### Color and Proofing 18.1

What is new

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#### Lean Profiling – profile without going on press!





#### Why?

- You need to change the ink (eg different supplier, slightly different hue)
- The press or plate conditions changed (anilox, density, dot gain..)
- You want to use a different ink in the profile for example Warm Red instead of Magenta because you have a batch of jobs using Warm Red
- You could go on press and make a new profile, but this takes time and money. Sometimes you simply don't have the time



#### **Lean Profiling - How does it work?**

- Take any press profile and replace the ink(s) with new inks<sup>†</sup>
- New inks can be defined in three ways:
  - > Set the Lab value
  - Measure a solid patch
  - Use an ink profile (ink plus tints)
- Use the new profile in any or all of:
  - Proofing
  - Equinox
  - Automation Engine..

†Note: you can only replace an ink with one of a "similar" color – for example changing Magenta to a Red or Orange. You cannot change Magenta into a Green for example

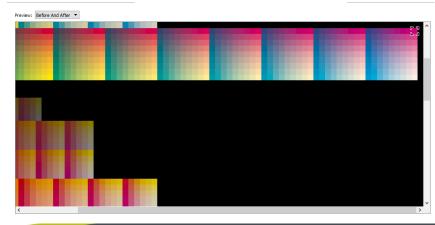


#### Change the Lab / LCh values:

Current New							
L:	52.2	52.2					
a:	74.9	74.9					
b:	-2.6	-2.6					
C:	74.9	74.9					
h:	358.0°	358.0° 🕏					
☐ Difference							



ΔE: 0.03





#### **Lean Profiling – How accurate is it?**

- The more data you have, the better..
- But acquiring the data takes time
  - Or sometimes it just isn't available
- Lean Profiling makes the best use of the data provided
  - And you can make the tradeoff
  - And the result is surely much better than not adjusting the profile at all!





## Color preflight – now available with a standard workflow

Rapid, best practice deployment! Detailed PDF and XML report

#### **Automation Engine Color Preflight**











- Select optimum production method (EPM, CMYK...) while meeting color expectations
- Guaranteed match between estimation and execution
  - Color system used for estimation and production is the same !!



# Color Preflight Report

ESKO

**PDF** report

File Name 01\_Red Wine Front.pdf

Date 29/01/2019

Varnish

Zovis Wines

2012
Wallan-Victoria
Pinot Noir





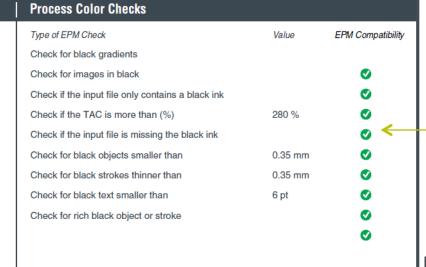


Check the **Process Color Checks** table on this page and the **Spot Color Conversion** table on page 2 for more info.

	Ink Name	,	Ink Book	Type of El	PM
ĺ	Input Inks			Process	s (
	Press	HP Indigo WS6800			
	Substrate	PE-WHITE			
	Time	16:41			

Pantone C

<unregistered>



"Traffic light" indication of best ink set(s)

Analysis check details



### PDF report includes spot color details

oot Color Conversio							Dona E E	000 - Tolera	
Ink Name	Ink Set	dE	% C	% M	%Y	%K	%O	%G	%V
348	CMY	0.09	0.973	0.259	0.969	-	-	-	-
	CMYK	0.12	0.965	0.220	0.961	0.000	-	-	-
	CMYKOGV	0.12	0.000	0.000	0.706	0.451	0.000	0.000	0.96
375	CMY	5.77	0.447	0.000	1.000	-	-	-	-
	CMYK	6.22	0.471	0.000	1.000	0.000	-	-	-
	CMYKOGV	3.32	0.000	0.000	1.000	0.000	0.000	0.000	0.56
389	CMY	3.89	0.153	0.000	1.000	-	-	-	-
	CMYK	3.63	0.149	0.000	1.000	0.000	-	-	-
	CMYKOGV	2.01	0.000	0.000	1.000	0.000	0.000	0.000	0.23

Detailed feedback on which job spot colors pass the gamut check,  $\Delta E$  values and color builds



#### Using the Epson S80600 in Pack Proof

- Solvent ink proofer prints on wide variety of substrates
- Ideal for proofing labels and flexible packaging with a white ink underprint
- Color gamut around 90% of Pantone book
  - Depending on substrate
  - Epson P-series gives a larger gamut, but it only prints on paper
- White ink support
- Metallic ink support

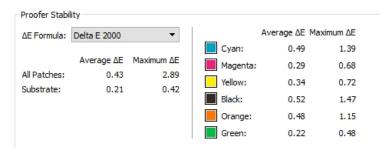






#### **Superior quality control**

- Device stability check for proofers and digital presses
  - Automatically adds extra patches to chart
  - Intelligently measures stability
  - Know what your device is capable of
  - > Sets correct expectations on accuracy
- Proofing Strategy Check
  - End to end color accuracy report
  - Overall dashboard and detailed statistics
  - > (New) export a report
  - Store the report as part of your QC workflow



To check the proofer's stability, some patches are proofed several times across the overprint chart of the expected color difference when proofing and measuring the same ink values multiple times.

```
Date: Monday, Petronty 4, 2019 10:11:10 Res | Date: Monday, Petronty 4, 2019 10:11:11 Res | Date: Monday, Petronty 4, 2019 10:11 Res | Date: Mon
```



#### Other value-added features

- Overprint Charts update
  - Create charts for any M mode
- Measurement in manual patch mode
  - When you know manual mode is needed
- Digital Printing strategy: Add Exceptions to Ink Book
  - > Create an ink book of device-dependent references
- Set ΔE formula for digital printing strategies
  - Use your choice of formula when calculating spot color builds
- Edit profiled inks
- And many more...

