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ICC_Normalize application brief user's Guide

Creating, normalizing, and communicating your CMYK or N-Colors printing standards using ProfileMaker and free Colorsource ICC_Normalize application.

Colorsource ICC_Normalize application Normalisez et publiez vos configurations d'impression Normalize and publish all your print configurations



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ICC_Normalize

CMYK_Print_&_Proof

PLATE

MagicPress

MagicPrepress

SPOT_Color_Manager













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Why do you need ICC_Normalize application?

Colorsource free **ICC_Normalize** application allows you optimizing the standardization process of all the CMYK and N-Colors print standards you need creating for running your repro and/or print business.

Sometimes you do not need using our ICC_Normalize application, because you do not need creating your own print standard:

For classic CMYK publishing applications on standard medias, you do not need creating new print standards because ISO12647-2-3 and 4 print standards offer you a whole set of standard press characterization files (i.e., a whole set of standard CMYK ICC profiles). In this case, Colorsource **MagicPress** and **MagicPrepress** applications allow you very easy and fast press settings for matching any of the existing ISO standards by appropriate printing forms and press adjustments.

But in **ALL OTHER CASES** (~99% of packaging applications, plus most of high-end publishing applications), you DO NEED creating your own print standards, so that you should use our free **ICC_Normalize** application in order to optimize, document, record and communicate your own print standards.

A few examples:

- When using CMYK flexographic printing, ISO12647-6 give you the target solid colors and TVI curves for setting your press, and Colorsource press setting applications allow you setting your press easily. But once this is done, you still need computing your flexographic press CMYK ICC profile and publishing this specific flexographic CMYK print standard.

- For any N-Colors printing configuration with or without a CMYK base, Colorsource press setting software allows you as well setting your press easily for matching any set of target colors and TVI curves. But once this is done, you still need computing and publishing your press N-Colors ICC profile and publishing this new print standard specifications.

Why do you need using ProfileMaker?

If you are a repro or a print house, you need ProfileMaker because it is still the best and most flexible and opened color management software you can use in repro and print industries!

When using non-CMYK inks, not only ProfileMaker can make use of PANTONE inks, but also it can use any kind of non-PANTONE special ink, while more and more modern software are locked and try driving the whole Packaging market to bad proprietary solutions using uselessly expensive and locked measurement instruments.

Without much success, because all ProfileMaker users would never move to these kinds of solutions, and don't need to move because ProfileMaker is a very opened and flexible software! Do not trade in your ProfileMaker software and get trapped!

How to create a new print standard?

A properly made ICC profile characterizing your print configuration and containing your press spectral characterization file, is the best way for documenting any print standard, because this ICC profile contains a large part of the information you need when you need adjusting a press for matching this ICC profile.

Of course, using this ICC profile for repro work is only valid for print runs where the press is set in the same conditions where this ICC profile has been established.

So that before computing any ICC profile characterizing any new print standard, you first need fixing intelligently all your press setting parameters, and then recording, storing and publishing these parameters.

Here again, Colorsource press setting applications not only allow you matching the existing print standards such as ISO 12647-x CMYK standards, but also, they allow you creating your own CMYK or N-Colors print standards when it comes to optimizing your printing forms and press adjustments by:

- Fixing smartly your standard target solid colors, in order to get the best possible color gamut while maintaining high enough print contrast.

- Fixing smartly your standard target TVI curves and compute the appropriate printing forms gravure correction curves.

Of course, if you can properly optimize your press density settings without using the Colorsource dedicated software, our free **ICC_Normalize** applications will still perfectly work for you. But you should really take the time for testing Colorsource press setting applications, because they make your press setting optimization job very easy, fast and accurate, and for a very low cost.

When your press is set properly for matching your target colors and TVI curves, you can retain a few good copies matching your new print standard and then measure spectrally the press characterization CMYK or N-Colors chart on each copy, **and then average a few press characterizations spectral measurement files** using MeasureTool.

You can now compute your press CMYK or N-Colors ICC profile using ProfileMaker, which we will name the "RAW standard ICC profile".

And now is the time for using your free **ICC_Normalize** application.

The role of ICC_Normalize application:

Because you have set your press matching your new standard target TVI curves, your press spectral characterization measurement file, and consequently your "**RAW standard ICC profile**", should contain exactly these target TVI curves.

But in real world, you will always find small differences between your standard target TVI curves and the TVI curves of your average press spectral characterization file.

This means that your "**RAW standard ICC profile**" does not characterize your press matching your ideal new print standard TVI curves: This RAW ICC profile is describing a press matching the TVI curves found in this profile, which are slightly different from the ideal standard target TVI curves you initially aimed at.

But no problem: Your ICC_Normalize application allows you opening your press characterization spectral measurement file, and then computing the ideal press ICC profile you would have got if your reference test print run would have perfectly matched your target TVI curves.

This allows you keeping your standard target TVI curves unchanged, and by the way it minimizes the color dispersions of all future production print runs that will aim at your new standard ideal specifications.

ICC_Normalize application allows you as well documenting your new standard with ALL important press configuration details including:

- Customer, media and products information,
- Measurement conditions,
- Target inks colors and spectral data,
- Inks draw down Lab colors at x%
- Target TVI curves,
- Inks superimpositions of interest,
- Inks print sequence (color sequence), screen angles and screening characteristics,
- Spectral data of inks and media for the ink formulation,

- Inks and media spectral data you can use with **SPOT_Color_Manager** application for inks quality control at reception (i.e., BEFORE you install any ink on your press!)

- Typical control bar for press setting and proof and print control.

Many of above data can be easily exported as MeasureTool, Colorlab and ProfileMaker compatible CGATS text files.

These data can as well be exported as a final single Excel sheet that you can store and send by e-mail to all your Partners. This sheet can as well print as a single A4 page. Moreover, its data can be used by simple cut and paste to Colorsource inks quality control and press setting applications for subsequent production print runs that need matching your new standard.

ICC_Normalize application practical use:

Press_characterization_file tab:

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Allows you opening any CMYK or N-Colors press characterization text file you have measured using MeasureTool. You should first average a few measurement files of a few charts using MeasureTool. Your chart can contain approx. 4500 patches, but do not use uselessly large charts for characterizing your presses: It is much better measuring smaller charts on many good copies and averaging these measurement files.

You can open any press characterization file using between 2 and 10 inks.

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LGOMCCHANNELI	ikName = 'Sun-Mag	enta_018	InkSampl	e = '[0.07	08,0.1077	,0.1598,0.	1985,0.2	127,0.224	3,0.2375,	0.2412,0.	2250,0.19	50,0.1640	,0.1373,0	.1123,0.0	868,0.065	6,0.0540,	0.0495,0.0)435,0.034	49,0.0310,
LGOMCCHANNELI	nkName = 'Sun-Yelle	ow_024' In	ikSample :	= '[0.1158	3,0.1102,0	.0967,0.07	83,0.061	9,0.0528,0	0.0482,0.0	0488,0.05	72,0.064	1,0.0720,0	.1125,0.2	488,0.513	0,0.7424,	0.8413,0.8	8752,0.89	11,0.8980,	0.9069,0.
LGOMCCHANNELI	nkName = 'Sun-Blac	k_032' Ink	Sample =	[0.0130,0).0149,0.0	0149,0.016	7,0.0175	,0.0183,0.	0191,0.02	200,0.021	0,0.0214,	0.0217,0.0	0219,0.02	21,0.0220	,0.0215,0	.0212,0.02	207,0.019	o,0.0182,0	.0178,0.0
LGOMCCHANNELI	KName = Sun-Gree	en_nexa: Ir	nksample	= [0.0306	5,0.0357,0	0.0417,0.04	191,0.058	3,0.0713,	0.0896,0.	1198,0.16	941,0.224	3,0.3052,0	0.4174,0.5	438,0.62:	39,0.6318,	,0.5952,0.	5356,0.45	90,0.3737	,0.2909,0.
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2 A	2 38.74	49.72	24.22	88.07	0	0	0	0.0225	0.0256	0.0288	0.032	0.0363	0.0384	0.0385	0.038	0.0372	0.0361	0.0348	0.0341
3 A	3 61.16	100	0	2.37	0	94.4	0	0.0387	0.0637	0.0887	0.1142	0.1442	0.1651	0.1634	0.1482	0.1256	0.1011	0.0759	0.0541
4 A	4 0	87.88	100	0	0	0	87.28	0.0201	0.0189	0.0177	0.0164	0.0156	0.014	0.0136	0.0135	0.0136	0.0136	0.0139	0.0153
5 A	5 73.63	91.08	10.11	70.03	0	1.71	0	0.0266	0.0361	0.0457	0.0553	0.0671	0.0747	0.075	0.0716	0.0658	0.0587	0.0511	0.0443
6 A	6 17.33	100	93.98	75.67	0	0	54.09	0.0157	0.0149	0.014	0.0131	0.0124	0.0113	0.0113	0.0115	0.0118	0.0119	0.0123	0.014
7 A	7 0	0	0	0	58.17	0	0	0.0663	0.1154	0.1648	0.215	0.2736	0.3148	0.326	0.3485	0.3817	0.427	0.5019	0.6178
8 A	8 0	60.18	0	0	0	1.71	17.29	0.0851	0.1406	0.1965	0.2532	0.3204	0.3664	0.3573	0.3385	0.3176	0.2953	0.2719	0.2517
9 A	9 0	0	0	0	78.1	0	0	0.0495	0.0781	0.1069	0.1361	0.1705	0.1942	0.2072	0.2327	0.2687	0.3187	0.4031	0.5382
10 A	10 15.63	0	84.93	60.02	8.6	0	0	0.0348	0.0365	0.0383	0.04	0.0432	0.0436	0.0438	0.0473	0.0532	0.0586	0.0688	0.0968
11 A	11 82.92	36.43	9.73	75.67	0	0	0	0.0247	0.0369	0.0492	0.0616	0.0765	0.0865	0.0892	0.0899	0.0888	0.0866	0.0837	0.0813

ICC_Profile_TVI_Normalization tab:

This tab displays each ink TVI curves of your CMYK or N-Colors press characterization file and allows you declaring each corresponding ideal target TVI curve.

You can choose in the list of all ISO12647-x standard target TVI curves, plus a list of 10 custom target TVI curves named **Custom_1** to **Custom_10** you can set in the **Custom_TVI** tab.

You can use the tab key of your keyboard for navigating in this menu.

If negative gradations are detected they are corrected. But perfect ink key setting should avoid this problem when offset printing.

Once you have declared your official standard ideal target TVI curves, you can press the Export button in order to save the text file that will allow you editing the "**RAW press ICC profile**" TVI curves in order they perfectly match the ideal standard target TVI curves you have declared here.

You will find the practical details about how to use this profile normalization text file with ProfileMaker ProfileEditor module in order to produce your **Normalized standard CMYK or N-colors ICC profile** at the end of this document.

Print_standard_Specifications tab:

This is where you should input all the technical details about your new print standard.

You should take the necessary time to input ALL relevant details, because you or your partners will need all these details for any future production run that should match your newly created print standard.

You can use the tab key of your keyboard for fast navigation in the menus.

Inks print sequence and screen angles:

Specify hereafter the inks print order and the tint angles for this print standard. For your information it can be OK starting by the darkest ink and then sequence you inks by tint angle. If present, black is often printed first, but can as well be printed as last color (e.g. with using a "3rd group yellow" when printing CMYK).

This button allows you exporting your media and inks specifications as a spectral data text file that you can open with MeasureTool and save in CxF format. This file is holding all data your Supplier , needs for formulating your inks.

data can be used directly by Colorsource inks control and press setting applications.

Export paper and inks spectral specifications

Inks quality control at reception:

You will find herafter the media and solid inks spectral data that SPOT Color Manager application needs for controlling you inks quality at reception. This control should be done before mounting your inks on your press, by putting them first at 100% (any reasonnable thickness) on your media. SPOT_Color_Manager application with then check all your target solid colors can be matched and will warn you of any problem with the inks formulation such as metamerism.

0.221 0.384 0.55 0.739 0.881 0.872 0.863 0.864 0.867 0.872 0.883 0.894 0.902 0.908 0.91 0.911 0.912 0.911 0.914 0.916 0.916 0.916 0.916 0.916 0.915 0.915 0.915 0.915 0.912 0.91 0.911 0.912 0.914 0.912 0.912

Sun-Cyan_015 (CLR_1) Sun-Mag 018 (CLR 2) un-Yellow_024 (CLR_3 un-Black 032 (CLR 4) un-Green_hexa (CLR_5) un-Violet_044 (CLR_6) in-Orange_072 (CLR_7)

0.017 0.019 0.021 0.023 0.025 0.026 0.026 0.026 0.027 0.027 0.027 0.026 0.026 0.026 0.026 0.026 0.026 0.025 0.025 0.025 0.024 0.024 0.024 0.024 0.024 0.024 0.025 0.026 0.027 0.028 0.028 0.028 0.028 0.028 0.028 0.028 0.036 0.055 0.074 0.093 0.116 0.132 0.145 0.169 0.204 0.254 0.34 0.483 0.635 0.713 0.711 0.663 0.593 0.508 0.415 0.311 0.299 0.195 0.143 0.111 0.098 0.095 0.094 0.096 0.105 0.12 0.139 0.158 0.172 0.179 0.152 0.179 0.152 0.179 0.152 0.179 0.152 0.179 0.152 0.179 0.152 0.179 0.152 0.179 0.152 0.179 0.152 0.179 0.152 0.179 0.152 0.179 0.152 0.171 0.166 0.101 0.1 0.056 0.056 0.057 0.057 0.058 0.051 0.047 0.046 0.046 0.047 0.049 0.053 0.058 0.063 0.072 0.094 0.148 0.282 0.51 0.72 0.843 0.9 0.926 0.938 0.942 0.945 0.945 0.943 0.941 0.945 0.951 0.956 0.959 0.956 0.957 0 **Control bar:** 100 100 100 This control bar allows easy prints control at press setting. The reference file allows easy measurement Export this control bar reference file of this control bar with using MeasureTool, and creating a printable control bar with using ColorLab. The measurement file contains this control bar C.I.E. Lab reference values when your press does match your Export this control bar reference colors TVI normalized reference ICC profile. Save and communicate your print standard in form of a simple Excel spreadsheet: Pressing this button allows you saving your new print standard complete specifications in form af a simple Excel spreadsheet you can easily communicate to all your Partners. These Save this print standard specification

While filing all the technical details of your new print standard, you will find four useful export buttons:

The first three buttons allow you exporting useful CGATS text files (That you can drag and drop on MeasureTool or free Colorlab application for viewing them).

The fourth and last button allows you saving this standard datasheet in a form of a single Excel spreadsheet you can store for subsequent production runs matching this standard. You can as well send it by e-mail to all your partners who should match this standard.

The data in this Excel export can be used directly with Colorsource press setting applications:

Normalizing your RAW press ICC profile using ICC_Normalize with ProfileEditor application:

If you open sample press characterization file "Offset_heptachromie.txt" and choose Curve C as the common target TVI curve for all 7 inks in the ICC_Profile_TVI_Normalization tab, you can export a profile normalization file named: [DATEyyyymmdd]_7_CLR_STD_for_TVI_normalization_Offset_heptachromie.txt

i.e., 20140804_7_CLR_STD_for_TVI_normalization_Offset_heptachromie.txt on August 2014 4th.

(You can choose a different file name but using default file names is convenient)

For normalizing your **RAW** press ICC profile, open it in ProfileEditor application, click on "A Lab \rightarrow 7CLR" and then on **Gradation Correction** in ProfileEditor toolbar.

Then drag and drop your profile normalization file **TWICE** on the Post linearization window:

Then click OK and then make File/Save As ... ICC profile:

Tools Gredation Corrections	ProfileEditor		
Postinearization	Pe Edit Toole Language Window Hep ProlifeEditor 5.0	Part of the 3 Profile Profile Profest	iolution Pockage Nake (5.0 SSIONAL
Gradetions Tools	A Set up your ICC profile workflow. Choose the number of ICC profiles to use. 'frig Save ICC profile	One ICC Profile Source and Destination Profiles Source Simulation and Destination Profiles X K Rechercher dans : cobr	Sive Profile X Decide if you wish to save the addts into other rendering intents and for the other profile direction. Then click the Save As button.
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Workflow White Point	 si-St Speech spool drivers 	F47RelestPerc.icc G8_FGW_VIOLET_300K_NORM_CF	To apply the edits to the soft proof portion of the profile choose ALL the rendering intents on the right. To apply the edits to the output portion of the profile choose the rendering relations on the left. The intent based upon your edits is preselected.
Information Profile Info GamutView	Nom du fichier : Heptachromy_white_coated_Normalzed.icc Type : ICC profiles (*.icc *.icm)	×	✓ Write file name into desc-tag desc-tag ile name
	Cacher les dossiers	Enregistrer Annuler	Save As Cancel

You can now save your normalized ICC profile. Done.

Sample worked examples:

You will find with the software distribution a sample 7 colors press characterization file where TVI curve C was aimed at for all 7 inks.

You will find as well a 6 CLR CMYK + Orange + green file made by measuring a color chart printed in a repro house on a repro test offset press: All six TVI curves are nice, but they are all different because mastering repro test presses TVI curves is not easy. No problem: You can compute the 6 CLR profile and normalize its 6 TVI curves on a same common standard target TVI curve, in order to publish a simple standard with one single target TVI curve for all inks.

Known bugs:

When you export CGATS text files or your Excel print standard specifications using **ICC_Normalize** export buttons, convenient automatic files names are generated and of course you can modify these file names.

When using automatic file names (the most convenient way) please note that if a file name with same name is already opened, your new file will not be saved, without error message, if a file with same name is already opened.

So that you should rather open the generated Excel print standard specification file only after your work of specifying your new standard is finished, or close this Excel file if you need to generate it again with modified specifications and same name.

Future:

Of course, many future developments and improvement are possible.

For answering a frequent question, we are not present on any social network, because we consider all major social networks infringe the most basic privacy requirements, steal your personal data, and sell your personal information to Companies who not only spam you but spam as well all your relations on these social networks!

Moreover, it has been proven they ALL have opened your personal data to spying organization such as NSA that are actively contributing to the expansion of terrorism in the world, while wasting billions of dollars that could be much better used for establishing more cooperation and security.

You can contact us so easily by phone or by e-mail! So, we do not see any interest into feeding all these social networks fat shareholders!

Best regards,

10000

Wilfrid Meffre

wme@color-source.net

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Troubleshooting and FAQS:

Colorsource applications are using Microsoft Excel for computing engine. Use Microsoft Excel 2007, Excel 2010 or Excel 2013, 2016, 365 or later.

Please note that Excel (or Microsoft Office) should be installed with appropriate Microsoft Office components including Visual Basic, otherwise the application will not launch.

Sometimes optional components of Microsoft Excel (depending on your Excel version and installation kit) MUST be installed. If needed go to Windows Control Panel, in the program's installation menu:

	🌀 🕞 🗟 🗸 🗸 🐨 Panneau de config	uration Tous les Panneaux de configuration Programmes et fonction	naltés		•	Rechercher dans : Pr
	Fichier Edition Affichage Outils	7				
	Page d'accueil du panneau de configuration Afficher les mises à jour installée:	Désinstaller ou modifier un programme Pour désinstaler un programme, séectionnez-le dans la liste et di s	quez sur Désinstaller, Modifier ou Réparer.			
	Activer ou désactiver des fonctionnalités Windows	Organiser 🕶 Désinstaller Modifier			lelzz leluere	1-1
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Personnaliser les modalités d'exécution des programmes Microsoft Office		Adobe Creative Suite	Adobe Systems, Inc.	7/10/2010	1.1.1	
		Adobe Flash Player 10 ActiveX	Adobe Systems Incorporated	9/27/2011	6.00 Mo 10.3.183.10	
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Ð		Options Excel			<u>? x</u>	

You HAVE TO approve the access to object model of VBA project:

Check your Excel version is installed with all most recent Microsoft updates. For checking Excel is up to date, go to Excel/Options/Resources (Excel 2007), or go to Excel/File/Help or to Excel/File/Account and then press the « Search for updates » button.

Finally, if the application does not launch, disable your antivirus: There are no problems with most of the serious antivirus applications (including Windows native protection systems, free antivirus like Avira, AVG etc.) but some rare antivirus applications may prevent the application launching.

Make a test by disabling your antivirus and if necessary, change of antivirus program if your present application is the problem.

The application shows error messages such as "#####" or strange curves in the result display tabs once I have pasted my data:

Check you have opened a **spectral** data, and not Lab data press characterization text file by having erroneously recorded Lab data with MeasureTool or i1Profiler.

Results tabs display too small or too large on my monitor:

Press "Ctrl" key and use the mouse wheel for zooming in or out, and then save your application ("Ctrl s").

You can as well mask the Excel commands ribbon or use Excel Full screen display mode, and then save your application ("Ctrl s"). You can switch back from full screen display mode by pressing Escape key.

Any other question or suggestions? Please ask! <u>support@color-source.net</u>

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CMYK_Print_&_Proof

PLATE

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