
karite	💟 Auto Toggle	👽 Auto Close	Mediastrip Selector	eXact v	Close
[MeasureTool]					
Part 1 Part 2	]			Clear Row Clea	r All
	]			Clear Row Clea	ır All
Part 1 Part 2	) 			Clear Row Clea	

Solid Inks and Tone Value colores sólidos y Valor tonal. Voliton und Tonwert. t valeur de tonalité. Inchiostri a tinta unita e valore tonale. Tintas Chapadas e Valor Tonal. i音量,實地油墨和音量, ベタおよびアミ点測定











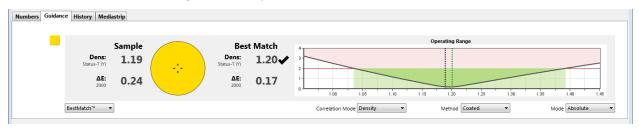
#### Measurement and Data Review

Once finished, the MeasureTool closes. As you look across the top of the window, items that have a green check mark have been completed successfully. Any items with a red X are areas that have measurements that have failed.

 Click on the Primaries tab. You will see which primaries passed and which failed. The ΔE indicates the size of the error, and the tolerance shows the amount of error that is acceptable. Select individual colors to view their values. The screenshot below shows the values for yellow.

	Repository PantoneLIVE								
	rimaries Dot Gain		Σ iummary	Scorecard	Inkroom Tools A	pplication Preference	ies		
:5]	_	_	-	_	_	_	_	-	-
Primaries	ΔΕ00	(1:1:1) <sup>SC</sup>		∆ Density			Qua	lity Level	FI
Color Basics Black		0.16		0.01			-		
Color Basics Cyan		0.10		0.01			-		
Color Basics Magenta		0.19		-0.00			_		
Color Basics Yellow		0.24		0.02					
Tolerance:		3.50		± 5.00			Bes	t Match:	Dens: 1.20
Substrate Name		ΔE <sup>SC</sup>		∆ CIE Whiteness		∆ Opacity	% Qua	ity Level	FI
Color Basics Paper		1.60		6.84		3.	51		
uidance History Mediastrip									Talas
Unit	Target	Sample	Diff	Tolerance Result			Method	Diff	
Unit L	88.07	88.03	-0.04	Tolerance Result			ΔE00 (1:1:1)	0.24	3.50
Unit	-			Tolerance Result					3.50
Unit	88.07 -3.92	88.03 -3.90	-0.04 0.02	Tolerance Result			ΔE00 (1:1:1) Δ Density	0.24 0.02	3.50
Unit L a b C h	88.07 -3.92 102.18 102.25 92.19	88.03 -3.90 100.86 100.93 92.21	-0.04 0.02 -1.32 -1.32 0.02	Tolerance Result			ΔE00 (1:1:1) Δ Density	0.24 0.02	3.50
Unit L a b C	88.07 -3.92 102.18 102.25	88.03 -3.90 100.86 100.93	-0.04 0.02 -1.32 -1.32	Tolerance Result			ΔE00 (1:1:1) Δ Density	0.24 0.02	3.50
Unit L a b C h	88.07 -3.92 102.18 102.25 92.19	88.03 -3.90 100.86 100.93 92.21	-0.04 0.02 -1.32 -1.32 0.02	Tolerance Result			ΔE00 (1:1:1) Δ Density	0.24 0.02	3.50
Unit L a b C h Strength (SUM)	88.07 -3.92 102.18 102.25 92.19 100%	88.03 -3.90 100.86 100.93 92.21 93%	-0.04 0.02 -1.32 -1.32 0.02 -7%	Tolerance Result	Colorsp.	sce <u>CIELab</u>	ΔΕ00 (1:1:1) Δ Density [ΔΕ]	0.24 0.02	3.50 ± 5.00

- 2. The Numbers tab at the bottom of the window shows numeric details for the selected color. If you are using a Manager license you can temporarily adjust some of the calculations.
- 3. Select the Guidance tab to display the BestMatch graph. This graph provides the press operator a convenient reference for adjustments. If a color is out of tolerance, the press operator can immediately see if the defined tolerance is achievable with density or strength adjustments alone, or if ink adjustments are required. This saves time and material during make-ready.



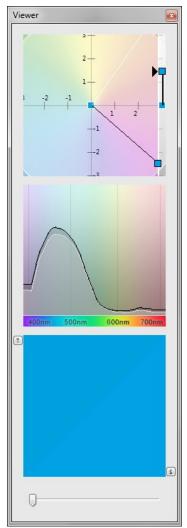


4. The Viewer window will show the selected color in the graphs. The top graph shows the target value and the measured value with in L\*a\*b\* Color Space. The second window shows the spectral curve of the measured color. The bottom window shows a relative comparison of the colors. These graphs can help you visualize the difference in the colors to assist in troubleshooting the Job.

If the curves are very similar in shape but at different levels, you may be able to get a better match by adjusting the density on press. However, if the curves are very different, this may mean that you cannot match the color with any press adjustments.

If your Viewer doesn't open when selecting a color, select File from the menu bar and select Auto Show Color Viewer.

5. Click on each of the Primaries in the list and observe the graphs.





6. Click on the DotGain icon.

	•												1 23
File Edit Mediastr	rip© Window Tools Job S			antoneLIVE™ H	elp								
	s Setup MediaStrip		imaries D	t Gain Spot	Colors Summa		Scorecard	Inkroom Too	Application	Preferences			
[Dot Gain]													
1	Ink Name					ΔDot G	ain @ 25%	@ 50%	@ 75%		Quality Level		
	Color Basics Black						-1.8%	-1.2%	-0.5%			1	
	Color Basics Cyan					Tolerance:	-3.2% ±3.0%	-1.4% ±4.0%	-0.5% ±3.0%		I.	×	
	Color Basics Magenta					Tolerance:	-2.7%	-1.7%	-0.4%			4	
	0						-3.1%	-2.776	-0.470			×	
	Mode Dot Gain	•											
Numbers Guidance	e   History   Mediastrip												
lumbers Guidance	Unit	Dot Area	Target	Sample	ADot Gain	Tolerance		Ret	ult [out]				
lumbers Guidance	Unit Dot Gain	@ 25.0%	+18.3%	+15.1%	-3.2%	±3.0%		Re	-0.2%				
Numbers Guidanc	Unit							Re					
Numbers Guidance	Unit Dot Gain Dot Gain	@ 25.0% @ 50.0%	+18.3% +15.5%	+15.1% +14.1%	-3.2% -1.4%	±3.0% ±4.0%		Re	-0.2% PASSED				
Numbers Guidance	Unit Dot Gain Dot Gain	@ 25.0% @ 50.0%	+18.3% +15.5%	+15.1% +14.1%	-3.2% -1.4%	±3.0% ±4.0%		Re	-0.2% PASSED				
lumbers Guidanc	Unit Dot Gain Dot Gain Dot Gain	@ 25.0% @ 50.0%	+18.3% +15.5%	+15.1% +14.1%	-3.2% -1.4%	±3.0% ±4.0%		Re	-0.2% PASSED			 	
4umbers Guidance	Unit Dot Gain Dot Gain Dot Gain	@ 25.0% @ 50.0%	+18.3% +15.5%	+15.1% +14.1%	-3.2% -1.4%	±3.0% ±4.0%		Re	-0.2% PASSED				
Numbers Guidance	Unit Dot Gain Dot Gain Dot Gain Î Murray Davies	© 25.0% © 50.0% © 75.0%	+18.3% +15.5%	+15.1% +14.1%	-3.2% -1.4%	±3.0% ±4.0%		Re	-0.2% PASSED				
łumbers Guidanc	Unit Dot Gain Dot Gain Dot Gain Î Murray Davies	© 25.0% © 50.0% © 75.0%	+18.3% +15.5%	+15.1% +14.1%	-3.2% -1.4%	±3.0% ±4.0% ±3.0%		Re	-0.2% PASSED PASSED	MeasureTool	eXact	Close	

You can see the pass/fail status of the dot gain patches. Use the drop down list Mode to change the mode of the displayed values from delta to absolute Dot Value, or to highlight which results are how far out on the quality level.

Ink Name	Dot Coverage	25% @	50% @ 75%	6 Quality Level	<b>FI</b>	
Color Basics Black		42.7% 7	71.6% 88.7%	5 <b></b>	-	× .
Olor Basics Cyan		40.1% 6	64.1% 86.5%	; · · · · · · · · · · · · · · · · · · ·		×
	Tolerance:	±3.0% ±	±4.0% ±3.0%	6		
Color Basics Magenta		33.5% <del>e</del>	63.5% 86.1%	· · · · · · · · · · · · · · · · · · ·		× .
Color Basics Yellow		34.1% 6	66.1% 91.1%	; I		×
Mode Dot Coverage 🔻						
MODE DU COVERAGE						
Ink Name	[out] @	9 25% @	50% @ 75%	; Quality Level	<b>FI</b>	
	[out] @	0 25% @ 	50% @ 75% 		<b>FI</b>	
Ink Name						×
Ink Name Color Basics Black		-0.2%			ÞI	
Ink Name Color Basics Black		-0.2%				



7. Now click the SpotColors tab. This is very similar to the Primaries tab.

NOTE: your window may show orange and red if you have opened the Color Basic Job

Color_Basics_Job_Scan				Viewer 🛛
File Edit Mediastrip® Window Teols Job Sel Job Details Press Setup MediaStrip [SpotColors]	ection Mode Repository PantoneLNE <sup>9</sup> Help Primaries Dot Gain Spot Colors Summary	r Scorecard Inknown Tools Application Preferences	_	1
SpotColor Olor Basics Green Tole	0.19 2.00		Quality Level	05 1
				600mm 600mm 700mm
Numbers Guidance History Mediastrip				<b>(</b> )
				<u>د</u>
Sample Dens: 1.50 Statu-7 (C) 0.19	Best Match           Dens:         1.50 √           Statut <sup>2</sup> 2           AE:         0.19           1379         Const the layered.	Operating Range	1.50 1.25 1.70 1.75	0
BestMatch™ ▼		Correlation Mode Density   Method Costed	• Mode Absolute •	
karite		Sample 1/0 , () Proof MeasureTool	eXact v Close	



8. Click the Summary tab. You will see how well this Job scored, based on the requirements defined in the Rules that were included in the Application that you loaded at the beginning of this step by step guide. The Job Report will include the data from several samples or measurements through a run. Click Save As Sample to add these measurements to the Job Report.

Delor_Basics_Job	Scan cci							
	trip© Window Tools Job Se	election Mode Reposit	ory PantoneLIVE™ Help					
Job Details Pre	Setup MediaStrip	Primaries	Dot Gain Spot Colors	<u>Summary</u>	Scorecard	Inkroom Tools	Application Preferences	_
History =	Current Measurement Quality Level: Number of Issues:	_				Rating 85 2	Level <b>Fid</b>	×
	Current Measurement	_				Rating	Level <b>Fid</b>	Result
	Score [Sample 2]					68		ACCEPTABLE
Log +		Sample 01 02	Primaries X X		SpotColors X X		Sample Saved X X	Report Saved X X
							Save As Sample	Complete Job
k v rite				Sampl	le 2/2 🔻 🚺 🕨	Proof	MeasureTool	eXact 🔹 Close

9. To continue reading additional measurements simply continue measuring. After each measurement, you can view the results to help improve the production.



- 10. After you have saved a few sets of measurements as samples, click on the Primaries tab.
- 11. At the bottom of this page, click on the History tab to see the Quality Level of the selected color in the order the measurements were measured. After selecting a sample number from the bar graphs, all of the displayed measurements will be presented for that sample.

Quality Level Color Basics	Black			
100				
	1	2	3	

- 12. You can also use the navigation on the bottom to move between the Samples of each selected color. If you are using a Manager license, you also have access to the Trend Show.
- 13. You can click through different tabs and colors to see all of the results from that specific saved sample.
- 14. You can also see the Viewer window changes to show the selected measurement for the selected sample.
- 15. At any time during the run, you can see your Scorecard results. Click on the Scorecard tab.

Color_Basics_Job_Scan	
File Edit Mediastrip© Window Tools Job Selection Mode Repository PantoneLIVE™ Help	
job Details Press Setup MedaStrip Primaries Dot Cain Spot Colors Summary	Scorecard Informa Tools Application
[Scorecard]	
Job Quality Levels	Rating Level
Primaries:	95 <b>*</b>
Dot Gain: SpotColors:	90
Substrate:	72
Quality Level:	84
Factor	Rating Level
Rate of Compliance: [Samples 95% in Spec]	0.95
Job Total	Rating Level <b>Fig</b> Result
Score:	80 ACCEPTABLE
	Current Sample
xrite Sam	nple 2/3 v Proof MeasureTool eXact v Close



- 16. This will show the results of the run. If you would like to see the results of the last sample measured, click on Current Sample. This can be used to see if your current production is conforming against the average of the whole run.
- 17. The overall score is a calculation using a combination of all measurements rated against the target and the rate of compliance. See separate documentation for more details.
- 18. After you have completed all measurements and have reviewed your data, return to the Summary tab, and click Complete Job to save all of the data. Depending on how the system is configured, the report will be sent to a printer, and/or an email will be sent.
- 19. Once you have completed the Job, no other measurements will be accepted in this Job. Close the Job.

This is just one way that ColorCert can be used in Production. Since every workflow varies, you can customize the process to fit your needs. Next we will look at how an Administrator can use ColorCert to set up and oversee the workflow.



# **Creating ColorCert Standards, Profiles, Rules, and Jobs**

This section describes tools that are available when using the ColorCert Manager license to configure the print standards, tolerances and other quality control checks with ColorCert. Although your workflow may vary, this provides a good starting point for developing your own Rules, Standards, and Profiles.

Normally, some of the steps for creating Color Standard target values will require measurement of a customer approved color sample, perhaps a press sheet. If you wish to practice these steps on your own before creating standards to be used in production, you can use the Color Basics for Pressroom sheet that comes with the X-Rite eXact.

In many cases, you can load various files into the application instead of manually entering data. Before continuing, please familiarize yourself with the process of loading different file types from various available locations.

## Loading files into ColorCert

## PantoneLIVE Cloud database:

If you want to use colors from PantoneLIVE, you first have to setup the PantoneLIVE connection and select a required color pallet, you want to use.

### Adding PantoneLIVE login info to ColorCert:

- 1. In the ColorCert Chooser, select PantoneLIVE from the main menu and then User Login.
- 2. Enter the following server: https://ws.pantonelive.com.
- Enter your My X-Rite username and password into the appropriate fields.
   NOTE: Make sure this is the login that is associated with the ColorCert PantoneLIVE license.
- 4. Click Log In.

#### Selecting a PantoneLIVE palette:

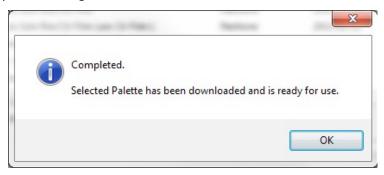
- 1. In the Main Menu, click on Select Palette under the PantoneLIVE menu.
- 2. You see a list of palettes that you have access to, including any standard PANTONE Fandeck palettes and other reference palettes that you are authorized to access.



3. Double-click the required palette for the Substrate that you need, or highlight it and click Select.

PantoneLIVE™ Palette Picker]				
Entries: 32	Search:			
SEFERRED PARTNER JuniChemical		Shov	v All	
Name	Brand	Created	Status	Substrate
Carton Flexo Solv Virgin Carton Board V	Pantone	2013-02-13	Live	Virgin Carte
Carton Offset Recycled Carton Board V	Pantone	2012-02-15	Live	Recycled Ca
Carton Offset UV Recycled Carton Board V	Pantone	2013-02-18	Live	Recycled Ca
Carton Offset UV Virgin Carton Board V	Pantone	2013-02-22	Live	Virgin Cart
Carton Offset Virgin Carton Board V	Pantone	2013-02-22	Live	Virgin Cart
Flexibles Flexo Solv (H) Wht Film	Pantone	2012-02-15	Live	Wht Film
Flexibles Flexo Solv Rev/Clr Film	Pantone	2013-02-08	Live	Rev/Clr Film
Flexibles Flexo Solv Rev/Clr Film Lam Clr Film L	Pantone	2013-02-13	Live	Rev/Clr Film
Flexibles Flexo Solv Rev/Clr Film Lam Wht Film L	Pantone	2013-02-13	Live	Rev/Clr Film
Flexibles Flexo Solv Rev/Clr Film/Wht Ink	Pantone	2013-02-08	Live	Rev/Clr Film
Flexibles Flexo Solv Wht Film	Pantone	2012-02-15	Live	Wht Film
Flexibles Gravure Solv Rev/Clr Film Lam Clr Film L	Pantone	2013-02-18	Live	Rev/Clr Film
•				Þ
Show expired also				
🐼 x rite	Close	Details		Select

4. A dialog will display to let you know that the palette is ready for use. You can close the window, or leave it open if you need it again.





## Selecting colors from a library (CxF, MIF, XTF, ColorCert Library, PantoneLIVE):

In the next chapter we will explain how to set up a Profile in ColorCert. On several places you will have the possibility to load colors from a digital library into your profile. This can be from external sources like a CxF, MIF, XTF files or a ColorCert Library that you can navigate to and open or it can be from the preselected PantoneLIVE palette:

Load from ColorCert Library... Load from CxF Library... Load from MIF Library... Load from XTF Library... Load from PantoneLIVE™...

Once you have loaded a library from any of the external sources you are able to select a color from the Sample Selector Window like below. You can search after parts of the Color Name or you can use the drop down menus to filter the results. Click on More Options and you will see a lever that helps you to scroll to the relevant color shade or you can select Show Only Gray Shades.

CXF Sample Selector]						
		2	Search:			
				-		
				•		,
				•		
More Options						
Show Gray Shades	,	-0			Show All	
Name	Filter	Device Model	Device SN#	Observer	Illumination	Substrate
PANTONE 802 C	[M0] No Filter	SpectroEye		TwoDegree	D50	Substrate 4
PANTONE 2404 C	[M0] No Filter	SpectroEye		TwoDegree	D50	Substrate
PANTONE 2408 C	[M0] No Filter	SpectroEye		TwoDegree	D50	Substrate
PANTONE 2409 C	[M0] No Filter	SpectroEye		TwoDegree	D50	Substrate
PANTONE 2410 C	[M0] No Filter	SpectroEye		TwoDegree	D50	Substrate
PANTONE 5615 C	[M0] No Filter	SpectroEye		TwoDegree	D50	Substrate
PANTONE 350 C	[M0] No Filter	SpectroEye		TwoDegree	D50	Substrate
PANTONE 2254 C	[M0] No Filter	SpectroEye		TwoDegree	D50	Substrate
	IMOLNIA Eiltar	ChartraEva		TwoDegree	DEO	Cubetesta
3 colors						



## **Creating Standards**

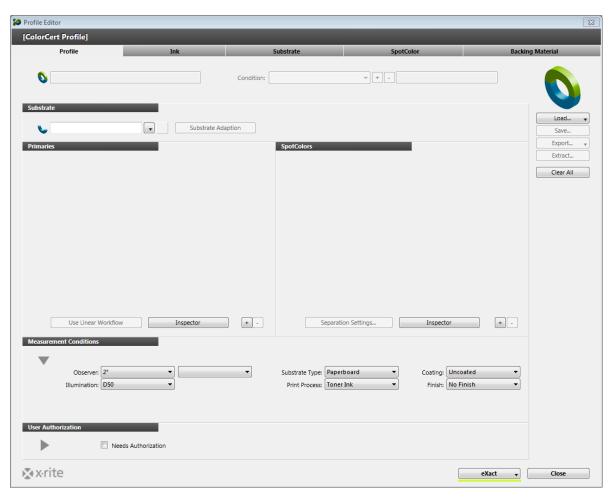
Before you can create a Profile, you need to have color standards. This section will guide you through the steps to measure your standards in ColorCert.

If you have Standards available, for example in CxF or MIF format, or if you are working with data from palettes in PantoneLIVE, you can continue with Building a Profile.

1. From the Chooser, click on Editors, and select Profile Editor.

[Chooser]		_	
Act As Client			Editors 🔻
			Job, Application, Mediastrip
	Ī	6	Profile Editor Rules Editor
Pressroom Tools	Proofing Tools	Inkroom Tools	ColorCert® Library Editor
•	-		•

 The first tab displays an empty Profile. The other tabs are for creating standards for Inks, Substrates, SpotColors that will be used in Profiles, and Backing Materials that will be used in Rules. These colors must be created locally in these tabs. As we go through these standards we will start on the right tab, and work our way left.





## **Backing Material Tab**

When measuring with a Substrate that is not opaque, the backing material will greatly influence the color readings. In some cases the Brand Owner will specify a backing material to be used. In others, you will need to provide this information. In many cases this will be a specified white backer as defined by ISO 13655. Munsell produces an ISO WHITE BACKING SHEET, part number ISO-N925/M12, for this purpose. Contact your X-Rite dealer for more information.

Profile Editor					
[ColorCert Backing M	laterial]				
Profile	Ink	Substrate	SpotColor	Backing	) Material
Color Values CIELab:	Averaging				Load v Save Export v
Measurement Conditions	[M0] No Filter 🔻				
Observer:	2° ▼ [M0] No	Filter Substrate Type: Pape	r  Coating:		
Illumination:					
Details Name: 🍆	Kolor Basics Backing Material	Comment:			
Type: Feature: Vendor: Handling:					
	Date: Tuesday, F Structure: Based on	ColorCert® 2.0.0 Build 323 ebruary 11, 2014   15:41 spectral measurements (variable)   [M0] No Filter		4 III +	
k vite				eXact 🔻	Close

- 1. To measure a backing material, select the Backing Material tab.
- 2. Take a measurement with your spectrophotometer and the values will show up under Color Values. If your instrument supports different measurement conditions, you should select the condition that you are using for your production measurements.
- 3. While the backing should be uniform in color, you can use the Averaging button to trigger multiple measurements for an averaged value, then use the up and down arrows to select the number of measurements to average.
- 4. Take the required number of measurement for your averaged reading.
- 5. Under Measurement Conditions, check the Observer Angle and the Illumination that will be used in production.
- 6. Optional: Select the appropriate Substrate Type and Coating that will be used.
- 7. In the Details section, you must add the Name of your backer and any other Comments or information that you require.
- 8. Use the Save button to store this standard for future use in Rules.
- 9. Once the backing has been saved, you can create additional backings following the same steps.



In ColorCert, a SpotColor represents any important Brand Color in the Job, no matter how it is produced. This is a single value of a color that will be used in the Job, such a product package that contains a Brand Logo color. The Brand Owner may only be concerned with the specific color value of this Brand Logo, not whether it is produced with a solid PANTONE Color, or a tint of a PANTONE Color, or Process Colors. It is important is that the printed Logo Color is correct. These SpotColors may also represent build colors, such as red, green, and blue overprints or gray balance patches.

Profile Editor				
[ColorCert SpotColor]				
Profile	Ink	Substrate	SpotColor	Backing Material
Color Values		_		Load •
CIELab:	70.05 25.13 70.92 OK Enter Value Manually Averaging	A		Save Export •
Conditions	M0] No Filter	▼ Substrate Type:	▼ Coating:	Convert CxF
Illumination: D		Print Process:	<ul> <li>Coaling:</li> <li>Finish:</li> </ul>	• •
Details Name: 🕎 C	cool Copper Com	nent		
		nent:		
I. I	Date: 2015-06-26   11: Structure: Based on spect	ENT   ColorCert® 2.6.0 Build 374 48:38 ral measurements (variable)   [M0] No Filter		
<b>∑</b> x•rite				eXact T Close

#### Measure SpotColors

- 1. Under the Color Values, if your instrument supports different measurement conditions, you should select the condition that you are using for your production measurements.
- 2. While the physical standard may look uniform in color, you can get better results if you use the Averaging button to trigger multiple measurements for an averaged value, then use the up and down arrows to select the number of measurements to average. Three is recommended.
- 3. Take the required number of measurement for your averaged reading.

Color Values	Load 🔻
CIELab: 70.50 24.60 73.00 OK	Save
Enter Value Manually	Export 🗸
Averaging Averaging 3/3 [M0] No Filter	Convert MIF Convert CxF



#### Adjustment of Measured SpotColor

If your measured color is intended to match a standard color and is very close, you can enter adjustments to the color. This will still provide spectral data, but the software will calculate an adjusted theoretical curve. This should only be used for small adjustments in the L\*a\*b\* values because it is not as accurate as spectral data.

		Color Values						
1.	In the Color Values section, click this button:		CIELab:	44.45	57.27	50.33	ок	М

- 2. Key in the specified L\*a\*b\* values.
- 3. The software will calculate a curve and display a green checkmark. If the values are very different, the calculation will fail to provide a good curve, and the software will display a red exclamation mark.

[Spectral Color Adjustment]	
Color     O     Density	
CIELab	
Origin 44.45 57.27 50.33	$\sim$
Adjustment	
44.45 57.27 50.33	
2°   D50   ∆E00 (1:1:1) = 0.00	Apply



#### Manual Entry of SpotColors

Colors can also be entered in the form of L\*a\*b\* values. This option does not provide any of the benefits of spectral data.

- 1. Check the box next to Enter Value Manually.
- 2. Key in the values exactly as they are specified by the Brand Owner.

#### **Saving Colors**

Before you save the SpotColors for use in your Profiles, you will need to provide some additional information.

- 1. Under Measurement Conditions, check the Observer Angle and the Illumination that will be used in production.
- 2. Optional: Select the appropriate Substrate Type, Print Process, Coating, and the Finish that will be used.
- 3. In the Details section, add the Name of the SpotColor and any other Comments that you require.
- 4. Use the Save button to store this SpotColor standard for future use in Profiles.
- 5. Once your SpotColor has been saved, you can create additional SpotColors if desired.

ions							
Observer: 2° Key: D50	•	[M0] No Filter	<ul> <li>Substrate Type:</li> <li>Print Process:</li> </ul>	Paper • Offset Lithography •	-	Semi Matte coated	• •
		Connect					
Name: 🔊 Newo	o Red	Comment:					
	tor:	X-Rite	) 2.0.0 Guild 323				•
Name: 🖘 Newc Creat Date:	:or:	X-Rite X-Rite M6   ColorCert® 2014-02-11   15:39:52					• III
Name: 🦘 Newo Creat	:or:	X-Rite X-Rite M6   ColorCert® 2014-02-11   15:39:52 Based on spectral mea	2 2.0.0 Build 323 surements (variable)   [M0] No	Filter			
Name: 🖘 Newc Creat Date:	:or:	X-Rite X-Rite M6   ColorCert® 2014-02-11   15:39:52 Based on spectral mea	surements (variable)   [M0] No	Filter			E



### Substrate Tab

The importance of the Substrate Color should not be overlooked. Some say that the Substrate is the fifth color of 4-Color Process Printing, while others call it the first color of printing! The color of the Substrate has an impact on all colors, even solid 100% coverage areas. Most ink is not completely opaque, so the paper color is always affecting the final printed color. Each Substrate sample can vary, in fact on each sample there can be significant variation across the sample.

[ColorCert Substrate]					
Profile	Ink	Substrate	SpotColor	Backing	Material
Color Values CIELab:	91.98 0.89 -3.48 OK Averaging v Reading 3/3 [M0] No Filter v				Load • Save Export •
Conditions Observer: Key:	2°   [M0] No Filter  50	v Substrate Type: Pap	er ▼ Coating: Ma	tte coated 🔹	
Details Name: 🍆	White Matte Paper Com	ment			
	Date: 2014-05-28   10 Structure: Based on spec	olorCert® 2.5.0 Build 339 152:50 tral measurements (variable)   [M0] No Filter		4 III +	
🔊 x rite				eXact 🔻	Close

#### Measure Substrates

- 1. Under the Color Values, if your instrument supports different measurement conditions, you should select the condition that you are using for your production measurements.
- 2. While the Substrate sample may look uniform in color, you can get better results if you use the Averaging button to trigger multiple measurements for an averaged value, then use the up and down arrows to select the number of measurements to average (three is recommended).



3. Take the required number of measurement for your averaged reading.

Color Values		
CIELab:	94.17 0.95 4.25 OK	
	Averaging Areading 3/3	
	[M0] No Filter 🔻	

#### Adjustment of Measured Substrate Color

If your Substrate is intended to match a standard paper color and is very close, you can key in adjustments to the color. This will still provide spectral data, but the software will calculate an adjusted theoretical curve.

1. In the Color Values section to the right of the CIELab values, click this button:

Color Values	-				
CIELab:	94.17	0.95	-4.25	ОК	M

- 2. Key in the specified Substrate values.
- 3. The software will calculate a curve and display a green checkmark. If the values are very different, the calculation will fail to provide a good curve, and the software will display a red exclamation mark.

[Spectral Color Adjustment]	
Olor Opensity	
CIELab           Origin           94.17         0.95           -4.25	
Adjustment	
94.17 0.95 -4.25	
2°   D50   ΔΕ00 (1:1:1) = 0.01	Apply
k x∙rite	Сапсеі ОК



#### Saving Substrates

Before you save the Substrates for use in your Profiles, you will need to provide some additional information.

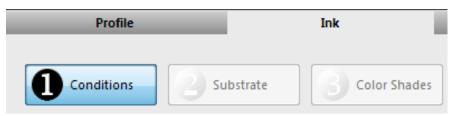
- 1. Under Measurement Conditions, check the Observer Angle and the Illumination that will be used in production.
- 2. Optional: Select the appropriate Substrate Type and Coating that will be used.
- 3. In the Details section, you must add a Name of your Substrate, and any other Comments that you require.
- 4. Use the Save button to store this Substrate standard for future use in Profiles.
- 5. Once your Substrate has been saved, you can create additional Substrates if desired.

Observer	2°	<ul> <li>[M0] No</li> </ul>	Filter 👻	Substrate Type: Paper	r 🔻	Coating:	. <b>.</b>	
Key	D50	•						
sile								
sils								
	Newco Paper	_	Comment:					
	Newco Paper Creator:	X-Rite					~	
	Creator:	X-Rite M	6   ColorCert® 2.0.0 B	uild 323			Ē	
	Creator: Date:	X-Rite M 2014-02-	6   ColorCert® 2.0.0 B 11   15:36:49					
	Creator:	X-Rite M 2014-02- Based or	6   ColorCert® 2.0.0 B 11   15:36:49	nts (variable)   [M0] No Filter			- T	
	Creator: Date:	X-Rite M 2014-02- Based or	6   ColorCert® 2.0.0 B 11   15:36:49 n spectral measuremer	nts (variable)   [M0] No Filter				

#### Ink Tab

A ColorCert Ink includes tint values and may or may not be included in process builds of color in the Job. This is different than a ColorCert SpotColor that only represents one color value. Therefore, you will need to provide more information for an ink. Inks include the solid color and the tint percentage values. These colors can be Process Colors of cyan, magenta, yellow and black. If you also want to check the tints of your SpotColor, you should create it as a ColorCert Ink instead of a ColorCert SpotColor. It is assumed that you have calibrated your printing plates, and that you have good press samples to measure for each of the 25%, 50%, and 75% tint values of each of your colors.

Inks are created in three steps: Define conditions, select the Substrate, and then provide the color shades. These steps are represented by the buttons near the top of the ink window.





#### Step 1: Conditions

On the first step, you will need to provide some information about your ink.

- 1. Under Measurement Conditions, check the Observer Angle and the Illumination that will be used in production.
- 2. Optional: Select the appropriate Substrate Type, Print Process, Coating, and the Finish that will be used.
- 3. Click Next to go to the next step.

Conditions					
Observer: 2°	•	Substrate Type:	Paper	Coating:	Matte coated 👻
Key: D50	▼	Print Process:	Offset Lithography	<ul> <li>Finish:</li> </ul>	No Finish 👻
					Next

#### Step 2: Substrate

- 1. Click on the down arrow button to the right of the Substrate name field.
  - If you want to Load a Substrate from a standard that you have created, the software will take you to the default location for storing your Substrate files. Select your Substrate and click Open.
    - If you wish to Load from ColorCert Library, see the "Load Substrate from Local Libraries" instructions in the "Substrate Tab" section.
  - If you would like to Load a Substrate from PantoneLIVE, see the "Load Substrates from the PantoneLIVE Cloud Database" instructions in the "Substrate Tab" section.

Substrate	
Substrate: 🍆	[M0] No Filter \$
	Load Substrate Load from ColorCert Library Load Substrate from PantoneLIVE™

2. After you select your Substrate Color, the software will automatically advance to the next section.



#### Step 3: Color Shades

Inks include the solid color and the tint percentage values. There are two different ways to capture the Color Shades for an Ink.

#### Plate Curve Modes

#### Linear Mode:

This process assumes you don't have a plate curve for your SpotColor yet and you want to capture the behavior of the color shades from full tone to the substrate. At the end of the process you'll have captured the ideal visually equal distant 75%, 50% and 25% tints as spectral data. This can be captured from a drawdown with a vignette or a color bar with some screen patches. As you take measurements of the sample, the software will alert you if the tint percentage value is too high or too low and will not proceed unless you measure a value that helps to interpolate the correct required shade.

- 1. Measure the Solid.
- 2. For the Shadows measure a Tint close to a visual 75% shade. As you measure you will see a colored arrow pointing up or down to indicate that the visually correct 75% shade is darker or lighter.
- 3. Measure as indicated a tint level higher or lower to allow the Software to interpolate the correct shade.
- 4. Repeat this with the Midtones and Highlights.
- 5. In the Details section add a Name of your Ink and any other Comments that you require.
- 6. Click Save. This will prompt you with the name of the file and the default location to save it. Click Save again.

Conditions		Substrate		Color Shades	
Color Shades	-	-			
Solid Ink CIELab:	52.48	-33.32	-53.34	📕 🌒 🔊	
Shadows CIELab:	62.05	-24.08	-41.36	<b>O</b>	- 75%
Midtones CIELab:	72.17	-15.94	-29.29	<b>I</b>	- 50%
Highlights CIELab:	82.20	-7.58	-16.78		L
ſ	Remeasur				- 25%
l	Nemeasur	•			
					0
					- Tolerance +
?	Non Line	ear Mode (N	L)   Preserve Do	ot Gain	



#### Non-Linear Mode | Preserve Dot Gain:

This process allows you to capture a specific dot gain that you want to replicate on press. This should be captured from an approved fingerprint or print sample with screen values for 75%, 50%, 25%.

- 1. Put a check in the box marked Non-Linear Mode (NL). This will preserve the dot gain values of the patches and use them as your target values.
- 2. If you would like to average your measurements from multiple press sheets, click on the Averaging button, and select the number of readings you would like to average.
- 3. Measure the Solid and Tints in order that they appear on screen. If you are averaging, you will be prompted to take the selected number of readings.
- 4. Your measured print dot gain values will be displayed to the left of the color preview. This is using the dot gain calculation method that is listed under Show Dot Gain As. You have three choices:
  - Murray Davies: Dot Gain based on density, typically used for CMYK and predefined target dot gain values like ISO or G7. Not recommended for SpotColors.
  - Relative Colorimetric: Dot Gain based on the spectral data with the target to have visually equally stepped shades.
  - ColorCert Relative Colorimetric: based on Relative Colorimetric but with a further improved calculation. If you have 0.0% Dot Gain shown as ColorCert Relative Colorimetric you have the same result as the linear Mode and visually ideally stepped shades.
- 5. In the Details section add a Name of your Ink and any other Comments that you require.
- 6. Click Save.

Conditions		Substrate		8	Color Shades					
Color Shades	_	-								
Solid Ink CIELab:	53.77	-34.12	-54.59		٨ 📀 🕨					
75% CIELab:	62.31	-25.83	-43.70	<b>V</b>	- 	Dot Gain:	14.3%	- 75%		
50% CIELab:	74.98	-15.58	-28.61	<b>v</b>	<u></u>	Dot Gain:	13.9%	- 50%	Γ	
25% CIELab:	85.01	-7.04	-15.96		M 📀	Dot Gain:	9.6%			
	Clear All	Ave	raging	* *				- 25%		
Show Dot Gain As:	Murray Dav	/ies	•							
Filter Mode:	Auto		•							
?	🔽 Non Line	ar Mode (N	L)   Preserv	e Dot G	Sain					



## **Creating a Profile**

To build your Profile, select the Profile tab. A Profile can be built directly from data in palettes in the PantoneLIVE cloud, or from the standards that you create locally, as described in the previous section "Creating Standards." As you can see in the screen below, a Profile is made up of standards for Substrate, Primaries and SpotColors, as well as the measurement and print conditions.

🞾 Profile Editor					
[ColorCert Profile]					
Profile	Ink		Substrate	SpotColor	Backing Material
Color Basics Job Profile		]			0
Substrate	Sut	strate Adaption			Save
Primaries           1         Color Basics Black           2         Color Basics Cyan           3         Color Basics Magenta           4         Color Basics Yellow			SpotColors           1         Color Basics Green           2         Color Basics Orange	• <b>5</b> H =	Extract       Extract       Clear All
Use Linear Workflow	Inspecto	r +-	Separation Setti	ngs Inspector	+.
Measurement Conditions Observer: 2*	•		Offset Lithog		tte coated 🔹
User Authorization	is Authorization				
x∙rite					eXact The Close

#### Substrate

When you click on the button next to the Substrate name field, you will have three options:

- 1. Select a Substrate Color that you created and saved in ColorCert.
- 2. Select a ColorCert library that has a Substrate Color, and navigate to the library file.
- 3. Select a PantoneLIVE palette to retrieve the Substrate Color.

The different ways are described in the section Loading Files into ColorCert.



#### Primaries

Primaries are the colors in your production that will be printed with tints. These may be used in Process Color Solid Colors, or simply in Single-Color Tints and Gradients. You can load colors from several sources.

- To set the number of primaries, click the + button near the blank list of Primaries. Each click will add a field to add a primary ink in this Job.
- To remove a color from the list, use the button.
- For each Primary in the list, click on the button to the right of the Primary name field to see the list of options for loading a Primary Ink.

prCert Profile]	Tota .	Cubuluda	Const Calan	Paulting Maturiat
Profile	Ink	Substrate	SpotColor	Backing Material
Color Basics Job Profile	Conc	dition: <b>1. untitled</b>	• • untitled	ОК
Color Basics Paper	Substrate Adaption	SpotColors		Load Save Expor
Color Basics Black	Load Ink (default) Load SpotColor Load from ColorCert Library Load from CxF Library Load from MIF Library Load from MIF Library			Extrac
Use Linear Workflow	Inspector Insert Remove Move up Move down Load from PantoneLIVE™	Separation	n Settings Inspector	
Observer: 2* Illumination: D50	[M0] No Filter	Dot Gain Method: ColorCe Substrate Type: Paper Print Process: Offset	Coating: Matte	
r Authorization				
Needs Aut	horization			

#### Load SpotColors and Inks

The different ways of loading color files are described in the section Loading Files into ColorCert.



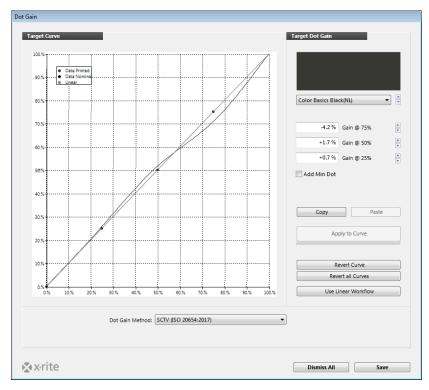
#### **Other Primary Settings**

Tolerances for the Black, Cyan, Magenta, and Yellow primary colors are defined in the ColorCert rules. Other primary colors (or CMYK colors in jobs created with ColorCert prior to version 3.0) will have tolerances defined by their priority. Next to the ink colors are drop down lists for Priority (H, M, or L). This setting links these colors to the tolerances defined in the Rules identified as high, medium, or low importance.

- For critical colors that must be have the highest importance, you will assign a high priority (H). This has a lower ΔE tolerance number in your Rule. Colors with a medium level (M) of importance will get a higher ΔE number. The lowest priority (L) colors will receive the highest ΔE number.
- In some cases these numbers may come from a print standard, but other times it is a value negotiated between Print Supplier and the Brand Owner.
- You will want to make note of the tolerance values assigned to L, M and H for use in your Profiles that will be used with this set of Rules.

Next to the Priority, you can amend the Dot Gain curves. You can also change the Dot Gain Method here.

- Murray Davies: Dot Gain based on density, typically used for CMYK and predefined target dot gain values like ISO or G7. Not recommended for SpotColors.
- Relative Colorimetric: Dot Gain based on the spectral data with the target to have visually equally stepped shades.
- ColorCert Relative Colorimetric: based on Relative Colorimetric but with a further improved calculation. If you have 0.0% Dot Gain shown as ColorCert Relative Colorimetric you target to have visually ideally stepped shades.
- SCTV (ISO 20654:2017): ISO defined standard for SpotColor tint measurement. This is the preferred method for non CMYK colors.



Further icons refer to a secondary lighting condition [2LC], Combo Plate Support [M], and Metallic Ink. These will be discussed in the Rules Section.



SpotColors can be added exactly as you added Substrates and Inks: use the + button to add a field, and the – button to remove one. The difference is that these colors will not include a range of tints and a solid. They can only have one value. Any colors loaded that have tints and solids will only be used as a solid.

ColorCert 3.0 adds several options to define SpotColors:

- As a true SpotColors, a special color printed on press with a unique ink formulation.
- A SpotColors as a build of two or more process colors.
- As an overprint patch (Magenta/Cyan, Yellow/Cyan, or Yellow/Magenta)
- A gray balance patch
- Cyan, Magenta, Yellow, and Black may also be defined as SpotColors. In this case only the solid (no tint values) will be measured and evaluated.

SpotColo	ors	-		
1 🦘	Color Basics Green		S₹	⊫ □ ☆ □ 🕅
2 🦘	Color Basics Orange	-	S.	₩ 🗆 🌣 🗆 💥
з 🦘	Red	-	0,	🖄 🖉 💥 🖉 📕
4 🦘	Green	-	0,	🗆 🌣 🔽 💥 🖉 📕
5 🦘	Blue	-	0,	🗏 🗵 🔅 🔽 🔅 🗔
6 🦘	Gray Balance HC	-		Cyan
7 🦘	Gray Balance HR	-		Magenta
8 🦘	Gray Balance SC	-		Yellow
9 🦘	Gray Balance Solid			Black
				Spot
			<ul><li>✓</li></ul>	Overprint
				Gray Balance HC
				Gray Balance HR
	Separation Settings			Gray Balance SC
				Gray Balance Solid

#### **Measurement Conditions**

- 1. Under Measurement Conditions, select the Observer Angle and the Illuminant Observer that will be used in production.
- 2. Select the appropriate Substrate type, Print Process, Coating, and Finish that will be used. These settings will be used in reports and Scorecards and they will help when setting up Rules.
- 3. Use the Save button to store this Profile for future use in Jobs.

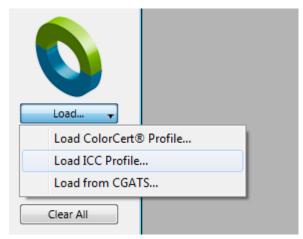
You can also load existing Profiles using the Load button to edit them and save them with new names as needed, such as adding SpotColors or primaries. Once your Profile is finished click Close.



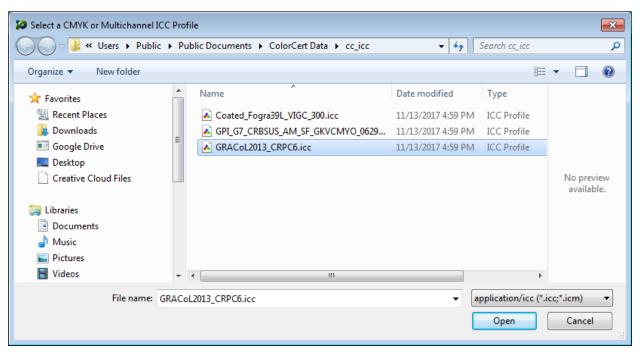
## Loading a profile from ICC or CGATS

Instead of creating a profile from scratch, you can use ICC Profiles or IT8/CGATS files as a base for your Profile. Loading an ICC Profile or an IT8 Standard/CGATS file:

1. After opening the Profile Editor, click on Load and select Load ICC Profile.



2. Browse to the folder containing your ICC Profile, select the profile and click Open.





3. The ColorCert Profile Editor automatically populates with the selected profile data. The screenshot below shows dot gain curves for the primaries that are loaded as well as overprints and gray balance patches in addition to the Cyan, Magenta, Yellow and Black primary solids. Unnecessary overprint or gray balance patches can easily be deleted. This functionality was added as part of our G7 improvements for release 3.0.

Profile Editor [ColorCert Profile]				
Profile	Ink	Substrate	SpotColor	Backing Material
GRACol2013_CRPC6				0
Substrate	T Substrate	Adaption		Save
Primaries         1       Cyan         2       Magenta         3       Yellow         4       Black         Use Linear Workflow         Weasurement Conditions         2*	v Cv / v Vv / v Vv / v Kv /	SpotColors         Red         Green         Grey Blue         Gray Balance HC         Gray Balance Solid         Gray Balance Solid         Frage Balance Solid         Hold Science Solid	v     0a     \$\$       v     0a     \$\$	Extract Extract Clear All Clear All Clear All Clear All + -
User Authorization	s Authorization			
rite				eXact T

## **Creating Rules**

Rules define tolerances for production. In this section we will look at how to create a set of Rules. Launch the Rules Editor from the Editor menu. Let's look at what is found behind each of the tabs.

	Editors 🗸
	Job, Application, Mediastrip CombiJob
	Profile Editor Rules Editor
ls	ColorCert® Library Editor



#### Substrate Tab

The Substrate tab is selected by default.

- 1. Type in a meaningful name so that operators will be able to recognize the purpose of this set of Rules.
- 2. In the upper right corner, Patches on Mediastrip will show a preview of the patches that will be produced for a Job using this set of Rules. This will change dynamically as you select patch options in the Rules.

🞾 Rules Editor								X
[Rules Edito	r - Substrate]							_
Substrate	Primaries	SpotColors	Gray Balance CMY	Gray Balance K	Dot Gain	Settings 1 Setting	s 2 Settings 3	Settings 4
i) 🗳 Colo	r Basics Job Rules	Method of	ColorCert® Star	ndard 👻		Patches on Mediastrip: 0 5	25 50 75 100 •	
Substrate	Include in Scoring	_	-					Load Save Clear All
ΔΕ	ance: 0		•		•		•	
V Sut	strate is obligatory Rec	quirement (requires !	Substrate in CC Profile).					

- 3. A substrate is required for any job that contains measurements of tint values or to use the Best Match function. Uncheck Substrate is obligatory requirement if you do not want to measure the substrate. Uncheck Include in Scoring if you want to include the substrate measurement for analysis, but exclude it from ColorCert scores.
- You can define up to three different tolerances for a substrate. The default tolerance in the first of the three sections is ΔE. Select your desired tolerance type from the drop-down list. Next, enter a limit in the field Tolerance. The example below uses a tolerance value of 2.75.
- 5. Add additional tolerances if necessary. The example below uses a Whiteness and an Opacity tolerance in addition.

🞾 Rules Editor									×	
[Rules Edito	r - Substrate]									
Substrate	Primaries	SpotColors	Gray Balance CMY	Gray Balance K	Dot Gain	Settings 1	Settings 2	Settings 3	Settings 4	
(j) 🗳 🚺	r Basics Job Rules	Method of A	ColorCert® Star	ndard 🔹		Patches on Media	astrip: 0 5 25	50 75 100 •		
Substrate	Substrate								Load Save Clear All	
3	Include in Scoring	1	📝 Includ	e in Scoring	V Include in Scoring					
ΔΕ			▼ △ CIE Whiteness		▼ Δ Op	acity %		•		
Toler	ance: 2.75		Tolerance:	± 3.00			6.00 % 3.00 %			
<table-cell> Sub</table-cell>	strate is obligatory R	equirement (requires S	ubstrate in CC Profile).							



### Primaries Tab

1. Select the Primaries Tab to define tolerances for your primary colors etc.

🞾 Rules Editor		<b>—</b>
[Rules Editor - Primaries]		
Substrate Primaries	SpotColors         Gray Balance CMY         Gray Balance K         Dot Gain         Settings 1         Settings 2         Settings 3	Settings 4
(i) 🔹 Color Basics Job Rules	ColorCert® Standard     Patches on Mediastrip:     0     5     25     50     75     100     •       Method of Analysis:     Default Mode     •	
Primaries ✓ Include in Scorin ΔE	ng V	Load Save Clear All
Cyan Tolerance: 0		
Magenta Tolerance: 0		
Yellow Tolerance: 0		
Black Tolerance: 0		
Other Primary High 0		
Medium 0 Low 0		
x•rite		Close

- 2. Primaries are the colors in your production that are printed with tints. Cyan, Magenta, Yellow, and Black are special case primary colors and each may be assigned their own tolerance.
- 3. Other primary colors can be SpotColors printed in solids and tints or Orange, Green, and Violet used in an ECG workflow. You can find related information in the section Dot Gain. You can assign three different tolerance levels (high, medium, or low importance) to those primaries. These levels of importance can be assigned to individual colors in your profile.
  - For critical colors that must have the highest importance, you will assign a lower ΔE tolerance number. Colors with a medium level of importance will get a higher number. The lowest Priority Colors will receive the highest ΔE number.
  - In some cases these numbers may come from a print standard, in other cases it is a value negotiated between Print Supplier and the Brand Owner.

The example below uses both a  $\Delta E$  2000 tolerance with a ratio of 1:1:1 (left hand column). This tolerance is included in the ColorCert Scoring. The 4 process colors each have their own tolerance level while the other primaries are assigned High, Medium, and Low limits.

The defined tolerances for density are not included in the scoring. The center column shows the density tolerances and the right column is empty. It is not necessary to use three or even two tolerances. In most cases, just a single tolerance is required.

Image: Color Basics Job Rules     Primaries     Include in Scoring     Include in Scoring     Include in Scoring     Image: Image	Substrate Prima	ries SpotColors	Gray Balance CMY	Gray Balance K	Dot Gain	Settings 1	Settings 2 Setti	ngs 3 S
Primaries       Include in Scoring $\Delta E00$ 1       1 $\Delta Density$ $\Delta E00$ 1       1 $\Delta Density$ $\checkmark$ $\nabla yan$ $\checkmark$ $\checkmark$ $\checkmark$ Tolerance:       3.50       Tolerance: $\pm 5.00$ Magenta $\bullet$ $\bullet$ $\bullet$ Tolerance:       3.50       Tolerance: $\pm 5.00$ Vellow $\bullet$ $\bullet$ $\bullet$ Tolerance:       3.50       Tolerance: $\pm 5.00$ Black $\bullet$ $\bullet$ $\bullet$ Tolerance:       5.00       Tolerance: $\pm 5.00$ Other Primary $High$ $\pm 3.00$ $High$ $\pm 3.00$ Heigh       2.00 $Medium$ $\pm 3.75$	(i) 💲 Color Basics Job	Rules	ColorCert® Star	ndard 🔻		Patches on Mediastrip:	0 5 25 50 75 10	• 00
Include in Scoring $\Delta E00$ $\Delta E00$ I           I <th></th> <th>Method of A</th> <th>nalysis: Default Mode</th> <th>•</th> <th></th> <th></th> <th></th> <th></th>		Method of A	nalysis: Default Mode	•				
CyanTolerance: $3.50$ Tolerance: $\pm 5.00$ MagentaTolerance: $3.50$ Tolerance: $\pm 5.00$ VellowTolerance: $3.50$ Tolerance: $\pm 5.00$ BlackTolerance: $5.00$ Tolerance: $\pm 5.00$ Other PrimaryHigh $2.00$ High $\pm 3.00$ Medium $2.75$ Medium $\pm 3.75$		Scoring	Include	e in Scoring				
Tolerance: $3.50$ Tolerance: $\pm 5.00$ Magenta Tolerance: $3.50$ Tolerance: $\pm 5.00$ Vellow Tolerance: $3.50$ Tolerance: $\pm 5.00$ Black Tolerance: $5.00$ Tolerance: $\pm 5.00$ Other Primary High $2.00$ MediumHigh $\pm 3.00$ $\pm 3.75$	ΔΕ00	✓ 1 1 1	△ Density		▼		•	
MagentaTolerance: $3.50$ YellowTolerance: $3.50$ Tolerance: $5.00$ BlackTolerance: $5.00$ Other PrimaryHigh $2.00$ Medium $2.75$ Medium $\pm 3.75$		3.50	Tolerancer	+ 5.00				
Tolerance: $3.50$ Tolerance: $\pm 5.00$ VellowTolerance: $\pm 5.00$ BlackTolerance: $\pm 5.00$ DiscussionTolerance: $\pm 5.00$ Other PrimaryHigh $2.00$ High $2.00$ High $\pm 3.00$ Medium $2.75$ Medium $\pm 3.75$		5.50	Tolerance.	2 5/60				
Tolerance:         3.50         Tolerance:         ± 5.00           Black         Tolerance:         ± 5.00         Tolerance:         ± 5.00           Other Primary         High         2.00         High         ± 3.00           Medium         2.75         Medium         ± 3.75		3.50	Tolerance:	± 5.00				
Tolerance:         3.50         Tolerance:         ± 5.00           Black         Tolerance:         ± 5.00         Tolerance:         ± 5.00           Other Primary         High         2.00         High         ± 3.00           Medium         2.75         Medium         ± 3.75	Yellow	_						
Tolerance:         5.00         Tolerance:         ± 5.00           Other Primary         High         2.00         High         ± 3.00           Medium         2.75         Medium         ± 3.75	Tolerance:	3.50	Tolerance:	± 5.00				
Other Primary         Image: Constraint of the state of the stat	Black							
High         2.00         High         ± 3.00           Medium         2.75         Medium         ± 3.75	Tolerance:	5.00	Tolerance:	± 5.00				
Medium         2.75         Medium         ± 3.75	Other Primary							
			-					



## SpotColors Tab

The SpotColor tab is used to define tolerances for all SpotColors; those special inks for which we will not measure any tints, special build colors that are critical for our customers, as well as overprints and gray balance patches used as part of a G7 workflow.

🞾 Rules Editor									
[Rules Editor -	SpotColors]								
Substrate	Primaries	SpotColors	Gray Balance CMY	Gray Balance K	Dot Gain	Settings 1	Settings 2	Settings 3	Settings 4
🧴 💲 Color Ba	isics Job Rules	Method of	ColorCert® Sta Analysis: Default Mode	ndard 👻		Patches on Media	sstrip: 0 5 25	50 75 100 •	
SpotColors	clude in Scoring		•		•			•	Load Save Clear All
Hig	ih 0.00								
Mediur									
Lov	N 0.00								
Overprint			•		•			•	

- Assign up to 3 different tolerance types to the SpotColors. For each type, three different levels (high, medium, or low importance) should also be assigned. These levels can be assigned to individual colors in your profile. Enter a lower ΔE tolerance number to critical colors to give them the highest importance. Enter a higher value for colors with a medium level of importance and the highest ΔE value to the color with the lowest priority.
- 2. Tolerances for Overprint Patches are assigned their own tolerances as they are truly a different metric. Overprint patches do not require 3 different tolerance limits, but it is possible to assign them.
- 3. The screenshot below shows SpotColors with three different tolerances: ΔE 2000 in the left column, ΔDensity in the center column, and ΔLCh in the right column. Each of these three tolerance types has three limits for High, Medium, and Low importance. The Density tolerance has been excluded from the scoring (unchecked "Include in Scoring"). The ratio for the ΔE 2000 tolerance was changed from the default 1:1:1 to 1:1:0.5. This provides a tighter tolerance for hue, correlating with settings that were selected for the LCh tolerance.

Substrate	SpotColors] Primaries	SpotColors	Gray Balance CMY	Gray Balance	K Dot Gain	Settings	L Settings 2	Settings 3
Substrate	Primaries	SpotColors	Gray balance CMY	Gray balance	K Dot Gain	i Settings	L Settings 2	Settings 5
🚺 💲 Color I	Basics Job Rules		ColorCert® St	andard	•	Patches on N	lediastrip: 0 5 25	50 75 100 •
		Method o	Analysis: Default Mode		] 🗸			
SpotColors								(
	nclude in Scoring		Inclu	de in Scoring		🔽 Includ	e in Scoring	
∆E00		1 1	0.5 △ Density			∆ LCh		• [
	igh 2.00 um 2.75		High	± 3.00 ± 3.75		High	2.00 1.00 3.00 2.00	
Mediu	um 2.73 pw 3.50		Medium Low	± 4.50		Medium Low	5.00 2.00	
Overprint			_					
∠Ecmc	include in Scoring	• 1	Inclu 1 ∆ Lab	de in Scoring	<b>-</b>			•
Toleran	ce: 3.00		Tolerance:	3.00 1.				
Toleran			Tolefance.		-			



#### Gray Balance CMY Tab

Select the Gray Balance CMY tab to define the tolerance for CMY Gray Balance patches. This is a key component of G7 workflows.

1. Define up to three different tolerance types for this attribute and then define separate limits for Highlight, Midtone, Shadow, and Solid patches. If required, change the ratio for those tolerance types and select if the tolerance should be included in the ColorCert Score.

2 Rules Editor	<b>—</b>
[Rules Editor - Gray Balance CMY]	
Substrate         Primaries         SpotColors         Gray Balance CMY         Gray Balance K         Dot Gain         Settings 1         Settings 2         Settings 3	Settings 4
Color Basics Job Rules     ColorCert® Standard     Patches on Mediastrip: 0 5 25 50 75 100     Method of Analysis: Default Mode	
Gray Balance CMY	Load
☑ Include in Scoring	Save
ΔΕ00 • 1 1 1 • • •	Clear All
Highlight Tolerance: 2.00	
Midtone Tolerance: 2.00	
Shadow Tolerance: 2.00	
Solid	
Tolerance: 2.00	
k xrite	Close



## Gray Balance K Tab

Select the Gray Balance K tab to define the tolerance for the black (K) Gray Balance patches. This is also a key component of G7 workflows.

1. The options are the same as the Gray Balance CMY Tab.

2 Rules Editor	×
[Rules Editor - Gray Balance K]	
Substrate         Primaries         SpotColors         Gray Balance CMY         Gray Balance K         Dot Gain         Settings 1         Settings 2         Settings 3	Settings 4
Color Basics Job Rules     ColorCert® Standard     Patches on Mediastrip: 0 5 25 50 75 100     Method of Analysis: Default Mode	•
Gray Balance K	Load Save Clear All
Tolerance: 2.00 Shadow Tolerance: 2.00 Solid	
Tolerance: 2.00	
k xrite	Close



#### Dot Gain Tab

Select the Dot Gain tab to define all tolerances for the tint patches.

- 1. Define the tolerance for min dot reading (if used) in the left section of the window.
  - Nominal Min Dot is the minimum dot as defined in the digital file used to make the plate.
  - $\circ$   $\,$   $\,$  Min Dot Printed is the minimum dot that can be printed well.
  - $\circ$  Tolerance  $\Delta$ Gain is the % amount of gain that is acceptable in the minimum dot.
  - $\circ$  Tolerance  $\Delta Loss$  is the % amount of loss that is acceptable in the minimum dot.
  - 2. Define Min Dot tolerances for Primaries (CMYK) and Other Primary. Other Primary includes colors that have a Min Dot other than CMYK, for example a SpotColor that contains a vignette).
  - 3. If the "Allow Profile to override Settings" is selected, and you are using a ColorCert Profile that was built using an ICC Profile, then values from the profile override the target value (Min Dot Printed) defined here in the ColorCert Rules. Note that the value from the ICC Profile may be an interpolated value, which depends on the patch set that was used to create the ICC Profile.

<u>MinDot</u>	_
5 %	
5.0 %	Allow Profile to override Settings
0.0 %	-
0.0 %	
5.0 %	Allow Profile to override Settings
0.0 %	
0.0 %	
	5 % 5.0 % 0.0 % 0.0 % 5.0 % 0.0 %

4. In flexographic printing, combo plates are sometimes used to achieve the desired result on press. Select Flexo Combo Plate Support to provide a second set of tolerances for the secondary plate condition as shown below. The second set of tolerances can be entered manually or select Default and define your calculation criteria to automatically calculate them.



Dot Gain								
	MinDot							
Include in Scoring: 🛛 📝								
Nominal Dot Area: 🛛 📝	] 5 %							
Primaries								
Min Dot Printed:	5.0 % 🔲 Allow Profile to override Settings							
[Combo Plate]:	0.0 %							
Tolerance ∆Gain:	3.0 %							
[Combo Plate]:	6.0 %							
Tolerance ΔLoss:	2.0 %							
[Combo Plate]:	4.0 %							
Other Primary								
Min Dot Printed:	5.0 % 🔲 Allow Profile to override Settings							
[Combo Plate]:	0.0 %							
Tolerance ∆Gain:	4.0 %							
[Combo Plate]:	8.0 %							
Tolerance ΔLoss:	3.0 %							
[Combo Plate]:	6.0 %							
V Flexo Con	Flexo Combo Plate Support							
🔽 Default	Added Tolerance: + 100 %							
Method:	Percentage							

- 5. Dot Gain allows for the tolerancing of the dot gain in the highlights, midtones and shadows. In North America this can be 25%, 50% and 75%; or in many cases, just 50%. In Europe this is often 40% and 80%.
  - Put a check in the boxes next to the print tones that you wish to measure. Notice that the number of patches previewed in the upper right will change with the number of Dot Gain values selected.
  - Make sure the values are set to the percentage that you need to measure, and enter a value that you are willing to accept as your dot gain tolerance for those percentage values.
  - The Dot Gain Methods refer to the methods that are used to calculate the dot gain of the print. Murray-Davies is typically used with 4-Color Process Inks (the primary colors) while SCTV (ISO 20654:2017) or the ColorCert Relative Colorimetric is recommended for other primaries.



Include in Scoring: Nominal Dot Area:	Highlight 25 %	Midtone V 50 %	<u>Shadow</u> ▼ ▼ 75 %
Tolerand	ce: ± 0.0 %	± 0.0 % Method: Murray Davies	± 0.0 %
Tolerand	ce: ± 0.0 %	± 0.0 % Method: SCTV (ISO 20654:	± 0.0 %
E Flexo Co	mbo Plate Suppor	t	

- 6. Select Undertone to determine the undertone color independently from the dot gain. This allows ColorCert to measure and judge undertone colors even if the dot gain values are very incorrect.
  - BestMatch Mode: Compare best matching color within whole target tint range.
  - Same Density Mode: Compare color at same target density.
  - Same Lightness Mode: Compare color at same lightness (CIELab L\*).

Same Spot Mode: Compare color at same nominal input (ie: 50% vs. 50%).

Undertones					
Check Undertones	Tolerance:	0.0		Method: 🛛 🗠	•
	Mode: 🖲 Best	Match	Same Density Same Lightness		🔘 Same Spot



7. Example completed Dot Gain section shown below.

🞾 Rules Editor					<b>×</b>
[Rules Editor - Dot Gain]					
Substrate Primaries SpotColors Gray Balance	CMY Gray Balance K	Dot Gain	Settings 1 Setting	s 2 Settings 3	Settings 4
(j) Color Basics Job Rules ColorCer Method of Analysis: Default N	t® Standard  ▼ Node  ▼	P	atches on Mediastrip: 0 5	25 50 75 100 •	
Dot Gain Include in Scoring:  Constant Scoring:  Constant Scoring:  Constant Scoring:  Constant Scoring:  Constant Scoring:  Constant Score Sco	Include in Scorir Nominal Dot An gs Tr		Midtone V 50 % ± 4.0 % Method: Murray Davies	Shadow ♥ ▼ 75 % ± 2.5 % ▼	Load Save Clear All
Other Primary           Min Dot Printed:         Image: Constraint of the second se	gs To	olerance: ± 3.0 %	± 5.0 % Method: SCTV (ISO 20654	± 3.0 %	
Flexo Combo Plate Support	E Fle	xo Combo Plate Supp	ort		
Undertones  Check Undertones  Tolerance:  Mode:  Be	2.5 est Match O Same D	Density 🔘	Method: ΔE00 (1:1:1) Same Lightness ⑦	▼ Same Spot	
i x rite					Close



### Settings 1 Tab

1. Next, click on the Settings 1 tab.

🞾 Rules Editor								×
[Rules Editor - Settings 1]								
Substrate Primaries	SpotColors	Gray Balance CMY	Gray Balance K	Dot Gain	Settings 1	Settings 2	Settings 3	Settings 4
(Î) 💲 Color Basics Job Rules	Method of	ColorCert® Star	ndard 🔹		Patches on Media	strip: 0 5 25	50 75 100 •	
Visual Check-Up	_							Load
Check Visually								Save Clear All
Backing Material								
Check Backing								
G7								

- 2. Visual Check-up allows you to require visual inspections of print quality with each Measurements. The Verify Barcode Quality selection will require that a barcode quality test be performed with a barcode reader.
- 3. Check the Backing Material box if you require the Press Operator or QC inspector to measure the backing with each Mediastrip.
- 4. Select Use Dynamic G7 to dynamically change the target of the gray balance patches based on changes to the substrate.



## Settings 2 Tab

1. Next, click on the Settings 2 tab.

Rules Editor						[2
[Rules Editor - Settings 2]	_	_		_	_	_
Substrate Primaries SpotColors	Gray Balance CMY	Gray Balance K	Dot Gain	Settings 1	Settings 2 Settin	gs 3 Settings 4
(i) 🔹 Color Basics Job Rules	ColorCert® Stand		F	Patches on Mediastrip:	0 5 25 50 75 100	. 🌓 🗉
Method	of Analysis: Default Mode	•				
Density ✓ Show Density		Density Std: Status Filter Mode: Auto	•			Load Save Clear All
Measurements  Use Averaging [Multi Measurement Mode]		White Base: Absol	ute 🔻			
Metamerism						
Scorecard		Method: Colord	Cert® Dynamic ▼	PDF Template:	Carlos a succession of the suc	
0 Scores below require internal	approval		ove PDF Template			
Upload to Scorecard Server	Server URL:					
<b>∑</b> ix∙rite						Close

- 2. Density. Enter the settings for your densitometer configuration, which are determined by your print specifications. For example in North America, the print specifications require Status T, while in Europe the print specifications use Status E.
- 3. Measurements. If your print conditions are not very uniform, then it may be necessary to measure more than one sample and average the results. This is where you enable this and set the number of measurements to average.
- 4. Metamerism. If you would like to evaluate the color under illuminants in addition to the standard D50, you can select the other illuminants here. This is usually something that a Brand Owner would request to ensure, for example, that the product looks correct under daylight (D50) as well as store light.
- Scorecard. Enable the Scorecard to trigger a print of a summary report of the Job. ColorCert includes a PDF Template of this Scorecard. You can manage the use of the Template with the Load and Remove PDF Template buttons. The default Scorecard Template is located in the Application folder.
- If you have access to a Scorecard Server, you can enter the URL and Password in this window to set it up.



## Settings 3 Tab

1. Click on the Settings 3 tab.

🞾 Rules Editor		<b>—</b>
[Rules Editor - Settings 3]		
Substrate Primaries SpotC	olors Gray Balance CMY Gray Balance K Dot Gain Settings 1 Settings 2 Settings 3	Settings 4
(i) 🔹 Color Basics Job Rules	ColorCert® Standard       Patches on Mediastrip:       0       5       25       50       75       100       •         Method of Analysis:       Default Mode       •	
Job Naming Convention Use General Naming Format		Load Save Clear All
Preview of Production Job	view Box within "Job Details")	
Dynamic Target Adjustment <ul> <li>Off</li> <li>○ Sample To Target®   Allow to conv</li> <li>○ Substrate To Target®   Allow to ad</li> </ul>	ert approved Sample to Target just the Target based on available Substrate	
Proofing Tools Add-On   Adjust Proofing Tolerances  Check Visually	Narrow by Percentage: 25% 25% Proofing Tolerance = ΔΕ 1.5 where Press Tolerance = ΔΕ 2.0	
Conditions	Substrate Type: All Coating: All Finish: All All All All All All All All All Al	
v <b>∑</b> •x•rite		Close

- 2. If you want to specify a naming convention based on the job information, you can add a code created out of an existing job. See separate information when creating a job.
- 3. Preview of Production can be enabled to remind you to add a preview of the printed work (any file that contains the preview of your job) in the Job. This can assist in properly associating the correct ColorCert Job with the associated press run.
- 4. You can also use a ColorCert job to check the Proof. If you prefer tighter tolerances when checking the Proof, you don't need to create a new Rule, you can just click Adjust Proofing Tolerance and define a percentage. This percentage is then applied to the tolerance values when checking the Proof.
- 5. Conditions allows the user to limit the use of these Rules to only the selected conditions.



## Settings 4 Tab

1. Finally, click on the Settings 4 tab.

ubstrate	Primaries	SpotColors	Gray Balance Cl	MY Gray Balance	K Dot Gain	Settings 1	Settings 2	Settings 3	Settings 4
) 💲 Color	r Basics Job Rules	Method of	ColorCert@ Analysis: Default M	© Standard ode	•	Patches on Medi	iastrip: 0 5 25	50 75 100 •	۲
ob Setup Wiz	ard w alternative Quality Lew ♥ Offer "Higher Color Deviation △Dot Gain ♥ Offer "Lower ( Color Deviation △Dot Gain	Quality Level"		Narrow by Percentage: Narrow by Percentage: Widen by Percentage: Widen by Percentage:	0	[	0% 0% 0%		Load Save Clear All
				Selected Quality Level:		•		Default	
ob Detail Vali	dation		Optional Fields Customer Business Unit Brand Variety UPC / Spec No Prod Order No Artwork Target	→	Required Fields Name Job No Color Separator Printer				

- 2. Quality Level: These Settings are only required for the Job Setup Wizard. Please find detailed information in the separate Job Setup Wizard document.
- 3. Job Details Validation: Select attributes that are required for a job using this set of rules. Select an item from the list Optional Fields and click the arrow to the right to move it to the List Required Fields. Name, Job No, Color Separator, and Printer are required by default.
- 4. When you are finished, click the Save button to save the Rules, then click Close.



# **Creating a Job**

After a Profile and a set of Rules have been created, they can be used in a Job. This section explains how to create a Job. This is only available when using a Manager license, usually for an administrative user from prepress or quality control.

This is used to create a new Empty Job that has no Data, Rules or Profile. With an Empty Job, you can select a Rule and Profile, or an Application file that contains the Job Profile and Rules. Then you can modify any needed settings and fill in certain details about the client or printing conditions. This user can either start measuring the Job, or save the Job for another user to continue later.

- \_ D \_X 2 ColorCert File Edit Mediastrip© Window Tools Job Selection Mode Repository PantoneLIVE™ Help Self. 2 Job Details Inkroom Tool Press Setup Application [Application] is write protected Application.. • ž needs Authentication Create Mediastrip Profile 0 Þ Profile.. Rules ► 6 Rules. Ŧ Custom Mediastrip Þ Custom Mediastrip... \* 🔉 x•rite Roll MeasureTool eXact • Close
- 1. In the ColorCert Chooser click Editors and select Job, Application, Mediastrip.



Click Job Details, and enter necessary information. You must complete all fields marked with an asterisk (\*).
 Other fields are intended to be used as needed in the Design, Color Separator and Printer sections.

2 ColorCert									X
File Edit Mediast	trip© Window Tools Job Select	tion	Mode Reposito	ry PantoneLIVE™ Help	_				
Job Details Pres	ss Setup		Primaries	Dot Gain		∑ nmary		E C	ferences
[Job Details] Design	_		Color Separator			Printer			
Name:	Jobname	*	Name:	Sample Separator	*	Name:	Sample Printer		*
Job No:	123456	*	Contact:		\$	Contact:			\$
Customer:	Sample Customer								
Business Unit:			Phone:			Phone:			
Brand:			Fax:			Fax:			
Variety:			Email Address:			Email Address:			
UPC / Spec No:			Street:			Street:			
Prod Order No:	20150729		ZIP:			ZIP:			
Artwork Target:			City:			City:			
Orientation:	Surface 🔻		State:			State:			
	<b></b>		Country:			Country:			
Screen Count:									
Screening Type:			Supplier Code:			Supplier Code:			
Lot Size:									
Supply As:	Roll								
Supply As.	Roll Pallet Sample	:	Penorting			Files	_		
Job Preview:			Reporting			Files			
			Destination:			Naming:	Jobname		
Load File Remove			Production Date						
Kenove			Production Date						
			Proof:			Press Run:			
Turito									
🐼 x•rite		R	Roll 🚽 🖣	Proof	Meas	sureTool	eXact 🔻	Close	

3. Optional: Click Naming to define naming Convention.

File Naming			
Job No:	Sample Customer	Pos: 1 v Pos: 3 v Pos: 2 v Pos: - v	<ul> <li>No Date</li> <li>Date As Prefix</li> <li>Date As Suffix</li> </ul>
File Name:	Jobname_Sample_Custor 1,3,2,0,0,0,0,4,0,0,0,		Copy Code for use in Rules

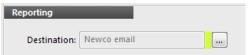


Select the information you want to add to your job name. Use the drop down list with numbers to define the order. Code shows the order of positions and can be entered in the Rules Settings 3 Tab.

 Optional: Click Reporting to open a window to configure how the report should be formatted and sent. Reports can be sent through email or FTP. They can be formatted as a simple Scorecard, a more detailed CC Job Report, or both.

Off Off		
nd what		
Individual Sco	re per Sample	?
O PDF Report		COLORCERT PRIVACY POLICY
Total Score on	Job Completion	
🔿 Job (CCJ)		
ColorCert S	corecard	
ColorCert S	corecard + Job (CCJ)	
tup Setup File:	1	Load
Setup File: To:	j.doe@newco.com	Load Save
Setup File: To: (CC:)	j.doe@newco.com	
Setup File: To: (CC:) (BCC:)	j.doe@newco.com	
Setup File: To: (CC:)	j.doe@newco.com	

• Enter a name for the setup and the appropriate email addresses along with a message if you like.



- Click Apply to save and select this setup in the Job.
- 5. Return to the Applications tab.
  - Load a ColorCert Profile: opens the default folder for stored Profiles that you have created. To load a ColorCert Profile, select Load ColorCert Profile, and select the Profile that has the colors for this Job.

NOTE: You can also load ICC Profiles or IT8/CGATS files as your Profile.

- Load Rules: select the Rules to be used with this Job that you previously created.
- Use the Save Application button to save the combination of the Rule and Profile in one file that can be loaded in the future using the Load Application button.



. Click on Create Mediastrip to generate a PDF of the color patches in the proper layout for your

#### spectrophotometer.

ailable Types for App: Newco Job Profile	
Single Row]	
[2-Part]	
[Ink By Ink]	
<b>V</b> Sp	ootColors   Primaries in Line
rout	
Any Device [Step By Step Mode]	Height: 5.0 mm / 0.20 inch
	Width: 5.0 mm / 0.20 inch
	☑ Default Patch Size Total length: 55 mm / 2.15 inch
cess Specific	
Attach Flexo Support Strip	<ul> <li>Single Solid (Default)</li> </ul>
(Recommended for Flexo Process)	Overprint (Total Coverage 400%)
rkflow	
DeviceN Colorspace (enables pre-separated builds	)

- Select the target that has the patch arrangement that you require: Single Row, 2-Part, or each patch group by ink color.
  - If you have a check in the box labeled SpotColors Primaries in Line, this will include your SpotColors in the same line as the primaries.
  - If not, the SpotColors will be placed in a separate line.
- Select your device and patch sizes in the Layout section. This will change the format of the patches to conform to your device requirements.
- Process Specific includes an option to Attach Flexo Support Strip to your patches. Selecting this option adds a key line around the control strip to make it easier for reading.
- Workflow provides settings for your Mediastrip file.
  - DeviceN setting will generate the ColorCert Mediastrips as a pre-separated PDF, based on the usersupplied settings. Check with your prepress workflow software for required file separation settings.
  - Illustrator Friendly setting will create ColorCert Mediastrips in an Adobe Illustrator compatible file that is not pre-separated.



- Click on Create As PDF to save a PDF file to the cc\_Mediastrips folder inside the Application folder.
- Open this file in Illustrator to copy and paste the Color Bars into the waste area of the printing plate.
- Reporting allows the configuration of reports should be formatted and sent. Reports can be sent through email or FTP.
- If you are only setting up the Job for a future press run, you can save it now by clicking Close. ColorCert will direct you to save the file in the cc\_jobs folder in your Applications folder.
- 7. Press Setup includes all of the press parameters for this press run.

tails P	ress Setup MediaStrip	Primaries	Undertones Dot Gain Spot Colo		orecard Inkroo
ss Setup					
55			Substrate		
Тур	e:		Type: Paper	<ul> <li>Specification No:</li> </ul>	
sponsibilit	y:		Coating: Matte coate	ed 👻	
Proces	s: Offset Lithography	-	Finish: No Finish	•	
Print Unit			Plate		
Print Onli					
	<b>T</b>		Туре:	Platemaker:	
	di		Varnish		
Spee	u,		Vallisti		
Spee	u.				
Spee	u.		Type:	Specification No:	
Spee at Units	u.			Specification No:	
nt Units			Type: Blanket		_
nt Units	Color Basics Black	Pressure:	Туре:	Specification No: Specification No:	
nt Units 1: 2:	Color Basics Black Color Basics Cyan	Pressure:	Type: Blanket	Specification No:	
nt Units 1: 2: 3:	Color Basics Black Color Basics Cyan Color Basics Magenta	Pressure:     Pressure:	Type: Blanket Type: Process Parameter	Specification No:	
1: 2: 3: 4:	Color Basics Black Color Basics Cyan Color Basics Magenta Color Basics Yellow	Pressure:     Pressure:     Pressure:     Pressure:	Type: Blanket Type: Process Parameter Ink Unit Temp:	Specification No:	
1: 1: 2: 3: 4: 5:	Color Basics Black Color Basics Cyan Color Basics Magenta Color Basics Yellow [5] Color Basics Orange	<ul> <li>Pressure:</li> <li>Pressure:</li> <li>Pressure:</li> <li>Pressure:</li> </ul>	Type: Blanket Type: Process Parameter	Specification No:	
1: 1: 2: 2 3: 4: 5: 6: 1	Color Basics Black Color Basics Cyan Color Basics Magenta Color Basics Yellow (5) Color Basics Orange (5) Color Basics Green	<ul> <li>Pressure:</li> <li>Pressure:</li> <li>Pressure:</li> <li>Pressure:</li> <li>Pressure:</li> </ul>	Type: Blanket Type: Process Parameter Ink Unit Temp:	Specification No:	
1: 2: 3: 4: 5: 6: 7:	Color Basics Black Color Basics Cyan Color Basics Magenta Color Basics Yellow (5) Color Basics Orange (5) Color Basics Green • Not in Use	Pressure:     Pressure:     Pressure:     Pressure:     Pressure:     Pressure:     Pressure:     Pressure:     Pressure:	Type: Blanket Type: Process Parameter Ink Unit Temp:	Specification No:	
1: 1: 2: 2 3: 4: 5: 6: 1	Color Basics Black Color Basics Cyan Color Basics Magenta Color Basics Yellow (5) Color Basics Orange (5) Color Basics Green	Pressure:     Pressure:     Pressure:     Pressure:     Pressure:     Pressure:     Pressure:     Pressure:     Pressure:	Type: Blanket Type: Process Parameter Ink Unit Temp:	Specification No:	
1: 2: 3: 4: 5: 6: 7: 8:	Color Basics Black Color Basics Cyan Color Basics Magenta Color Basics Yellow (S) Color Basics Orange (S) Color Basics Green • Not in Use White		Type: Blanket Type: Process Parameter Ink Unit Temp:	Specification No:	

- Press Information can be entered for informational purposes. Each process will change the related fields to match the parameters for that print process.
- Print Units will list all colors that are included in the selected Profile. Users can rearrange ink colors in the print units if needed by clicking on the color next to the unit number and selecting the ink that will be run on that unit.
- All other data is used for informational purposes only.
- After you have entered the required data, click on the MeasureTool button at the bottom of the screen.



# Sample G7 Job

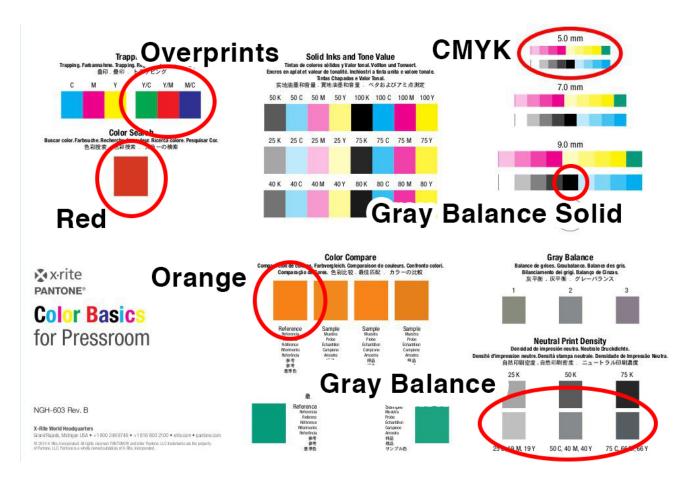
- 1. Connect your X-Rite spectrophotometer.
- 2. Launch the ColorCert software.
- 3. Click on Pressroom Tools, and select Load Job.
- 4. Select the sample Job Color\_Basics\_G7 Job.ccj.
- 5. This open the Job Details

The East Mediating & Window Tosk Mo Statution Mode Reports Pantoral IN** Here   Window Pantoral IN**   Window Pan	Color_Basics_G7_J								
Do Dreats Prozenite Prozenite Prozenite Prozenite Prozenite   Job Details     Design     Color Sasies (07 Job from ICC * *   Job Non:   122355   Cutome:   Sample Cutome:   Band:   Variety:   Band:   Variety:   Color Street:   Ina Contact:   Brand:   Variety:   Contact:   Brand:   Variety:   Contact:   Brand:   Variety:   Contact:   Screen Court:	File Edit Mediast	rip© Window Tools Job Selec	tion Mode Repository	PantoneLIVE <sup>™</sup> ⊢	lelp				
Design Color Separator     Name: Color Basics G7 Job from ICC     Name: Sample Customer   Busines: Sample Customer   Busines: Sumple Customer   Busines: Image: Color Basics G7 Job from ICC   Basine: Contact:   Image: Color Basics G7 Job from ICC *   Customer: Sample Customer   Busines: Sample Customer   Busines: From   Basine: Prone:   Variety: Prone:   Variety: Prone:   Variety: Prone:   Street: Sample Street   Sample Customer Sample Street   Soreen Count: Street:   Soreen Count: Sample:   Def Teire: County:				$\rightarrow$			_		_
Design Color Separator     Name: Color Basics G7 Job from ICC     Name: Sample Customer   Busines: Sample Customer   Busines: Sumple Customer   Busines: Image: Color Basics G7 Job from ICC   Basine: Contact:   Image: Color Basics G7 Job from ICC *   Customer: Sample Customer   Busines: Sample Customer   Busines: From   Basine: Prone:   Variety: Prone:   Variety: Prone:   Variety: Prone:   Street: Sample Street   Sample Customer Sample Street   Soreen Count: Street:   Soreen Count: Sample:   Def Teire: County:	[ lob Details]								
Name: Ciolor Basics G7 Job from ICC   Job bio: 123456   Lustome: sample Customer   Busines Util: Phone   Basines U	[JOD Details]								
Job No: 123456   Custome: Sample Customer   Busines Unit Phone:   Street Supple Code:   Supple: Code: Supple: Code:   Supple: Code: Phone:   Busines The Email Address Phone:   Supple: Code: Phone:   Bus	Design	_		Color Separator			Printer		
Ability into Contact: Int	Name:	Color Basics G7 Job from ICC	*	Name:	Sample Separator	*	Name:	Sample Printer	*
Business Unit Phone:   Brand: Phone:   Brand: Fax:   Variety: Fax:   Variety: Fax:   Contry: Fax:   Street: Sample Street:   Sample Street: Sample Street:   Orientation: Fax:   Street: Sample Street:   Orientation: Sample Street:   Orientation: Sample Street:   Street: Sample Street:   Orientation: Sample Street:   Street: Supple Code:   Street: Supple Code:   Supple Street: Supple Code:   Supple Street: Supple Code:   Street: Supple Code:   Street: Supple Code:   Street: Supple Code:   Supple Street: Supple Code:   Street: Supple Code:   Street: Supple Code: </td <td>Job No:</td> <td>123456</td> <td>*</td> <td>Contact:</td> <td>Ima Contact</td> <td>*</td> <td>Contact:</td> <td>Ima Contact</td> <td>*</td>	Job No:	123456	*	Contact:	Ima Contact	*	Contact:	Ima Contact	*
Brand: Fax:   Variety: Street:   Sample Street Sample Street   County: Fax:   County: State:   County: County:   Screen Count: State:   State: Suppler Code:   Suppler Code: Suppler Code:   Suppler Code: Suppler Code:   Suppler Code: Naming: Color_Bailes_G7_Job_from_JCC_m	Customer:	Sample Customer							
Varlety: Email Address: ima.contact@sampleseparator.com   UPC / Spec No: Street:   Prod Orier No: Street:   Address: Sample Street   2 JP: 12345   Orientation: Surface   Orientation: Surface   Screen Count: Suppler Code:   Screen Rome File:   Destination: Imail Address:   Interple: Imail Address:   Interple: Suppler Code:   Suppler Code: Suppler Code:   Suppler Code: Suppler Code:   Suppler Code: Suppler Code:   Supple: Supple:   Supple: Sample   Interple: Supple:   Supple: Supple:   Supple: Sample:   Supple: Sample: <	Business Unit:			Phone:			Phone:		
UBC / Spec No:   Prod Offier No:   Artwork Target:   Orientation:   Street:   Sample Street:   Street:   Sample Street:   Street:   Sample Street:   Street: <t< td=""><td>Brand:</td><td></td><td></td><td>Fax:</td><td></td><td></td><td>Fax:</td><td></td><td></td></t<>	Brand:			Fax:			Fax:		
Prod Order No: ZJP: 1245   Artwork Target: City: Sampletown   Orientation: Suppletown   State: State:   Country: Country:   Screen Count: Suppler Code:   Supply As: Roll   Pallet Sampletown   Supply As: Roll   Pallet Sampletown   Betinetion: Image: Color_Basics_G7_Job_from_ICC_im	Variety:			Email Address:	ima.contact@sampleseparator.com		Email Address:	ima.contact@sampleprinter.com	
Artwork Target:   Orientation:   Surger Count:   Screen Count:   Screen Count:   Screen Count:   Screen Count:   Supply As:   Roll   Pallet   Sample     Reporting   Destination:   Image:   Do Preview:   Image:   Destination:   Image:   Destination:   Image:   Destination:   Image:   Color_Basics_G7_Job_from_JCC_m	UPC / Spec No:			Street:	Sample Street		Street:	Sample Street	
Orientation:       State:       State:       Country:         Screen Count:       Screen Count:       Country:       Country:         Screen Count:       Supplier Code:       Supplier Code:         Supply As:       Roll       Pallet       Sample         Job Preview:       September Code:       Supplier Code:       Supplier Code:         Job Preview:       September Code:       Supplier Code:       Supplier Code:         Destination:       Image: Color_Basics_G7_Job_from_JCC_im       Production Date	Prod Order No:			ZIP:	12345		ZIP:	12345	
Country:     Country:       Screen Count:     Supplier Code:       Screen Type:     Supplier Code:       Lot Size:     Supplier Code:       Supplier Code:     Supplier Code:	Artwork Target:			City:	Sampletown		City:	Sampletown	
Screen Count:       Supplier Code:       Supplier Code:         Streening Type:       Lot Size:       Supplier Code:         Supply As:       Roll       Pallet       Sample         Job Preview:       Reporting       Files         Load File:       Destination:       Naming: Color_Basics_G7_Job_from_ICC_up         Production Date       Production Date	Orientation:	Surface 💌	]	State:			State:		
Screening Type:     Suppler Code:     Suppler Code:       Lot Size:     Supply As:     Roll     Pallet     Sample       Job Preview: <ul> <li></li></ul>		•		Country:			Country:		
Lot Size: Supply As: Roll Pallet @ Sample Job Preview: Remove Production Date Production Date	Screen Count:								
Supply As: Roll Pallet @ Sample Job Preview: Load file Remove Production Date Production Date	Screening Type:			Supplier Code:			Supplier Code:		
Supply As: Roll Pallet © Sample Job Predex: Remove  Production Date Production Date	Lot Size:								
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Job Predext Load File Remove Production Date Production Date	Supply As:	🔘 Roll 🛛 🔘 Pallet 💿 Sampl	e						
Load File	Inter Description		1	Reporting			Files		
Load Re     Image: Control of the contro	JOD Preview:			Destination:			Naming:	Color_Basics_G7_Job_from_ICC	
		Red Cris Estimes Spid					2		
	Remove			Production Date					
		Gray Balance		Proof:		Press Run:			
			1						
Sample v () Proof MeasureTool eXact v Close	<b>⊗</b> x•rite				Sample	• • Proc	of M	leasureTool eXact	• Close



#### Where to measure

The patch used for the Gray Balance solid is not really a solid gray balance patch. It is sufficient for this sample job but should not be done in production.





## G7 Results

The results for your G7 specific measurements are found by clicking on the SpotColors icon after measuring.

Oclor_Basics_G7														83
File Edit Media	strip© Window	Tools Job Selecti	on Mode Repository	PantoneLIVE	™ Help									
	ress Setup	MediaStrip	Primaries	Dot Gain	Spot Colors	Summary	Scorecard	Inkroom Tools	Application	Preferences				
[SpotColors]														
	SpotColor			<b>∆E00</b>	(1:1:1) <sup>5C</sup>						Quality Level			
<u>()</u>	Color Basic				9.24						1		××	
0	Olor Basic	s Red Tolerand	-a-		2.64 2.00						Best Match:	Dens: 1.69	ΔE00: 2.42	٦
					2.00								220012112	
_	Overprint	_									Quality Level	ÞI		
	<ul> <li>[B] Red (LA</li> <li>[B] Green (</li> </ul>													
	<ul> <li>[b] Gleen (</li> <li>[B] Blue (L/</li> </ul>													
	Gray Balance O	MY		A500	(1:1:1)						Quality Level	FI		
		Average:		200	4.46						Quality Level			
		Maximum:			8.38									
	Gray Balance K			ΔE00	(1:1:1)						Quality Level	<b>FI</b>		
		Average:			1.42									
		Maximum:			1.42									
Numbers Guidar	nce History M	ediastrip												
-		Sample		Best	Match	4			Operating R	ange				
	Dens	164		Dens:	1.69 🔥	3							_	
	Status-T ()	'		Status-T (Y)		2								
	ΔE 200			ΔE: 2000	2.42	1-								
						1.45 1.5	1.55	1.60	1.65 1.7	0 1.75	1.80 1.8	5 1.90		
	BestMatch™	•				Correlation	Mode Density	•	Method	Coated	•	Mode Absol	ute 🔻	•
🔊 🕸 x•rite						Sample 1/		Proof		leasureTool	eXact	•	Close	]



### Working with X-Rite NetProfiler

To track the NetProfiler status for your device you have to select it in the Preferences of ColorCert under Devices.

Program	Files Application	Devices	Labelprinter	Network	Misc	Add-Ons	Versions	Job Setup Wizard
Instruments								
	Offline							
	Recommended Instruments							
	Recommended instruments			1				
	X-Rite eXact [Spectrodensite	ometer]		Use Use	Built-In Driver	5		
	🔿 X-Rite 530 [Spectrodensiton	neter]			Beep off 🔻			
	🔿 X-Rite 939 [Spectrodensiton	neter]					_	Reconnect
	🔿 X-Rite SP62/SP64 [Spherical	Spectrophotometer]						Reconnect
	◎ X-Rite Series Ci5x/Ci6x [Sphe	erical Spectrophoton	neter]	Ena	ble NetProfiler	ł		
	O X-Rite SpectroEye [Spectrod	ensitometer]						

When you connect your device to the software, one of the following icons appear next to the instrument name:



The gray icons mean the device has an active and valid Profile. The red icon means the device is out of specification and needs to be NetProfiled.

These icons can appear in multiple locations in the application. For example, when you initially connect to the device in Preferences/Devices, it appears next to the device name and indicates that NetProfiler is valid on the device and it is alright to continue taking measurements.

[MeasureTool] Clear Patch Clear All Manual [Patch By Patch] | Prima... ‡ Substrate Averaging Averaging

Another example is when you begin to take a measurement in a Job, as illustrated below.

The NetProfiler option cannot be switched On or Off by a user or administrator.

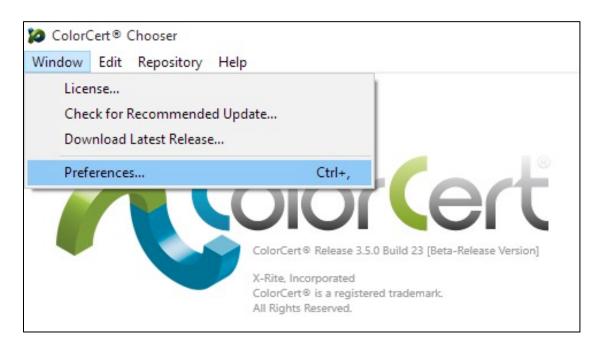


# **QA Tools Module**

The QA Tools module is designed as a stand-alone utility for non job based workflows.

### **Database setup**

Enter database configuration by clicking on Window > Preferences from the ColorCert chooser screen.



Click the "Workflow" tab.

8						
		$\frown$				
Program	Files	Workflow	Devices	Label Printer	Netw	
On Startup	_			_		
On Startup						
	🗹 Che	ck For Updates				
	🗹 Rem	ember Window Size	÷			
	? 🗆 Sho	w Floating App Swite	cher Button	Default	:	



## Local Database Configuration

In the XML Export section change the Type to "Local Database"

8							×
Program	Files Workflow	Devices Label F	Printer Network	Color	Misc Add-Ons	Versions	Job Setup Wizard
MeasureTool							
	Mediastrip: Prefer Custo	om Patch Order	Auto jum	p to Summary	~		
	Double-Click a Patch to	take single Reading		🗹 Warn up	pon suspect measurements		> 0.0 ∆E
?	Default size of printed F	Patches:		🗌 Display	Resulting Color in Averaging	Mode	
	🔿 mm 💿 ine	ch 0.00 inch					Default
Make-Ready N	lode						
?	Enabled						
	Offer to clear records u	pon leaving Make-Ready Mod	ie	🗌 Auto Sta	art Make-Ready Mode		Default
PDF Report							
	Auto Show	Disc	lose Press Setup	🗹 Draw Li	ght Gray Background		
	Only keep most recent:	100 🗹 Disc	lose Application Setup	🗹 Draw Pr	eview Picture if available		
	0			1			
	Page Size: US Letter Page Size: DIN A4	Type: Full Siz	e Report ∽				Default
XML Export	0.1351111						
AMIL Export				1996 - 1972 P.S.	12		
•	<ul> <li>Auto Export</li> <li>Disclose Press Setup</li> </ul>			ze (No unused Field			
Turn	e: XML V			e Naming Convent e Job Filename	ion		
Typ		ion	O name na	, ob menance			
	MSSQL t						Default
<b>☆</b> x•rite							Close



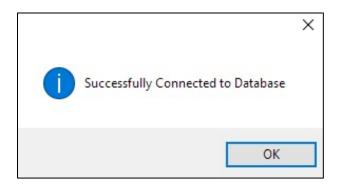
### Starting with a new database

ColorCert will automatically create a new database unless you point it to an existing database. This will be the case for new customers. Many new customers may also choose to start over with a clean database.

ColorCert automatically creates a database named "Export.db" in the "ColorCert Data/cc\_libraries" folder. To test your connect to this database Click the "Test" button.

Program	Files Workflow Devices Label Printer Network Color Misc Add-Ons	; Versions Job Setup Wizard
MeasureTool		
	Mediastrip: Prefer Custom Patch Order Auto jump to Summary ~	
	Double-Click a Patch to take single Reading Warn upon suspect measurement	ts > 0.0 ΔE
?	Default size of printed Patches: Display Resulting Color in Average	ing Mode
	○ mm	Default
Make-Ready I	Mode	
?	Enabled	
	Contraction     Contracti	Default
		10000000000000000000000000000000000000
PDF Report		
	Auto Show Disclose Press Setup Draw Light Gray Background	
	Only keep most recent:       100       Image: Disclose Application Setup       Image: Draw Preview Picture if available	
	Page Size: US Letter     Tupe: Full Size Report	
	Page Size: US Letter Type: Full Size Report     Page Size: DIN A4	Default
XML Export		
?	Auto Export Database: uments\ColorCert Data\cc_libraries\	Export.dv +
	☑ Disclose Press Setup	Test
Тур	e: Local Database V	
	Export on Job Completion	Default
	O Export each Roll/Pallet	Delaut
x-rite		Close

You will see a message indicating a successful connection to the database. You may click on the "OK" button to close it.





## Connecting to an existing (converted) database

If you are going to use a database that you have converted from an existing X-RiteColor Master database, you will need to begin by placing the converted database in to "ColorCert Data/cc\_libraries" folder. The default location for this folder is:

Windows: C:\Users\Public\Documents\ColorCert Data\cc\_libraries

Mac: Macintosh HD/Users/Shared/ColroCert Data/cc\_libraries

File Home Share View							^
to Quick Copy Paste access	Move Copy to to to	New item ▼ 1 Easy access ▼ 1 folder	Properties	Dpen - Select all Edit Select none History Invert select			
Clipboard	Organize	New	Open	Select			
→ 👻 🛧 📙 > This PC → Local Di	isk (C:) > Users > Public > Public	Documents > ColorCert [	Data → cc_librari	es	v © ∨	earch cc	
🖈 Quick access	Name	Date	modified	Туре	Size		
	Archive	6/19/	/18 10:55 AM	File folder			
CneDrive	Export.db	6/18,	/18 4:38 PM	Data Base File	116	KB	
This PC	🚳 My Converted Database.db	6/19/	/18 10:13 AM	Data Base File	63,180	KB	
🔜 Desktop							
Desktop							

- Change the XML Export Type to "Local Database" as shown above.
- Click the button with the ellipsis (3 dots) just above the test button.

			IS Job Setup Wizar
MeasureTool			
	Mediastrip: Prefer Custom Patch Order Auto jump to Summary	~	
	Double-Click a Patch to take single Reading Warn upon sus	pect measurements	> 0.0 ΔE
?	Default size of printed Patches:     Display Resulti	ng Color in Averaging Mode	
	O mm (1) inch 0.00 inch		Default
Make-Ready Mo	ode		
?	Enabled		
	Offer to clear records upon leaving Make-Ready Mode	e-Ready Mode	Default
PDF Report	Auto Show Disclose Press Setup Draw Light Gra		
	Only keep most recent: 100 Disclose Application Setup Draw Preview 1	Picture if available	
	Page Size: US Letter     Type: Full Size Report		
	O Page Size: DIN A4		Default
(ML Export			
?	Auto Export     Database: uments\ColorCert	Data\cc_libraries\Export.db	+
	Disclose Press Setup		Ter
Type:	Local Database 🗸		
	Export on Job Completion		
	O Export each Roll/Pallet		Default



- Navigate to the cc\_libraries folder
- Click on your converted database to highlight it
- Click the "Open" button

Select a Local D	atabase File				×
Look jn:	cc_libraries	•	✓ ③ Ø ▷ □•		
4	Name	^	Date modified	Туре	Size
	Archive		6/19/18 10:55 AM	File folder	
Quick access	Export.db		6/18/18 4:38 PM	Data Base File	11
	My Conve	erted Database.db	6/19/18 10:13 AM	Data Base File	63,18
		K			
Desktop					
-					
Libraries					
This PC					
-					
<b>.</b>	<				~
Network	1				
	File <u>n</u> ame:	My Converted Database.c	db		<u>O</u> pen
	Files of type:	SQLite Database		~	Cancel

• To test your connect to this database Click the "Test" button



### Using a local database on a shared network drive

**Please Note:** While it is possible to use a SQLite Database on a shared network drive, it should only be considered in those circumstances where just a few workstations will be connected concurrently. Any more than this would require an SQL Server Database on the back end.

You will likely need to ask your IT department to help with this configuration. The following steps assume a knowledge of network configuration and will require knowledge of your network as well as permissions typically grated just to those in IT.

- Create a folder on your local network to contain your database
- Place the database into this folder
- Map this folder on your workstation
- Change the XML Export Type to "Local Database" as shown above.
- Click the button with the ellipsis (3 dots) just above the test button.
- Navigate to the database in the mapped network drive (see image below)
- Click the "Open" button
- To test your connect to this database Click the "Test" button

ogram	Files Workflow	Devices	Label Printer	Network	Color	Misc	Add-Ons	Versions	Job Setup Wiz
leasureTool	_		_						
	Mediastrip: Prefer Custo	om Patch Order		Auto jum	o to Summa	ry	~		
	Double-Click a Patch to	take single Read	ing		🗹 Warr	n upon suspec	t measurements		> 0.0 ΔE
?	Default size of printed R	Patches:			🗌 Disp	lay Resulting (	Color in Averaging I	Node	
	🔿 mm 🛛 💿 in	ch 0.00 in	nch						Default
lake-Ready N	node		_						
?	Enabled								
	Offer to clear records u	pon leaving Make	e-Ready Mode		Auto	Start Make-R	eady Mode		Default
OF Report	Auto Show	100	Disclose Press			v Light Gray B v Preview Picti	ackground ure if available		
	Page Size: US Letter	Ту	pe: Full Size Report	~					
	🔘 Page Size: DIN A4								Default
ML Export									
	_		_ /						
?	Auto Export			Databa	e: R:\Expor	t.db		+	
	Disclose Press Setup							Tes	st
Тур	e: Local Database 🛛 🗸								
	Export on Job Complet	ion							Default
	O Export each Roll/Pallet								Deladit



## Using an MSSQL database

For deployments of QA Tools in operations that will have more than just a few work stations, QA Tools also supports the use of MSSQL databases. The ColorCert QA Tools solution just needs to point at a dedicated database within your SQL Server.



### **Instrument Geometries and QA Tools Database**

The database that has been developed for use in ColorCert QA Tools supports both single angle (eXact, 530, 939, and SpectroEye) and Spherical (SP62, SP64, Ci5c, Ci6x) spectrophotometers. Legacy products required separate databases for different geometries.

When using a spherical device you will be able to select either Specular Included (SPIN), or Specular Excluded (SPEX) as the measurement mode. When connected to a single angle device the measurement odes are M0, M1, M2, or M3.

Eustomer		Customer:	None			Observer: 2*	(	✓ SPIN		~	Editors
Project		Substrate:	None			Illumination: D50		×		Measu	re Substrate
Ci64 Red					۱. L	ock to this Standard		Trial Da	ites:		
ials						Lab Plo	t				
	Std.	Trial	Delta								
L 5	5.86	55.96	0.10				-				
	50.81	60.65	-0.16				50 -				
	10.84 73.25	40.64	-0.20 -0.24						/		
	3.89	73.01 33.83	-0.24 -0.06				-		/		
							45 -	° /			/
							45			/	
DeltaE	Time						-	/		/	
0.10		-06-19 10:13					40 -	/	*	/	
6.43		-06-19 08:49					40-	/		/	
0.12		-06-19 08:4					- /			/	
0.07		-06-19 08:4					1		/		
0.00	2010	-00-15 00.4	7.51				35-		/		
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umbers								55	60	65 70	
umbers	_							55	60	65 70	
umbers Unit		Tar	get	Sample	Diff	Tolerance Res	50	55 Method	60 Diff		sult
Unit	_	55	.86	55.96	0.10	Tolerance Res	50	<b>Method</b> ΔΕΟΟ (1:1:1)	<b>Diff</b> 0.12		suit
Unit L a		55 60	5.86 0.81	55.96 60.65	0.10 -0.16	Tolerance Res	50	Method	Diff	Tolerance Res	
Unit L a b		55 60 40	i.86 ).81 ).84	55.96 60.65 40.64	0.10 -0.16 -0.20	Tolerance Res	50	<b>Method</b> ΔΕΟΟ (1:1:1)	<b>Diff</b> 0.12	Tolerance Res	
Unit L a C		55 60 40 73	i.86 ).81 ).84 ).26	55.96 60.65 40.64 73.01	0.10 -0.16 -0.20 -0.25	Tolerance Res	50	<b>Method</b> ΔΕΟΟ (1:1:1)	<b>Diff</b> 0.12	Tolerance Res	
L a b C h		55 60 40 73 33	5.86 0.81 0.84 5.26 5.89	55.96 60.65 40.64 73.01 33.83	0.10 -0.16 -0.20 -0.25 -0.06	Tolerance Res	50	<b>Method</b> ΔΕΟΟ (1:1:1)	<b>Diff</b> 0.12	Tolerance Res	
Unit L a C		55 60 40 73 33	i.86 ).81 ).84 ).26	55.96 60.65 40.64 73.01	0.10 -0.16 -0.20 -0.25	Tolerance Res	50	<b>Method</b> ΔΕΟΟ (1:1:1)	<b>Diff</b> 0.12	Tolerance Res	
Unit L a C h		55 60 40 73 33	5.86 0.81 0.84 5.26 5.89	55.96 60.65 40.64 73.01 33.83	0.10 -0.16 -0.20 -0.25 -0.06	Tolerance Res	50	<b>Method</b> ΔΕΟΟ (1:1:1)	<b>Diff</b> 0.12	Tolerance Res	
Unit L a C h		55 60 40 73 33	5.86 0.81 0.84 5.26 5.89	55.96 60.65 40.64 73.01 33.83	0.10 -0.16 -0.20 -0.25 -0.06	Tolerance Res	50	<b>Method</b> ΔΕΟΟ (1:1:1)	<b>Diff</b> 0.12	Tolerance Res	
Unit L a C h		55 60 40 73 33	5.86 0.81 0.84 5.26 5.89	55.96 60.65 40.64 73.01 33.83	0.10 -0.16 -0.20 -0.25 -0.06		ult	<b>Method</b> ΔΕΟΟ (1:1:1)	Diff 0.12 [0.27]	Tolerance Re: 3.00	
Unit L a C h		55 60 40 73 33	5.86 0.81 0.84 5.26 5.89	55.96 60.65 40.64 73.01 33.83	0.10 -0.16 -0.20 -0.25 -0.06	Tolerance Res	ult	<u>Method</u> ΔΕ00 (1:1:1) [ΔΕ]	Diff 0.12 [0.27]	Tolerance Res	~
Unit L a C h	_	55 60 40 73 33	5.86 0.81 0.84 5.26 5.89	55.96 60.65 40.64 73.01 33.83	0.10 -0.16 -0.20 -0.25 -0.06		ult	<u>Method</u> ΔΕ00 (1:1:1) [ΔΕ]	Diff 0.12 [0.27]	Tolerance Re: 3.00	~
Unit L a C h		55 60 40 73 33	5.86 0.81 0.84 5.26 5.89	55.96 60.65 40.64 73.01 33.83	0.10 -0.16 -0.20 -0.25 -0.06		ult	<u>Method</u> ΔΕ00 (1:1:1) [ΔΕ]	Diff 0.12 [0.27]	Tolerance Re: 3.00	~
Unit L a C h		55 60 40 73 33	5.86 0.81 0.84 5.26 5.89	55.96 60.65 40.64 73.01 33.83	0.10 -0.16 -0.20 -0.25 -0.06		ult	<u>Method</u> ΔΕ00 (1:1:1) [ΔΕ]	Diff 0.12 [0.27]	Tolerance Re: 3.00	~
Unit L a C h		55 60 40 73 33	5.86 0.81 0.84 5.26 5.89	55.96 60.65 40.64 73.01 33.83	0.10 -0.16 -0.20 -0.25 -0.06		ult	<u>Method</u> ΔΕ00 (1:1:1) [ΔΕ]	Diff 0.12 [0.27]	Tolerance Re: 3.00	~



# **ColorCert QA Tools module**

This section discusses the ColorCert QA Tools interface and provides a step by step guide of creating a new standard and measuring a sample.

### **The Chooser**

The main window is called the Chooser. This will look different based on the license you purchased.

The Manager version of ColorCert is used to define Jobs, Profiles, Rules, Applications, Substrates, Inks, and Tolerances. It includes all available modules including QA Tools.





The Pressroom Client has access to QA tools, as well as Pressroom Tools for job based workflows and Inkroom Tools for quick QC checks which are not saved to the ColorCert database.

🞾 ColorCert® Chooser			
Window Edit Repositor	y PantoneLIVE™ Help		
	ColorCert® Release 3.5.0 Build 6 [Beta-Release Version] X-Rite. Incorporated ColorCert® Ralease 3.5.0 Build 6 [Beta-Release Version] X-Rite. Incorporated ColorCert® Is a registered trademark. All Rights Reserved. Registered to X-Rite M149 X-Rite Bob Binder S00 44th Street 55 Grand Rapids 43512 Grand Rapids 43512 Grand Rapids 43512		
[Chooser]			
Pressroom	n Tools QA Tools Inkroo	om Tools   Basic	
X-Rite eXact			
x•rite	Feedback 👻	Quit	

The QA Tools version has access to just the QA tools module.

0 0 0	ColorCert® Chooser	
R	ColorCert® 64-bit Release 3.5.0 Build 20 [Beta-Release Versid X-Rite, incorporated ColorCert® is a registered trademark. All Rights Reserved.	on]
	Registered to X-Rite Ames Pond M1 X-Rite Ames Pond Chris Barliett 200 Ames Pond Drive Terksbury MA 01876 USA	
[Chooser]	QA Tools	
X-Rite eXact		
🔊 x rite		Feedback 👻 Quit

#### Feedback

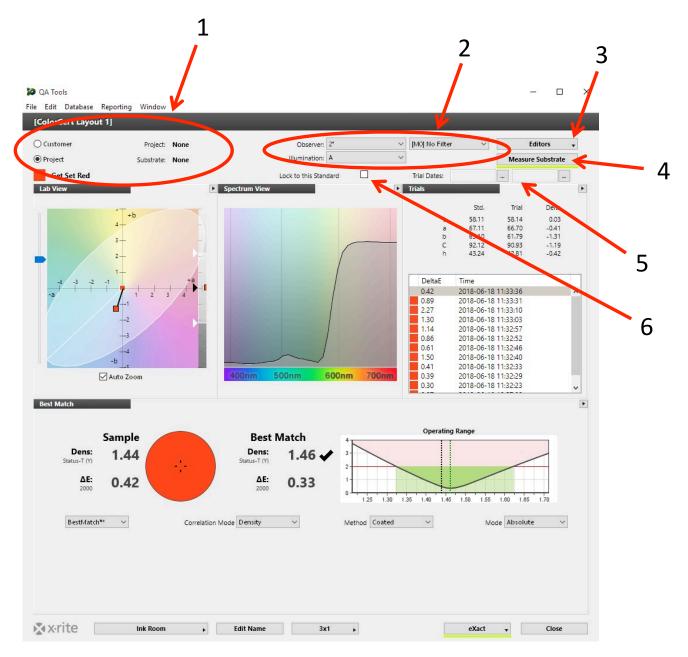
From the chooser menu you may also click on the feedback menu. From here you can Suggest a Feature, Report a Bug, or Contact a support or sales representative from xrite.com.



The top portion of the screen contains options for:

- 1. Applying filters to limit automatic color selection to a particular Customer or Project
- 2. Measurements conditions
- 3. Editor selection button
- 4. Measure substrate button
- 5. Date filters
- 6. Standard lock button

Depending upon your user permissions, you may or may not have access to all of these features.



The bottom portion of the QA Tools window contains a number of user configurable views of the data.



Near the bottom of the main screen, you will find a button that allows you to change your view of the data being displayed.

There are 4 preconfigured display configurations and 4 blank display configurations for you to create your own custom views of the data. You can change display configurations by clicking the button circled below, and then selecting any of the 8 available display configurations by clicking them in the pick list that appears. Please note that the name of this selection button changes to show the current display configuration selected.

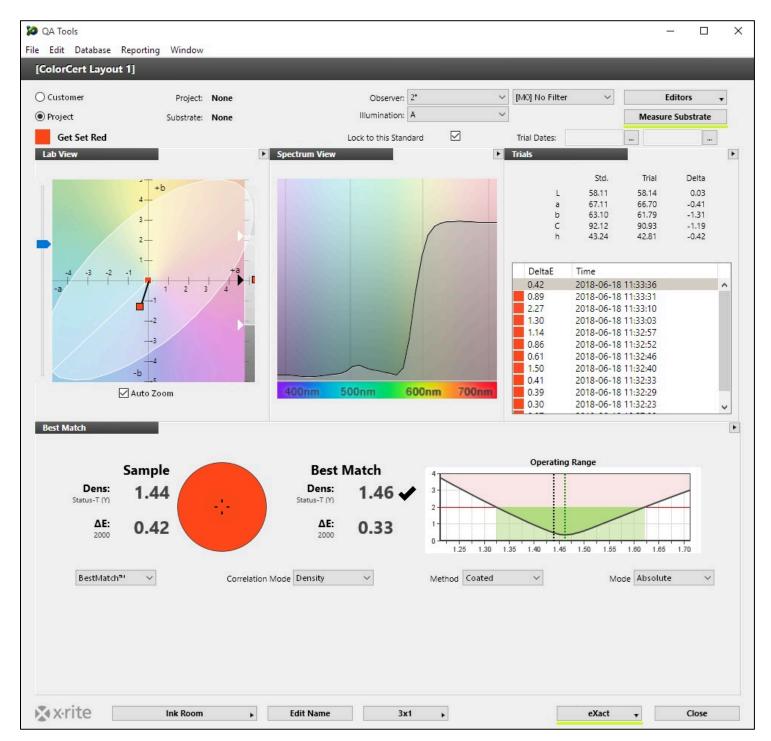
		Press Pressroom Density Single Window 5 Window 6	
X·rite Ink Ro	om +	Window 7 Window 8 Edit Name	3x1



## The Ink Room Display Configuration

The "Ink Room" display configuration contains the following data views:

- L\*a\*b View (plot of standard and currently selected sample on an L\*a\*b\* graph along with the assigned tolerance)
- Spectrum View (spectral curve of standard and currently selected sample)
- Trials (L\*a\*b\* data for standard and trials along with a date and time stamp)
- Best Match (Graphical view of the currently selected sample and it's correlation to the standard)

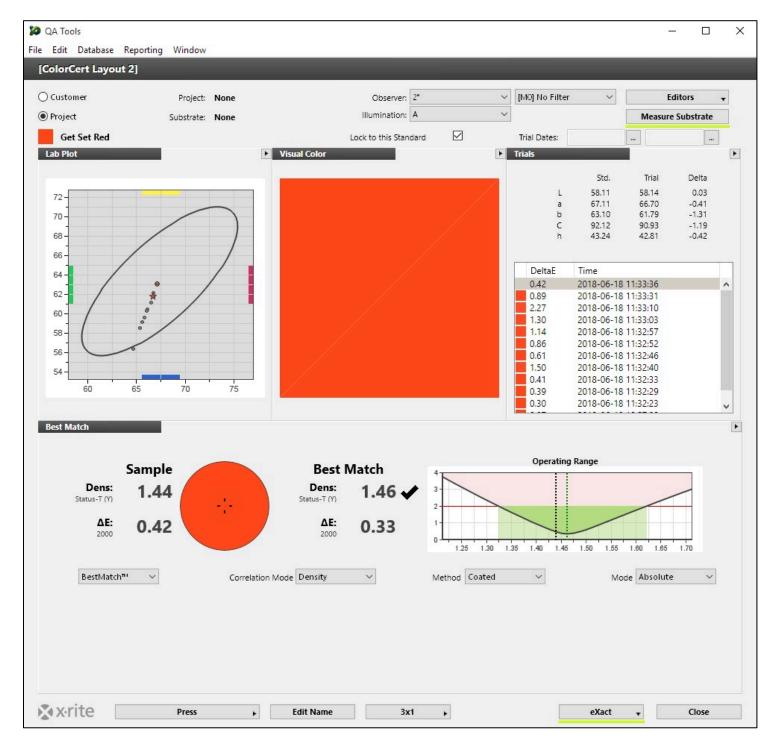




## The Press Display Configuration

The "Press" display configuration contains the following data views:

- L\*a\*b Plot (Scatter plot of standard and trials on an L\*a\*b\* graph along with the assigned tolerance)
- Visual Color (Visual representation of the standard and current sample)
- Trials (L\*a\*b\* data for standard and trials along with a date and time stamp)
- Best Match (Graphical view of sample and it's correlation to the standard)

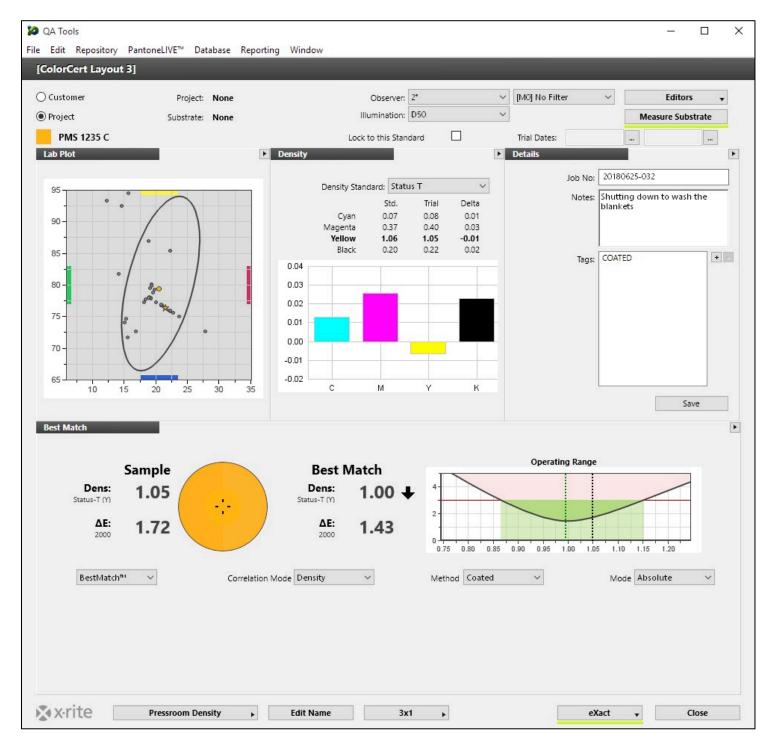




## The Pressroom Density Display Configuration

The "Ink Room" display configuration contains the following data views:

- L\*a\*b Plot (Scatter plot of standard and trials on an L\*a\*b\* graph along with the assigned tolerance)
- Density (density graph along with data for all 4 filters)
- Details (Allows operator to enter and view the job number as well as notes and tags to a trial)
- Best Match (Graphical view of sample and it's correlation to the standard)

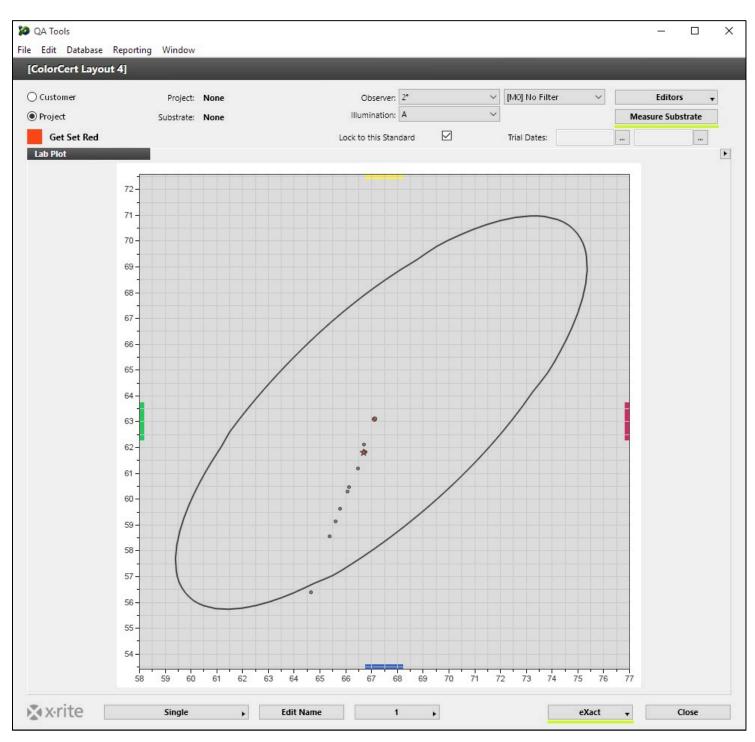




## The Single View Display Configuration

The "Single View" display configuration contains the following data views:

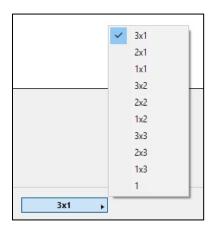
• L\*a\*b View (plot of standard and sample on an L\*a\*b\* graph along with the assigned tolerance)





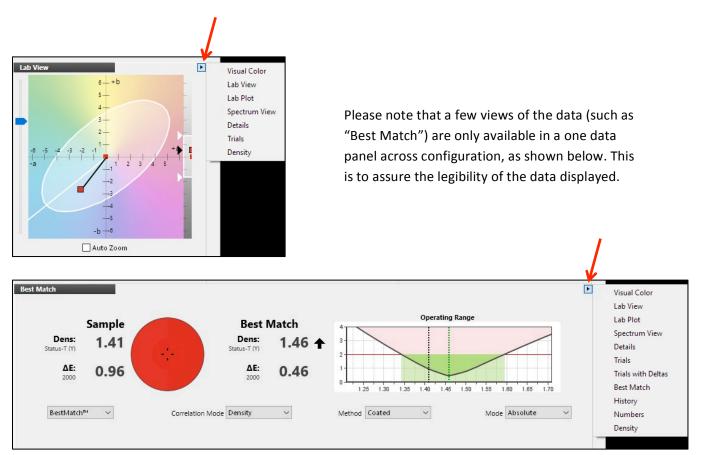
ColorCert allows you to customize all of the 8 standard data configurations, including the 4 built-in configurations. Near the bottom of the main screen, you will find two buttons. One labeled with the word "Window" followed by a number (or a standard configuration name, i.e. "Ink Room), and the second with a number pair (or just the number 1).

The button with the numbers is used to select the number and arrangement of data panels on this screen.



The screen contains two rows of data panels. The first number in the dropdown list refers to the number of panels in the first row and the second number refers to the number of panels in the second row. The example screen shown on the previous page is a 3x1 layout. The last option, number 1, allows you to select a single data panel to fill the entire screen.

Once you have chosen your data panel arrangement, you may select the data to view in each by clicking the arrow icon in the upper right hand corner of each panel.



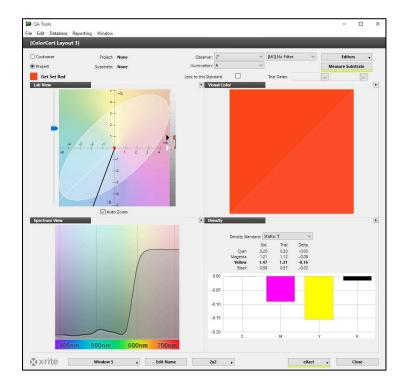


The "Window" button is used to save particular screen layouts. This allows you to quickly recall them during production. You may, for example, wish to save specific layouts for particular customers, or you may have press operators that prefer a unique view of their data.

The first time you open the Window 5, 6, 7, or 8 layouts, you will find place holders.

<ul> <li>QA Tools</li> <li>File Edit Database Reportir</li> <li>[ColorCert Layout 3]</li> </ul>	ng Window							- 0	×
Customer	Project: Substrate:			Observer: 2* Illumination: A		/ [M0] No Filter	× .	Editors Measure Substrate	•
Get Set Red	Substrate.	None		Lock to this Standard		Trial Dates:	-		
Placeholder			Placeholder			Placeholder			×
Placeholder									٠
🐼 x·rite	Window 5	,	Edit Name	3x1	•		eXact 🗸	Close	

To create a new custom view simply select a layout configuration using the button with the numbers, then select a view for each data panel. In the example below I selected Window 5, chose a 2x2 layout, and then added 4 graphical data views.





ColorCert QA tools will automatically remember this configuration. At this point you may click on the "Window #" button to return to a previously saved view. Clicking on the "Window #" button and selecting "Window 4" will return you to this particular configuration. There is no particular action required on your part to save a configuration, ColorCert remembers your most recent configurations.



### Search and Find

ColorCert QA Tools is able to search the database of color standards and display a list of standards that are very similar in color to the trial measured. You may then select the appropriate color standard.

To use this feature, make sure that your measurement instrument is turned on and that the software has established a connection to the device as indicated by a green line under the instrument button near the bottom of the software window.

eXact 🗸	Close
---------	-------

Then you simply need to measure something. If ColorCert QA Tools is able to find one or more standards that are very close (as defined within the software settings), it will display a list of these standards. You can double click on any standard in the list to select it.

<b>10</b>					_		$\times$
[Load Standard]							
		_					
Select a Standard		Search:					
5-14-1 5 (2520			~				
Entries: 5/2539							×
			~				~
		Ļ	~				$\sim$
More Options			~				$\sim$
		[		Show A	1		
Name	DeltaE	Substrate	Measurement Con	ditions	Time		
BFOG0164WM (LAM)	1.62		[M0] No Filter		2014-08-01		
BFOG0165WM (LAM) w/ white b/u	1.99		[M0] No Filter		2013-03-22		
KEOGK166AS (LAM)	2.28		[M0] No Filter		2005-08-18		
ZPOG0021XM (LAM)	2.82		[M0] No Filter		2008-08-07		
CROG1645WM (LAM) w/ white b/u	2.99		[M0] No Filter		2014-11-24	11:00:24	·
				New		Delete	
🔊 x·rite				Close		Select	
-							



If there are no standards close to what was measured, QA Tools will display a message asking if you would like to create a new standard.

				_	-	>
[Load Standard]		_	_			
Select a Standard		Search:				
Entries: 0/2539			~			
			~			~
			Sł	how All		
Name	DeltaE	Substrate	Measurement Cond	itio Time		
				~		
				×		
	) No r	natches found. Do you want to	o create a new standard			
	) No r	natches found. Do you want to	OK Cano	?	Delete	

To create a new standard, click the "OK" button and proceed as described in the "creating new standards" section.

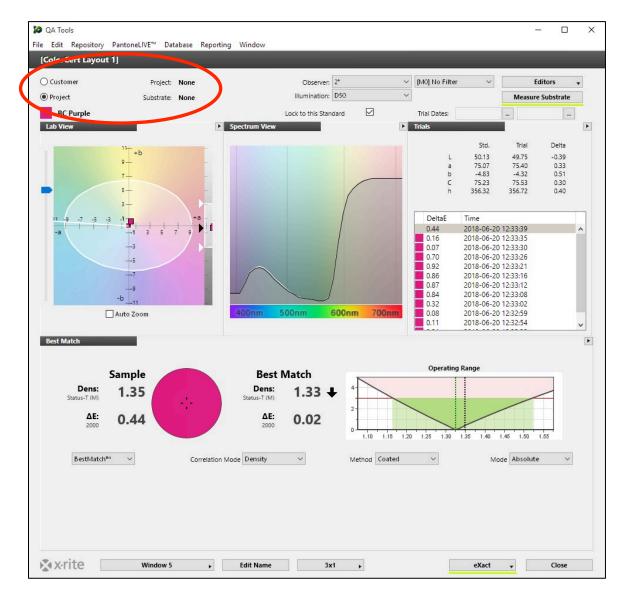


## **Project, Customer, and Substrate Modes**

#### Limiting the color selection

In some cases it is useful to query the entire database when using the search and find function. If you have a relatively large database of colors however, doing so may display a large number of colors from which you may select.

You may find it beneficial to limit the selection of available colors to either a particular customer, project, or those colors associate with a specific substrate. This is done using the filtering selectors.





To make a filter selection, click either the Customer or Project radio button. Then click the word "None" to the right of Customer. This will bring up a list from which you may make a selection by double clicking on the desired item.

You may also click the word "None" next to Substrate and select a substrate to search just those colors that are associated with it.

There is a search box near the top of the selection window if needed to help you find what you are looking for.

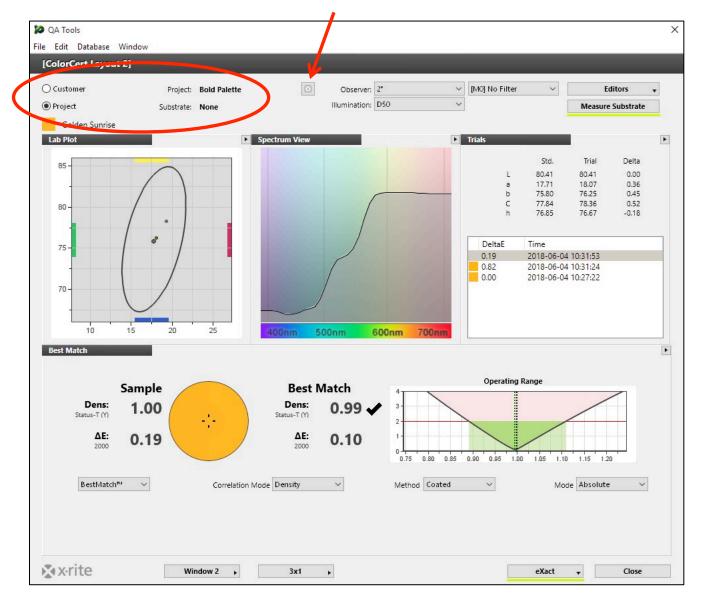
istomer	Select a Project		Search:				Ed	litors
oject	Select a Project		Search:	55				Substrate
Golden Sun Plot	Entries: 5/5			~ ~ ~		> > >	Trial	Delta
				~	Show All	~	80.41 18.07 76.25	0.00 0.36 0.45 0.52
30 -	Name				Customer		78.36 76.67	-0.18
	Bold Palette							
	Clear film reverse print						-	
5-	Frosted Toasties						10:31:53	
_	Super Bowl Promotion						10:31:24	
0-	Super Crunchy Granola						10:27:22	
10	-							
t Match					New	Delete		
<b>Den</b> Status-T (	<b>⊗</b> x•rite				Close	Select		
ΔL. 2000	0 19	2000		0.75	0.80 0.85 0.90 0.9	5 1.00 1.05 1.	.10 1.15 1.20	<u></u>
BestMat	ch <sup>n</sup> v	Correlation Mode Density	~	Method	Coated $\checkmark$	M	ode Absolute	~



Once you are in either Project, Customer, or Substrate mode, ColorCert will only search within the selected subset of standards.

You will see either the Project, Customer, or Substrate name displayed to let you know you are in one of these modes.

To exit Project or Customer mode, click the "X" button to the right of the Project, Customer, or Substrate name.



#### Auto Accept Standard

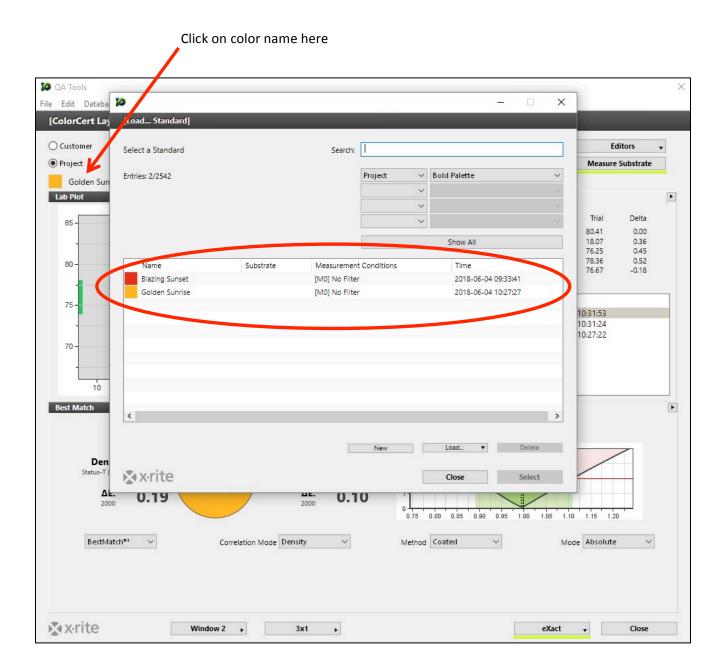
When you are in project mode, ColorCert QA Tools will auto accept the standard that is within the tolerance defined in your default settings. This saves time as there is no need to select the standard from a list.



### Manually Selecting Standards

When you are in either Project or Customer mode, you may toggle between colors by double clicking on the color name right below the Customer and Project mode radio buttons. This will bring up a list of colors assigned to the Project or Customer.

The same thing may be done when not in project or customer mode but the list of displayed color standards may be long as all standards in your database will be displayed in the list displayed.

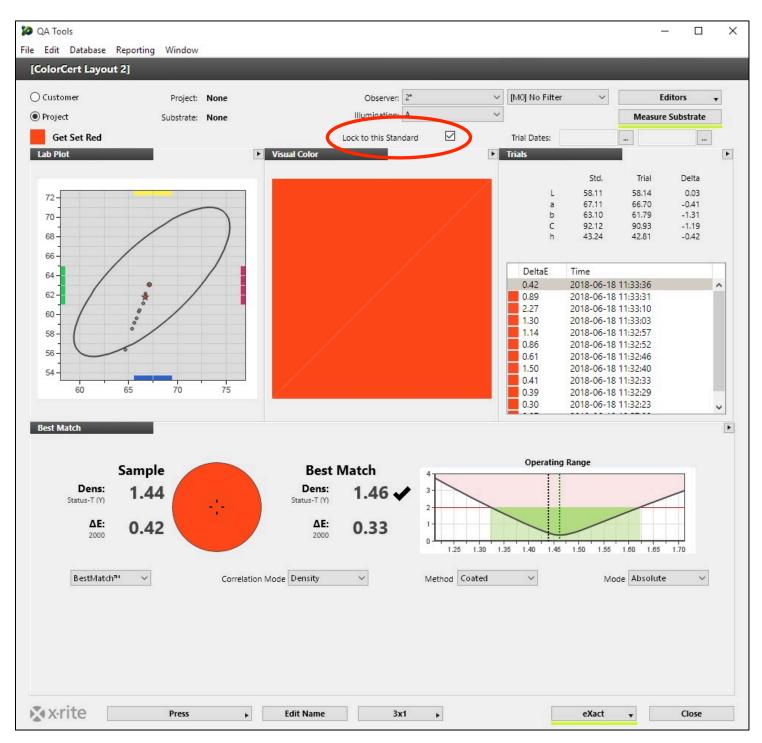




## Locking the Standard

If you wish to lock the standard so that it does not change, regardless of the trial measured, place a check in the "Lock to this Standard".

When you are going to be repeatedly measuring the trials associated with the same standard repeatedly it will save you from having to select your standard from a list every time you take a reading.





As you continue to measure production you will accumulate a wealth of trial data. It is sometimes beneficial to limit the data being displayed to a particular date range. In some cases you may wish to see just the job you are running today, or you need to review historical data to view a previous run.

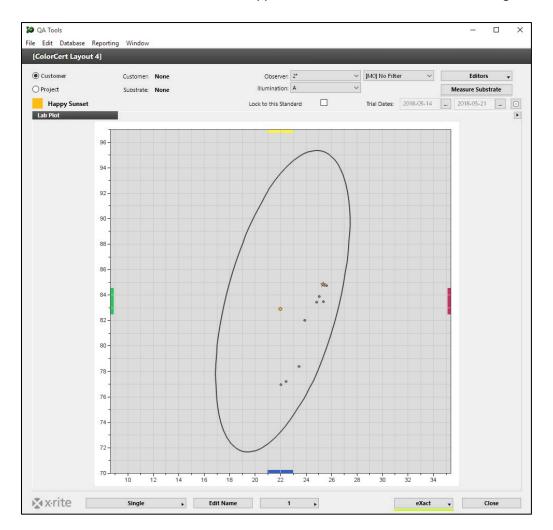
This may be done by entering Beginning and Ending dates in the trial dates flter.

The image below shows our scatter plot with no date filer applied.

DA Tools									– 🗆 X
File Edit Database Report	ing Window								
Customer	Customer:	None		Observer:	2*	~	[M0] No Filter	~	Editors 🗸
O Project	Substrate:			Illumination:	A	~		м	easure Substrate
Happy Sunset				Lock to this Stan	dard 🗌		Trial Dates:		
Lab Plot									E.
96 -								.eee.	
					$\frown$				
94 -				/					
92 -				/					
-				/					
90 -				/					
88 -			/	/					
-			/		0				
86 -			/		•				
84 -			/ •	•	0				
-				•	• • •	/			
82 -				0	°	/			
80 -				• •		/			
					. /				
78 -									
76 -				• •	* •				
				0 0					
74 -				/	0				
72-			$\sim$						
70	10 1	2 14	16 18	20 22	24	26 28	30 32	34	
🗙 x-rite	Single	•	Edit Name	1	•			eXact 🗸	Close

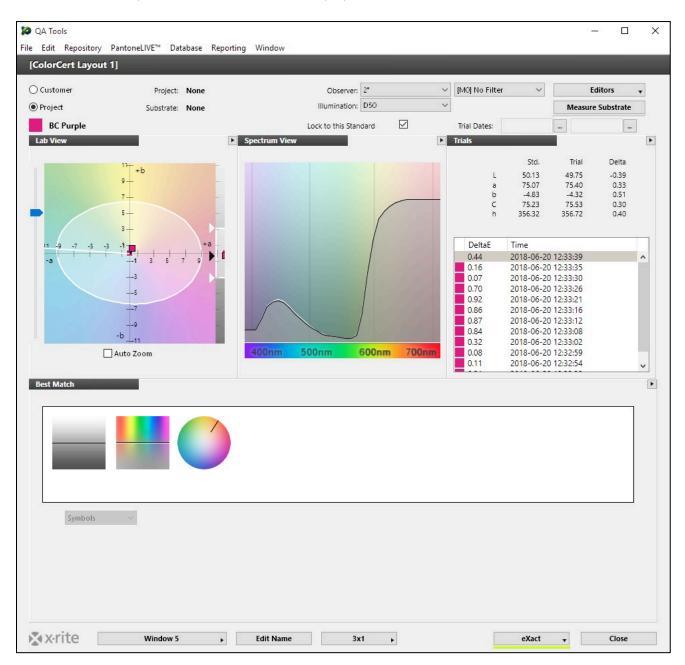


This is the same data with a date filter applied which limits our view to a date range of May 14, 2018 to May 21, 2018.





There are certain metrics that require a substrate measurement to complete the calculation. Examples of this are density in relative (density minus paper) mode, as well as Best Match data. If you take a sample measurement, but do not measure the substrate, these particular attributes will not display.

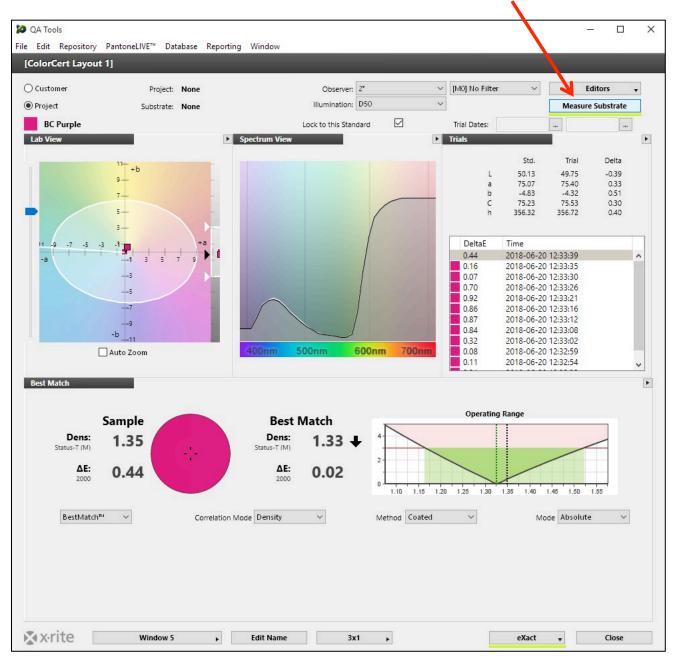




To measure the substrate:

- 1. Click the Measure Substrate button
- 2. Perform the measurement when prompted

The missing data will now display.

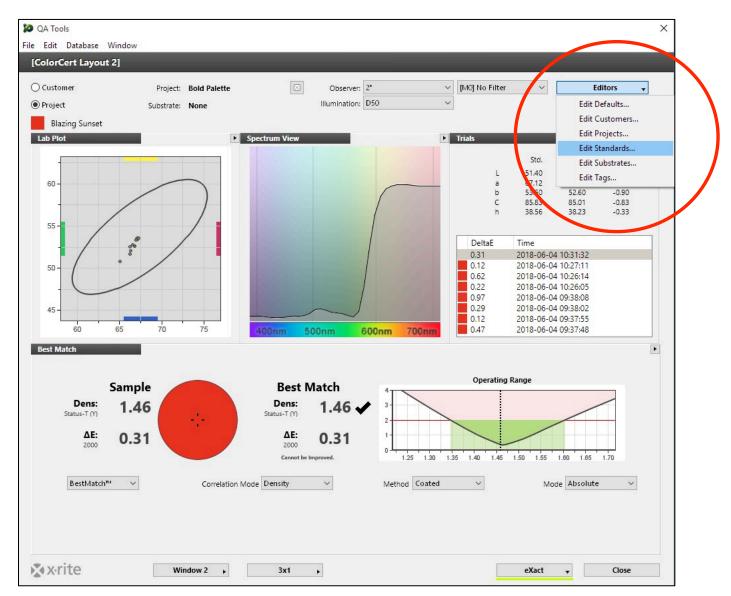




# **Creating New Color Standards**

To create new color standards:

• Click on Editors > Edit Standards...

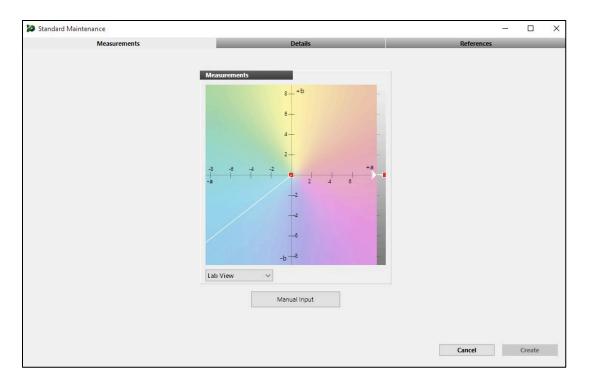




• Click the "New" button.

Load Standard]								
elect a Standard		Search:	1					
ntries: 2/2542			Project	∽ Bold	l Palette			`
				~				
				~				
				~				
					Show All			
Name	Substrate	Measurement	Conditions		Time			
Blazing Sunset		[M0] No Filter			2018-06-0	04 09:33:4	1	
Golden Sunrise		[M0] No Filter			2018-06-0	04 10:27:2	27	
<		6	New		.oad 🔻	1	Delete	2
			New	/				

At the next screen simply use your connected spectrophotometer to measure your standard. You may also click the "Manual Input" button to create standards by entering L\*a\*b\* or spectral data. For information about using PantoneLIVE to create standards, please see the PantoneLIVE section.





0

50

100

#### You may click the "Lab View" button to see various views of the standard that you have measured.

Measurements

100

50-

0

-50 -

-100 -

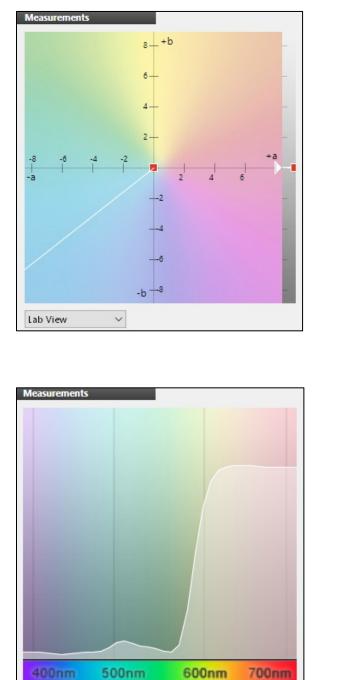
Lab Plot

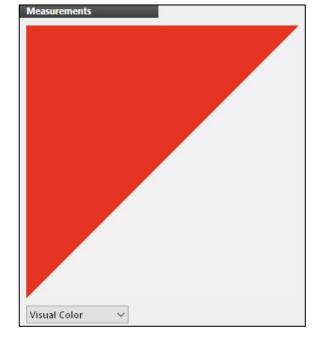
-100

-50

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To continue, click the "Details" tab at the top of the screen.

~

Spectral



Here we need to create a name for the standard, and define our tolerance by selecting the tolerance method and limits in the tolerance section. You may also add any notes and/or description information that you desire.

The Priority selection is used to identify the standard as a High (H), Medium (M), or Low (L) priority color. This is used when QA Tools defaults to a tolerance assigned to the customer, project, or default settings. For more information see the sections on on settings configuration and tolerance hierarchy.

			-	
	Measurements Details	References	_	_
Name:	Santa Red Priority			
Notes:	Ink Swatch approved by Joe Crow on May 23 was measured to create new standard.			
Description:	Swatch produced by Ink Perfection LLC using Clay Coated News Back from Algonquin mill.			
Substrate:	CCNB Algonquin V			
Apply addi	tional tolerance methods			
10000000000000000000000000000000000000	clude in Scoring			
ΔE00	v 1 1 1 1			~
Tolerance	. 2.00			
Tolerance	e 200			
Tolerance	2.00			
Tolerance	ж2.00			

At the references tab you may choose to assign this standard to one or more projects and/or customers by selecting the plus sign in the appropriate quadrant and making a selection from your available options. You may also add tags by highlighting them in the "Available" column and then moving them to the "Selected" column using the arrow button.



tandard Maintenance		– 🗆 X
Measurements	Details	References
roject Super Bowl Promotion Super Crunchy Granola	Customer	
Available WHEAT PITA White Opacity Trial {Instrument needs calibration} {NetProfiler Corrected} {non-XRGA} (XRGA)	Selected Whole Grain	
		Cancel Create

Click the "Create" button to complete the process.



### Averaging multiple reading

When creating color standards it is often advantageous to average several readings. This is enabled in the edit defauls section as follows:

• From the main QA Tools screen click "Editors" then "Edit Defaults"

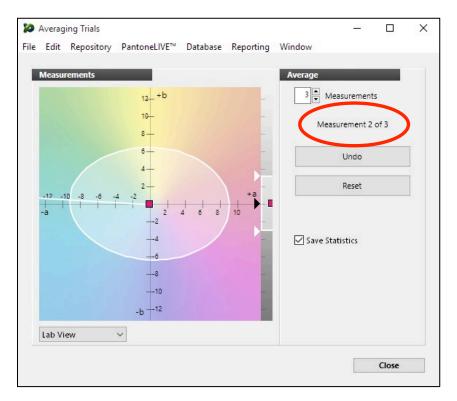
QA Tools										- 🗆	
e Edit Repository Pa	intoneLIVE <sup>™</sup> Dat	tabase F	Reporting Window								
[ColorCert Layout 2]											
🔵 Customer	Project:	None		Observer:	2°	~	[M0] No Filter		E	ditors	-
Project	Substrate:	None		Illumination:	D50	~			Edit D	efaults	
Blueberry			Le	ock to this Stan	dard		Trial Dates:		Edit C	ustomers	-
Lab Plot			Visual Color				Trials			rojects	
				105				Std.		tandards ubstrates	
-30-							L	32.12 5.52	Edit T		
-35-							b	-44.64	-44.58	0.06	_
-35							C h	44.98 277.05	44.95 277.33	-0.03 0.27	

- Place a check in the "Average" checkbox
- In the Defaults Maintenance window enter the desired number of readings into the "Average Count" field
- If you wish to save statistical data regarding the measurements used to create the standard, place a check in the "Save Statistics" checkbox

- cont ite	pository PantoneLIVE	Database	Reporting Wir	dow	
		Defaults			
Search Rule	es				
ΔEOO	~	1 1	1		
	A	+-F.	1		
	Accept to De		-		
	Search	dE:	3		
	AutoEnte				
	Average 🗹		Average (		Save Statistics 🗹



Now as you measure colors to create a standard QA Tools will indicate how many measurements you have taken and how many are required.



After you have completed your last measurement, data regarding your measurements are added to the notes field associated with this standard.

10	Standa	rd Maintenar	nce			
File	Edit	Repository	PantoneLIVE™	Database	Reporting	Window
			Measurements	_	_	
		Name: Notes:	Averaging Statist Range/StdDev, L* 0.01 / 0.00 a* 0.01 / 0.00 b* 0.04 / 0.01 C* 0.01 / 0.00 b* 0.02 / 0.01	ics (3 readin	gs under D50	D/2°):



## Editing existing color standards

To edit existing color standards:

- Click on Editors > Edit Standards...
- Click the name of the color standard you wish to edit
  - You may enter information into the search field to make it easy to find the standard that you are looking for
  - You may also use your instrument to measure a color to find standards which are close
- Click the "Edit" button

🛑 😑 📄 📓 Se	creen Shot 2018-06-20	at 12.26.09.png — Lo	cked ~	
	Z •		Q Search	
[Load Standard]				
			_	_
Select a Standard	Sear	ch:		
Select a Standard	Sear			
Entries: 23/96		\$		0
				0
		\$		\$
✓ More Options		•		\$
Show Gray Shades	)	-	Show All	
Name	Substrate Me	asurement Conditions	Time	F.,
PANTONE 1345 XGC	[MC	)] No Filter	2018-06-20 12:25:23	
PANTONE 1355 XGC	[MC	)] No Filter	2018-06-20 12:25:23	
PANTONE 1365 XGC	[MC	] No Filter	2018-06-20 12:25:23	
PANTONE 137 XGC	[MC	)] No Filter	2018-06-20 12:25:23	
PANTONE 1375 XGC	[MC	] No Filter	2018-06-20 12:25:23	
PANTONE 138 XGC	[MC	)] No Filter	2018-06-20 12:25:23	
PANTONE 1385 XGC	[MC	)] No Filter	2018-06-20 12:25:23	
PANTONE 139 XGC	[MC	)] No Filter	2018-06-20 12:25:23	
PANTONE 140 XGC	[MC	)] No Filter	2018-06-20 12:25:23	
PANTONE 2007 XGC	[MC	)] No Filter	2018-06-20 12:25:23	
PANTONE 2008 XGC	[MC	)] No Filter	2018-06-20 12:25:23	
		New	Load   Dele	te
Swrite				
🔊 x•rite			Close Edi	t



You may also click the "More Options" checkbox and use the sliders to search for colors by hue or gray scale.

🛑 😑 💿 📓 Screen Shot 2018-0	06-20 at 12.26.09.png —	Locked ~
	ð e	Q Search
[Load Standard]		
	_	
Select a Standard	Search:	
Select a Standard	Search.	
Entries: 23/96	•	0
	•	
Continue	\$	
✓ More Options	\$	\$
Show Gray Shades		Show All
	Measurement Conditions	Time
PANTONE 1345 XGC	[MO] No Filter	Time 2018-06-20 12:25:23
PANTONE 1355 XGC	[M0] No Filter	2018-06-20 12:25:23
PANTONE 1365 XGC	[M0] No Filter	2018-06-20 12:25:23
PANTONE 137 XGC	[M0] No Filter	2018-06-20 12:25:23
PANTONE 1375 XGC	[M0] No Filter	2018-06-20 12:25:23
PANTONE 138 XGC	[M0] No Filter	2018-06-20 12:25:23
PANTONE 1385 XGC	[M0] No Filter	2018-06-20 12:25:23
PANTONE 139 XGC	[M0] No Filter	2018-06-20 12:25:23
PANTONE 140 XGC	[M0] No Filter	2018-06-20 12:25:23
PANTONE 2007 XGC	[M0] No Filter	2018-06-20 12:25:23
PANTONE 2008 XGC	[M0] No Filter	2018-06-20 12:25:23
		~~~~~~~~~
	New	Load   Delete
X x-rite		Close Edit

Edit any information that you desire from the Measurements, Details, and/or References tabs and then click the "Update" button.

	Details	References
roject	Customer	
Granola	Great Lakes Granola	
195 Available	Selected	
Available	Selected	
<keyboard input=""></keyboard>		
<reyboard input=""> COATED TEST (Instrument needs calibration) (XRDI)</reyboard>	New	



# **Creating New Customers**

To create new users:

- Click on Editors > Edit Customers...
- Click on the "New" button

				-	>
[Load Customer]					
Select a Customer	Search:				
select a Customer	Search:				 
Entries: 73/73		~			
			Show All		
Name					
Ferrara Pan - Laminated Stds.					^
Ferrero Canada - Laminated					
Flava Puff - Laminated					
FRITO 7 Color Process - Lam					
Frito Lay - Laminated Standards					
Frito Lay TRANSFER 7CP - Lam.					
FRITO-LAY-Milprint North					
Gay Lea Foods (LAM)					
General Mills - Laminated Stds.					
Glanbia - Laminated Standards					

You may then enter the customer name and any notes that you would like to associate with this customer. You may also create customer auto search setting for this customer. When finished click the "Create" button.

🞾 Customer Mainter	ance				-		×
	Customer			Standards	_	_	-
Name:	My New Customer		]				
Notes:	This is our favorite customer.						_
Search Rules							
		~					
Acce	t to DeltaE: 0	Search Within Customer					
	Search dE: 0	AutoSearch					
Tolerances							
Toterances							
		~	~			$\sim$	
				Cancel		Create	



Here you will assign color standards to this project by clicking on them in the left hand "Available" column so that they are highlighted, and then clicking the arrow button to move them to the "Selected" column. You may remove colors from a project by clicking on them in the right hand "Selected" column so that they are highlighted, and then clicking the arrow button to move them back to the "Available" column. Please note that you may also double click any color to move it from the available column to selected, and vice versa.

Project	Standards
Project         andards         Available         OBakedBuff (LAM)         00% Black_Quaker Profile         100% Van_Quaker Profile         100% Valow	Selected           031FLBL2945WS0V-0000           031FLGN0354WS0D-0000           031FLR2415WS0V-0000           031PR0267CW1A-0000           031PIPR0267CW1A-0900 POST LAM           031PIR0267CW1A-5.5V POST LAM           BEBN07232M (LAM)           BECYPROVWP (UnLAM)           BEGN0350XM (LAM)

You may also enter data into the search field to help find standards.

Project  Standards  Available berry Blueberry PMS 241 C MULBERRY COLOR STD					÷	Maintenance	Project	
Standards Available berry Blueberry PMS 241 C MULBERRY COLOR STD	w	Window	Reporting	Database	PantoneLIVE™	Repository	Edit	File
Available berry Blueberry PMS 241 C MULBERRY COLOR STD		_	_	roject		_	_	
Available berry Blueberry PMS 241 C MULBERRY COLOR STD								
Available berry Blueberry PMS 241 C MULBERRY COLOR STD								
Available berry Blueberry PMS 241 C MULBERRY COLOR STD					_	rde	Standa	
Blueberry PMS 241 C MULBERRY COLOR STD								
Blueberry PMS 241 C MULBERRY COLOR STD						ble	Availa	
PMS 241 C MULBERRY COLOR STD						И	berr	
				500	no total da senta	berry	Blue	
				)	ERRY COLOR STI	241 C MULB	PMS	
PMS 241 C MULBERRY P#19					EDDV D#10	DALC MULD	DMC	



#### Editing existing customers

To edit existing customers:

- Click on Editors > Edit Customers...
- Click the name of the customer you wish to edit
- Click the "Edit" button
  - You may enter information into the search field to make it easy to find the customer that you are looking for

10		– 🗆 X
[Load Customer]		
Select a Customer	Search: Great	
Entries: 1/73	× 1	$\sim$
Linites, 1915		~
	~	~
	~ · · · · · · · · · · · · · · · · · · ·	~
	Sh	ow All
Name		
Great Lakes		
		2.1.
	Ne	ew Delete
x•rite	Clo	ose Edit

Edit any information that you desire from the Customer, and/or Standards tabs and then click the "Update" button.



# **Creating New Projects**

To configure user level access:

- Click on Editors > Edit Projects...
- Click on the "New" button

)				_		
Load Project]						
Select a Project	Search:					
Entries: 5/5		~				
		~				
		~				
		~				
			Show All			
Name			Customer			
Bold Palette						
Clear film reverse print						
Frosted Toasties						
Super Bowl Promotion						
Super Crunchy Granola						
			New	i 🗋	Delete	
				/		
🗙 x·rite						

You may then enter the project name and any notes that you would like to associate with this project. You may also create custom auto search setting for this project. When finished click the "Standards" tab.

🞾 Project Maintenand	e				-		×
	Project	_	Stand	ards	_	_	-
Name:	My New Project		]				
Notes:	This project has been created for spring promotion widget labels.						
Customer:	None ~						
	v to DeltaE: 0 Search dE: 0						
	v		~			~	
				Cancel		Create	



Here you will assign color standards to this project by clicking on them in the left hand "Available" column so that they are highlighted, and then clicking the arrow button to move them to the "Selected" column. You may remove colors from a project by clicking on them in the right hand "Selected" column so that they are highlighted, and then clicking the arrow button to move them back to the "Available" column. Please note that you may also double click any color to move it from the available column to selected, and vice versa.

Drojact	Standards
Project           andards           Available           0BakedBuff (LAM)           100% Black_Quaker Profile           100% Kagenta_Quaker Profile           100% Vellow_Quaker Profile           107C (LAM)           123Yellow.11           123YellowWP (LAM)           12_7C (LAM)           13_7C (LAM)           14_7C (LAM)           15_7C (LAM)           16_7C (LAM)           17_7C (LAM)           180 Dentastix Red (LAM) pantone           18_7C (LAM)           1_7C (LAM)           1_7C (LAM)           1_7C (LAM)           1_7C (LAM)           1_7C (LAM)           2% Magenta_Quaker Profile           2% Magenta_Quaker Profile	Selected           031FLBL2945WS0V-0000           031FLBR2415WS0V-0000           031FLPR2415WS0V-0000           031FLPR2415WS0V-0000           031PIPR0267CW1A-0900 POST LAM           031PIPR0267CW1A-0900 POST LAM           BEBN0723ZM (LAM)           BECYPROVWP (UnLAM)           BEGN0350XM (LAM)

You may also enter data into the search field to help find standards.

2	Edit	Repository	PantoneLIVE™	Database	Reporting	Window
			F	Project		
			_			
	Standa	1/15				
~						
-	Availa					
-		able				
	Availa berr	able M				
	Availa berr Blue	able yl :berry	SERRY COLOR ST			



## Editing existing projects

To edit existing projects:

- Click on Editors > Edit Projects...
- Click the name of the project you wish to edit
- Click the "Edit" button
  - You may enter information into the search field to make it easy to find the project that you are looking for

elect a Project Search:	Super			-	
	Super				
	Super				
ntries: 2/5					
nnes, 275	~				$\sim$
	~				~
	~				~
	~				$\sim$
		Show All			_
		Show All			
Name		Customer			
Super Bowl Promotion					
Super Crunchy Granola					
		New		Delete	
			-		
xrite		Close		Edit	

Edit any information that you desire from the Project and/or Standards tabs and then click the "Update" button.



# **Creating New Substrates**

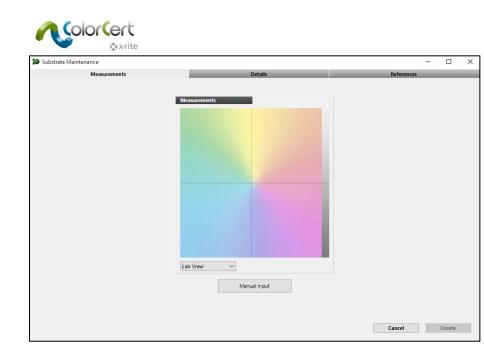
Substrates may be used to filter standards and if you have one selected, you do not need to measure the substrate to view the best match to display. The substrate is "sticky" – so if you have one selected, it will remain selected when you close and re-open the app. When you measure a substrate using the "Measure Substrate" button the measurement will only remain active for the remainder of your current session.

To create new substrates:

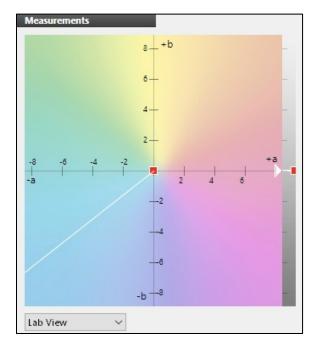
- Click on Editors > Edit Substrates...
- Click on the "New" button

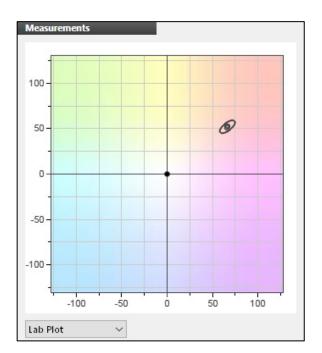
0				—		Х
[Load Substrate]		_				
Select a Substrate	с П					_
Select a Substrate	Search:					
Entries: 1/1		~				$\sim$
		~				$\sim$
		~				
		~				$\sim$
			Show All			
Name	Measurement Conditions		Time			
CCNB Algonquin	[M0] No Filter		2018-06-04 13:57	32		
		New	Load 🔻		Delete	
🖈 x rite			Close		Edit	

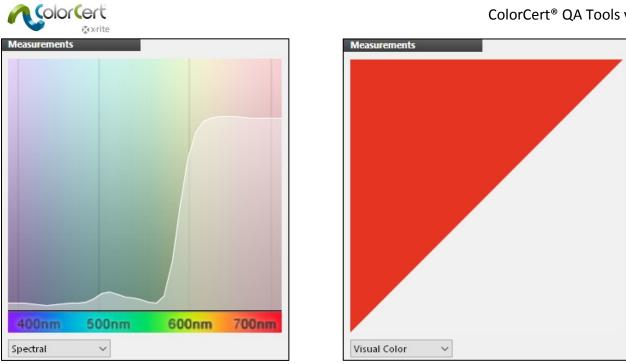
At the next screen simply use your connected spectrophotometer to measure your substrate. You may also click the "Manual Input" button to create standards by entering L\*a\*b\* or spectral data.



You may click the "Lab View" button to see various views of the standard that you have measured.







To continue, click the "Details" tab at the top of the screen.



Here we need to create a name for the substrate, and define our tolerance by selecting the tolerance method and limits in the tolerance section. You may also add any notes and/or description information that you desire.

_	Measurements	D	etails	References	_	-
Name:	My New Substrate					
Notes:	This is a representative sample o	f CCNB from the Springfield Mill				
Description:			_			
	,					
Apply addi	tional tolerance methods					
Apply addi	tional tolerance methods					
	tional tolerance methods					
	tional tolerance methods					
	tional tolerance methods	×	~		~	•
	tional tolerance methods	×	~		~	•
	tional tolerance methods	<u> </u>	~		~	•
	tional tolerance methods	×	~		~	
	tional tolerance methods	×	~		~	
	tional tolerance methods	×	~		~	•
	tional tolerance methods	×	~		~	
	tional tolerance methods	×	~		~	

At the references tab you may choose to assign this substrate to one or more projects and/or customers by selecting the plus sign in the appropriate quadrant and making a selection from your available options. You may also add tags by highlighting them in the "Available" column and then moving them to the "Selected" column using the arrow button.

Substrate Maintenance		- 🗆 ×
Measurements	Details	References
Project Super Bowl Promotion Super Crunchy Granola	Customer      Great Lakes	•
Tags           Available           00           000000000000000000000000000000000000	Selected	
		Cancel Create

Click the "Create" button to complete the process.



### Editing existing substrates

To edit existing substrates:

- Click on Editors > Edit Substrates...
- Click the name of the substrate you wish to edit
- Click the "Edit" button
  - You may enter information into the search field to make it easy to find the substrate that you are looking for

0		— D	×
[Load Substrate]			
Select a Substrate	Search: CCNB		
Entries: 1/1		~	$\sim$
Litures, iy i			~
		~	$\sim$
		~	~
		Show All	
Name	Measurement Conditions	Time	
CCNB Algonquin	[M0] No Filter	2018-06-04 13:57:32	
	New	r Load <b>v</b> Delete	
<b>X</b> ∙rite	New	r Load ▼ Delete Close Edit	

Edit any information that you desire from the Measurements, Details, and/or References tabs and then click the "Update" button.



# **Creating New Tags**

To create new tags:

- Click on Editors > Edit Tags...
- Click on the "New" button

Load Tag]	- 0	>
ielect a Tag	Search:	
ntries: 35183/35183	~	
	~	
	~ ~	
	Show All	
Name		
VISUAL MATCH		^
visual pass		
Visual Pass		
VoilaGarlicChic		
W.G.		
W07-001167		
WG Salt		
Wheat Pita		
WHEAT PITA		
White Opacity Trial		
Whole Grain		~

Enter a name for your new tag and then click the "Create" button.

64				-	- (	×
[Load Tag]	_					
Select a Tag	Search:					
Entries: 35183/35183		$\sim$				$\sim$
🞾 Tag Maintenance			-		×	~
						~
Name:	My New Tag					
Nam						
VISU		Cancel		Create		^
visua						
Visual Pass						



## **Settings configuration**

The settings configurations are found under the "Editors" button in the top right hand corner of the screen. After clicking the "Editors" button, click "Edit Defaults...".

		×
~	Editors 🗸	
	Edit Defaults	
	Edit Customers	
_	Edit Projects	
	Edit Standards	
Std.	Edit Substrates	
51.40 67.12	Edit Tags	
53 50	53.06 -0.44	

#### Permission level settings

ColorCert QA Tools has the ability to have both Admin and user level access. Admin users are required to log into the software and have access to all settings and functions within the software.

Users will only have access to those settings that you define.

By default, all users have admin level access. To configure user level access:

- Click on Editors > Edit Defaults
- Click on the "Permissions" tab

In the window that appears:

- Enter a password for the admin account, you will be required to enter the password into both open data fields
- Place a check into any check boxes for extra permissions that you would like to grant users
- Click the update button

Once you have done this, launching into the QA Tools module will bring you in at the user level.

To enter admin mode, click database in the menu bar, and then click "Admin mode". You will be promted to enter your password. To return to user mode, close and re-launch the QA Tools module.

Please keep your password safe, but also remember what you have set it to as you will need this to access functions to which users do not have access.



Defaults Mainte	nance								<u>-</u>	- 0	]	×
File Edit Reposi	ory Pantone	LIVE™ Databa	se Rep	orting Window								
	_	Defaults	_			ł	Permission	5				
								Dat	abase Vers	ion: 3.05	.00	
		Admin Password	*****	***	1							
	Reenter	Admin Password	****	- <del>***</del>								
Options Availa	ble to Everyon	2			_	_						
Defau	ts Maintenance											
Custom	er Maintenance		Delete									
Proje	ct Maintenance		Delete									
Ti	g Maintenance		Delete									
Standa	d Maintenance		Delete									
	Delete Trials	$\checkmark$										
1												
								Cancel		Upd	ate	

#### Search Default settings

When measuring colors, ColorCert QA Tools has the ability to search the database, and can auto accept a standard if it falls within a tolerance level that you define, as well as return potential color matches within a tolerance that you define. To configure these tolerance settings:

- Click on Editors > Edit Defaults
- Click on the "Defaults" tab
- Enter updated values (see example below)
- Click the update button

In the example shown below, ColorCert QA Tools will use a Delta E 2000 1:1:1 tolerance type for it searches. It will also display a list of color standards that fall within a tolerance of 5.0 from the measured trial.

Defaults Maintenance			
	Defaults		
Search Rules △E00 Accept to DeltaE: Search dE:	<ul> <li>✓ 1 1</li> <li>1.00</li> <li></li> <li></li></ul>	1 AutoSearch 🔽	
AutoSave 🗹 Average 🗔 Score:	Average Count: Warning Threshold:	0 0	Save Statistics



The value entered into the "Accept to DeltaE" field is what triggers the software to look for a different standard when measuring trials. If the Delta E of the measured trial is less than this value, then the software will continue using the same standard as previous readings. If it is outside this value then QA Tools will display a search screen displaying all standards within the "Search dE" range defined. When in project mode, if there is only one standard within the "Search dE" range then QA Tools will automatically switch to that standard. Otherwise the search screen will also appear when in project mode.

## Default Tolerance

The tolerance section is used to define the default tolerance used by ColorCert QA Tools. This tolerance is used when there is no tolerance applied to either the color standard, customer or project (see tolerance hierarchy in the next section).

This is done by selecting both a tolerance type and limit using the dropdown pick lists. ColorCert supports the use of three tolerance levels described by priority as high, medium, and low. The tolerance used is selected when creating a new standard, please see the section on creating new standards for details. In the below screen grab the default tolerance is DE2000, with a high priority limit of 2.00, medium of 3.00 and low of 4.00.

	ected Spots C in Scoring	Only		
ΔΕΟΟ	~	1	1	
High	2.00			
Medium	3.00			
Low	4.00			



## **Alternate Tolerances**

It is possible to apply alternate tolerances to a standard through the use of a project or customer.

To do so:

- Place a check in the "Apply additional tolerance methods" checkbox when creating or editing your standard
  - Note that for this to work, the standard must not have it's own tolerances, if it does they take effect due to the tolerance hierarchy

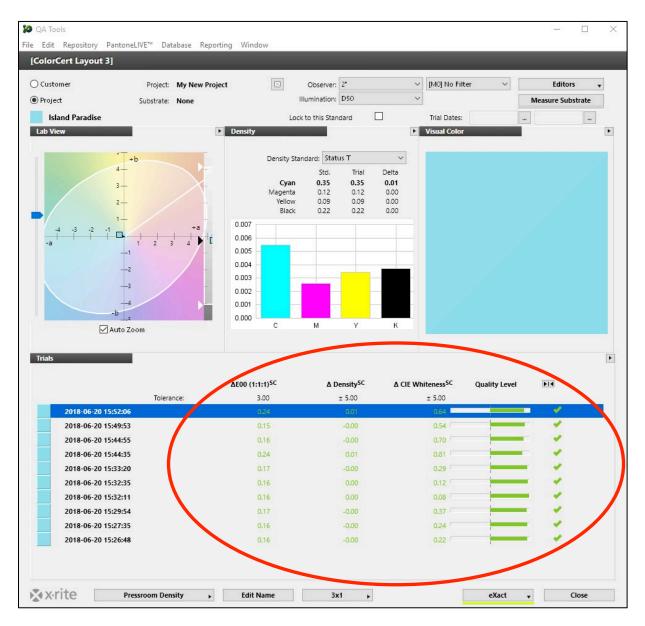
🞾 Standard Maintena									×
File Edit Repository	PantoneLIVE <sup>™</sup> Database Reportin	g Window							
	Measurements		Details		_	References	-	-	-
Name:	Island Paradise			Priority	14				
Notes:	Averaging Statistics (3 readings under t Range/StdDev. L* 0.36 / 0.15 a* 0.76 / 0.34 b* 0.10 / 0.04 C* 0.68 / 0.30 c* 0.68 / 0.30	D50/2*):							*
Description: Subol Apply addi Tolerances	ional tolerance methods	~							
	v			~				~	
						Cancel		Update	

• When creating your customer or project you may include up to 3 tolerances. To apply these tolerances to standards that have the additional tolerance methods checked, place a check in the "For Selected Spots Only" check boxes as shown below.

Edit Reposit	nance cory PantoneLIVE™	Database Reportir	ng Window				
		Project			Standards	_	-
Nar		:					
Custom Gearch Rules	er: None		v				
olerances	Accept to Del Search						
	For Selected Spots ( Include in Scoring	0nly	✓ For Selected S ☐ Include in Sco △ Density	rin a	✓ For Selected Spots     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓     ✓	Only	~
	High 2.00		High ± 5.	0	High ± 5.00		



When this standard is assigned to this project, the alternate tolerance information will appear in the Trials with Delta window.





## **Tolerance Hierarchy**

As there are several places where a tolerance may be assigned, ColorCert QA Tools follows a specific hierarchy when choosing the appropriate tolerance to use. Tolerances will be used in the following order.

- 1. If the color standard has a tolerance assigned to it, this is the tolerance that will be used. If there is no tolerance assigned to the standard being used, then . . .
- 2. If the standard is assigned to a customer, and that customer has a tolerance assigned to it, then this is the tolerance that will be used. If neither the standard or the customer have tolerances assigned to them then . . .
- 3. If the standard is assigned to a project, and that project has a tolerance assigned to it, then this is the tolerance that will be used. If neither the standard, the customer, or the project have tolerances assigned to them then . . .
- 4. The system default tolerance will be used.



## Mass Edit

Should the need arise to make edits to multiple standards, for example we may have a customer that changes the tolerance that we are to use you may do so using the following method:

• Click the "Editors" button and then click "Edit Standards"

At this point we can select multiple standards from the list.

- You may click one color then click another color while holding the shift key to select a range of colors, or
- You may press and hold the Control (Ctrl) key to highlight multiple non consecutive colors

You may also use a Customer, Project, Substrate, or Tag as a filer. For our example lets select a customer as shown below

Once we have done so we can quickly select all of the standards by using the methods above, or to quickly grab them all we can highlight one and then enter Ctrl A, this selects them all.

oad Standard]						
lect a Standard		Search:				
ries: 4/6026			Customer	~	My New Customer	
				~		
				~		
				~		
					Show All	
Name	Substrate	Measurement (	Conditions		Time	
Blueberry	Uncoated Bond	[M0] No Filter			2018-06-20 08:41	:48
Island Paradise	BC	[M0] No Filter			2018-06-20 15:21	:38
Process Magenta	Uncoated Bond	[M0] No Filter			2018-06-20 08:44	:54
Process Yellow	Uncoated Bond	[M0] No Filter			2018-06-20 08:44	:08
			New		Load 🔻	Delete

• Click the "Edit" button

Any edits made at this point will be applied to all of the standards selected.



## **Exporting Data**

#### Export to a data file

Both target and trial data may easily be exported from ColorCert QA Tools. To do so right click on a trial and then choose your export option.

- Single standards or trials may be exported as either CxF of MIF files
- Sets that include all standards or all trials may be exported as CxF files

QA To	ools														×
Edit	t Databas	se Reporting	g Window												
olo	rCert Lay	out 2]													
) Cust	tomer		Customer:	None			Observer:	2°		✓ [M0] No	Filter	~	Edito	rs -	•
) Proj	ect		Substrate:	None			Illumination:	A		~		м	easure Sub	ostrate	
н	lappy Sun	set					Lock to this Star	ndard		Trial Da	tes:				
Trials	195559						E La								F
		<b>G</b> 14	Trial	Dalla				2.1389.BC-71	_						
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#### Export to InkFormulation

If you are using X-Rite Ink Formulation software (IFS) you may also export directly from QA Tools to IFS by right clicking a sample and choosing "Export to InkFormulation". Doing so sends both the standard and the sample directly to IFS where an ink technician may make an ink correction if necessary.

To allow this both ColorCert and IFS must have their preferences set to connect to the same folders. In ColorCert this is done at the "Add-Ons" tab within the preferences.

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When data is sent to IFS using this function in QA Tools, a notification will appear in the icon bar of IFS alerting the ink technician that there is an issue.

It is also possible for the ink technician to transfer measurement data from IFS directly to ColorCert in a similar manner. This data can then be used to create standards using the "Load from CxF Library" option in the Standards editor.

#### **Deleting Trials**

Trials may be deleted by right clicking them, and then selecting "Remove". This is also seen in the image on the previous page.

#### Reports

Reports may be generated to show exactly what appears on screen. To do so:

- Click on "Reporting" in the menu bar, then click "Print Screen"
- This will create a PDF file of whatever appears on the screen at the time, this may be save as a file or printed as required

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ColorCert QA Tools provides full support for PantoneLIVE workflows. Please note that the use of PantoneLIVE dependent libraries requires an active PantoneLIVE license. Even if standards are created using a valid license, these standards will expire 30 days after your PantoneLIVE license is allowed to expire. Please see your local sales rep for details.

The following PantoneLIVE Libraries are available for your use free of charge without a license:

- Extended Gamut Coated M0, M1, M3
- Pastels & Neons Coated M0, M1, M3
- Pastels & Neons Uncoated M0, M1, M3
- Solid Coated V3 M0, M1, M3
- Solid Uncoated V3 M0, M1, M3

To create a new standard using PantoneLIVE:

- Click the "Editors" button and then click "Edit Standards"
- Click "Load" and then Click "Load from PantoneLIVE"

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File Edit	lit Database	Reporting	Window					
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						Load from CxF Lib		
						Load from MIF Lib		
						Load from XTF Lib		
						Load from Panton	eLIVE™	



You may then double click any PantoneLIVE color to select it.

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PBrightGreenC GVCV PBrightOrangeC GVCV	Standard	[M0] No Filter	SpectroEye		TwoDegree	D50	
			SpectroEye SpectroEye		TwoDegree TwoDegree	D50 D50	
PBrightOrangeC GVCV	Standard	[M0] No Filter			-		1
PBrightOrangeC GVCV PBrightRedC GVCV	Standard Standard	[M0] No Filter [M0] No Filter	SpectroEye		TwoDegree	D50	
PBrightOrangeC GVCV PBrightRedC GVCV PDarkBlueC GVCV	Standard Standard Standard Standard	[M0] No Filter [M0] No Filter [M0] No Filter	SpectroEye SpectroEye		TwoDegree TwoDegree	D50 D50	
PBrightOrangeC GVCV PBrightRedC GVCV PDarkBlueC GVCV PMediumBlueC GVCV	Standard Standard Standard Standard Standard	[M0] No Filter [M0] No Filter [M0] No Filter [M0] No Filter	SpectroEye SpectroEye SpectroEye		TwoDegree TwoDegree TwoDegree	D50 D50 D50	
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PBrightOrangeC GVCV PBrightRedC GVCV PDarkBlueC GVCV PMediumBlueC GVCV PMediumPurpleC GVCV PMediumYellowC GVCV	Standard Standard Standard Standard Standard Standard	[M0] No Filter [M0] No Filter [M0] No Filter [M0] No Filter [M0] No Filter [M0] No Filter	SpectroEye SpectroEye SpectroEye SpectroEye SpectroEye		TwoDegree TwoDegree TwoDegree TwoDegree TwoDegree	D50 D50 D50 D50 D50 D50 D50	~

From here you may follow the instructions in the "Creating New Color Standards" section to finish the process.

#### **Creating multiple standards**

When using PantoneLIVE libraries to create new standards, it is possible to create multiple standards in one operation.

To do so:

- Click the "Editors" button and then click "Edit Standards"
- Click "Load" and then Click "Load from PantoneLIVE" as shown above.
- Single click any color you wish to use as a standard to highlight it
- You may then click another color while holding the shift key to select a range of PantoneLIVE colors, or
- You may press and hold the Control (Ctrl) key to highlight multiple non consecutive PantoneLIVE colors

In the example below we are creating 6 standards at one time



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	PBrightRedC GVWF PDarkBlueC GVWF PMediumBlueC GVWF PMediumPurpleC GVWF PMediumYellowC GVWF	Standard Standard Standard Standard Standard	[M0] No Filter [M0] No Filter [M0] No Filter [M0] No Filter [M0] No Filter	SpectroEye SpectroEye SpectroEye SpectroEye SpectroEye		TwoDegree TwoDegree TwoDegree TwoDegree TwoDegree	D50 D50 D50 D50 D50	
	PBrightRedC GVWF PDarkBlueC GVWF PMediumBlueC GVWF PMediumPurpleC GVWF PMediumYellowC GVWF PNeutralBlackC GVWF	Standard Standard Standard Standard Standard Standard	[M0] No Filter [M0] No Filter [M0] No Filter [M0] No Filter [M0] No Filter [M0] No Filter	SpectroEye SpectroEye SpectroEye SpectroEye SpectroEye SpectroEye		TwoDegree TwoDegree TwoDegree TwoDegree TwoDegree TwoDegree	D50 D50 D50 D50 D50 D50	
	PBrightRedC GVWF PDarkBlueC GVWF PMediumBlueC GVWF PMediumPurpleC GVWF PMediumYellowC GVWF PNeutralBlackC GVWF PPinkC GVWF	Standard Standard Standard Standard Standard Standard Standard	[M0] No Filter [M0] No Filter [M0] No Filter [M0] No Filter [M0] No Filter [M0] No Filter [M0] No Filter	SpectroEye SpectroEye SpectroEye SpectroEye SpectroEye SpectroEye SpectroEye		TwoDegree TwoDegree TwoDegree TwoDegree TwoDegree TwoDegree TwoDegree	D50 D50 D50 D50 D50 D50 D50	
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	PBrightRedC GVWF PDarkBlueC GVWF PMediumBlueC GVWF PMediumPurpleC GVWF PMediumYellowC GVWF PNinkC GVWF PStrongRedC GVWF PYellow012C GVWF	Standard Standard Standard Standard Standard Standard Standard Standard	[M0] No Filter [M0] No Filter	SpectroEye SpectroEye SpectroEye SpectroEye SpectroEye SpectroEye SpectroEye SpectroEye SpectroEye		TwoDegree TwoDegree TwoDegree TwoDegree TwoDegree TwoDegree TwoDegree TwoDegree TwoDegree TwoDegree	D50 D50 D50 D50 D50 D50 D50 D50 D50 D50	~

• Click the Select button to continue

At the details screen the name will simply state multiple, as we are creating multiple standards. The names will be the same as the PantoneLIVE names.

10	Standa	rd Maintenan	ce				
File	Edit	Repository	PantoneLIVE™	Database	Reporting	Window	
	_		Measurements	_			Details
		Name: Notes:	Multiple				

We may assign all of these new standards to a common substrate, tolerance, customer, project, and or tags.



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	Measurements	ſ	Details		References	_	_	
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Notes:								
Description:								
Substrate:	Uncoated Bond	~						
Apply addit	tional tolerance methods							
Tolerances ΔE cmc Tolerance	dude in Scoring			~			~	

Edit Repositor	y PantoneLIVE™	Database R	eporting	window			_			
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roject					1	Customer				
Bright Colors					+	Ruby Graphics				•
ags										
ags Available	_					Selected COATED				



## Adding substrates from PantoneLIVE libraries

Substrates may also be added from PantoneLIVE libraries.

To create a new substrates using PantoneLIVE:

- Click the "Editors" button and then click "Edit Substrates"
- Click "Load" and then Click "Load Substrate from PantoneLIVE"

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File Edit Repository PantoneLIVE™ Database Reporting	Window		
[Load Substrate]	_		
Select a Substrate Search	h:		
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		-	~
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		Show All	
Name Measurement Condition	IS	Time	
[	New	Load 🔻	Delete
x•rite			 from ColorCert® Library
		Load Substrate	from PantoneLIVE™



- Select the library from which you wish to use the substrate
- Highlight any color in the library, it does not matter which because QA Tools is only pulling the substrate information which will be the same for all colors in a given library
- Click the "Select" button

Flexibles Gravure Solv Wht Film

ile E	dit Repository	PantoneLIVE™	Database Repo	orting Windov	V			
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ANT					~			
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	Name	Туре	Filter	Device Mode	Device SN#	Observer	Illumination	
	PBrightGreenC GVW	F Standard	[M0] No Filter	SpectroEye		TwoDegree	D50	^
	PBrightOrangeC GV	WF Standard	[M0] No Filter	SpectroEye		TwoDegree	D50	
	PBrightRedC GVWF	Standard	[M0] No Filter	SpectroEye		TwoDegree	D50	
	PDarkBlueC GVWF	Standard	[M0] No Filter	SpectroEye		TwoDegree	D50	
	PMediumBlueC GVW	VF Standard	[M0] No Filter	SpectroEye		TwoDegree	D50	
	PMediumPurpleC G	VWF Standard	[M0] No Filter	SpectroEye		TwoDegree	D50	
	PMediumYellowC G	/WF Standard	[M0] No Filter	SpectroEye		TwoDegree	D50	
	PNeutralBlackC GVW	VF Standard	[M0] No Filter	SpectroEye		TwoDegree	D50	
<		C	13 403 MIL 1944-4	Canadaa C		T	2050	
2040	colors			Flex	ibles Gravure Solv <sup>v</sup>	Wht Film		~
				8.				
X	x∙rite				Can	cel	Select	

- You may add any notes, descriptions, or tolerances that you wish, and you may assign this substrate to projects and customers as with any other substrate standard
- You cannot change the name because QA Tools will use the name assigned in the PantoneLIVE library
- When you are finished click the Create button

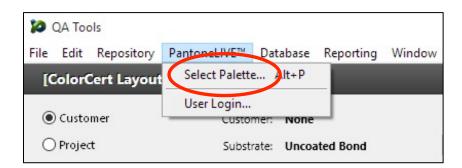


# **Selecting PantoneLIVE Palettes**

If you need to select a different dependent or master library, simply click on the dropdown list below the color selection. This will display a list of all libraries that you have downloaded for use.

			-		_	_	
2			Search:				
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ame	Туре	Filter	Device Model	Device SN#	Observer	Illumination	
BrightGreenC GVCV	Standard	[M0] No Filter	SpectroEye		TwoDegree	D50	^
BrightOrangeC GVCV	Standard	[M0] No Filter	SpectroEye		TwoDegree	D50	
BrightRedC GVCV	Standard	[M0] No Filter	SpectroEye		TwoDegree	D50	
DarkBlueC GVCV	Standard	[M0] No Filter	SpectroEye		TwoDegree	D50	
MediumBlueC GVCV	Standard	[M0] No Filter	SpectroEye		TwoDegree	D50	
MediumPurpleC GVCV	Standard	[M0] No Filter	SpectroEye		TwoDegree	D50	
MediumYellowC GVCV	Standard	[M0] No Filter	SpectroEye		TwoDegree	D50	
eutralBlackC GVCV	Standard	[M0] No Filter	SpectroEye		TwoDegree	D50	
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If you need to download additional palettes, you may do so by clicking PantoneLIVE in the menu bar at the top of the screen, and then clicking Select Palette.





#### This will return a list of all available master and dependent PantoneLIVE libraries.

antoneLIVE™ Palette Picker]				
Entries: 48	Search:			
Internet Anthen Inchemical				Show All
lame	Brand	Created	Status	Substrate
Carton Flexo Solv Virgin Carton Board V	Pantone	2013-02-13	Live	Virgin Carton Board V
Carton Flexo UV Recycled Board V	Pantone	2018-04-04	Live	Recycled Carton Board V
Carton Offset Recycled Carton Board V	Pantone	2012-02-15	Live	Recycled Carton Board V
Carton Offset UV Recycled Carton Board V	Pantone	2013-02-18	Live	Recycled Carton Board V
Carton Offset UV Virgin Carton Board V	Pantone	2013-02-22	Live	Virgin Carton Board V
Carton Offset Virgin Carton Board V	Pantone	2013-02-22	Live	Virgin Carton Board V
Flexibles Flexo Solv (H) Wht Film	Pantone	2012-02-15	Live	Wht Film
Flexibles Flexo Solv Rev/Clr Film	Pantone	2013-02-08	Live	Rev/Clr Film
Flexibles Flexo Solv Rev/Clr Film Lam Clr Film L	Pantone	2013-02-13	Live	Rev/Clr Film Lam Clr Film L
Flexibles Flexo Solv Rev/Clr Film Lam Wht Film L	Pantone	2013-02-13	Live	Rev/CIr Film Lam Wht Film L
Flexibles Flexo Solv Rev/Clr Film/Wht Ink	Pantone	2013-02-08	Live	Rev/Clr Film/Wht Ink
Flexibles Flexo Solv Wht Film	Pantone	2012-02-15	Live	Wht Film
Flexibles Gravure Solv Aluminum/Wht Ink V	Pantone	2016-12-08	Live	Aluminum/Wht Ink V
Flexibles Gravure Solv Clr Film V	Pantone	2016-12-08	Live	Cir Film V
Flexibles Gravure Solv CIr Film/Wht Ink V	Pantone	2016-12-08	Live	Clr Film/Wht Ink V
Flexibles Gravure Solv Rev/Clr Film Lam Clr Film L	Pantone	2013-02-18	Live	Rev/Clr Film Lam Clr Film L
Flexibles Gravure Solv Rev/Clr Film Lam Wht Film L	Pantone	2013-02-18	Live	Rev/Clr Film Lam Wht Film L
Flexibles Gravure Solv Rev/Clr Film/Wht Ink	Pantone	2016-12-08	Live	Rev/Clr Film/Wht Ink
Flexibles Gravure Solv Rev/Clr Film/Wht Ink Aluminum L	Pantone	2016-12-08	Live	Rev/Clr Film/Wht Ink Alumin
Flexibles Gravure Solv Wht Film	Pantone	2012-02-15	Live	Wht Film
Label Flexo UV Aluminum/Wht Ink V	Pantone	2018-04-04	Live	Aluminum/Wht Ink V
Label Flexo UV Cir Film V	Pantone	2018-04-04	Live	Cir Film V
Label Flexo UV Cir Film/Wht Ink V	Pantone	2018-04-04	Live	Cir Film/Wht Ink V
Label Flexo UV Coated Paper V	Pantone	2013-02-24	Live	Coated Paper V
Label Flexo UV Rev/Clr Film	Pantone	2018-04-04	Live	Rev/Clr Film
Label Flexo UV Rev/Clr Film/Wht Ink	Pantone	2018-04-04	Live	Rev/Cir Film/Wht Ink
Label Flexo UV Wht Film	Pantone	2013-02-24	Live	Wht Film
Label Gravure Solv Coated Paper V	Pantone	2016-12-08	Live	Coated Paper V
Label Offset Coated Paper V	Pantone	2013-02-13	Live	Coated Paper V
Label Offset UV Coated Paper V	Pantone	2013-02-21	Live	Coated Paper V
Munsell Measurement Backing (PLV-N925)	Pantone	2013-10-24	Live	n/a
PANTONE SkinTone™ Guide	Pantone	2012-09-20	Live	n/a
PANTONE+ Coated Master	Pantone	2012-02-15	Live	n/a
				>



# **Getting Help: Remote Assistance**

If you require support for your ColorCert application, use the Contact button to locate the support phone number for your region. Your X-Rite support technician may ask to have access to your computer system to diagnose the problems. Team Viewer is installed automatically when you install ColorCert.

- To launch TeamViewerQS go to:
  - Windows: C:\Program Files (x86)\X-Rite\ColorCert\Teamview QS
  - Mac: /Applications/ColorCert/TeamViewer\_QS
- To grant remote access to your windows computer, quote the ID that pops up to the ColorCert service engineer.
- You can terminate a session at any time by closing the Teamviewer client application.

# **Terminology**

- PantoneLIVE: A cloud-based spectral color platform that enables sharing of digital standards globally.
- Application: Applications are created by merging Rules and Profiles. These can be saved and reloaded into Jobs.
- Job: Jobs are used during production and QC to measure, monitor and report on the color and print quality of each press run. Jobs are based on the applications that include the targets set in the Profiles, and the tolerances set in the Rules.
- Metadata: Additional Information about the Job, the Separator or Printer as well as Press Setup Details you want to capture in a ColorCert job.
- Rules: Rules define the range of tolerances that are applied to certain types of work. For example, you may
  have a set of Rules that is used for your shop's general CMYK Process Color work. You may have another set of
  Rules that contain the specific tolerances and requirements that are defined by a Brand Owner for print
  production. You may also have different set of Rules designed around the capabilities and expectations of a
  type of press.
- Profiles: Profiles contain all of the specific colors that will be measured. These can be a set of CMYK Process
  Colors and a Substrate that is used in general production, or you may have a set of Rules for production of
  many different Jobs that share the same specific set of Brand Colors on the same Substrate. A set of Rules may
  also be created for a single specific Job.
- Measurement Condition: Settings for your Spectrophotometer for the Measurement Mode (or Filter) as well as the Illumination and Observer. For Example M0 D50/2°.
- Scorecard: Scorecards are generated from Jobs based on the weighted scores of print quality in several selected areas, as defined by the Rules and Profiles, to generate an overall Job Score. This gives the Production Team, Supervisors, and Brand Owners a simple way to evaluate the overall quality of the Job, and shows areas to focus on for improvement.