



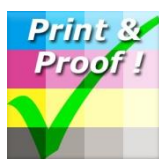
COLORSOURCE

27 rue Pierre Brossolette
91430 IGNY France
Phone.: +331 69 41 01 62
Fax: +339 55 27 98 48
Email: support@color-source.net
<http://www.color-source.net/en/index.htm>
<http://www.ISO12647Solution.com>

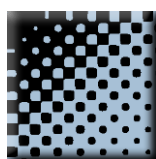
Colorsource software installation and using guide

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CMYK_Print_&_Proof



PLATE



CMYK_100%



CMYK_Gravure



SPOT_Color_Manager



SPOT_Gravure





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Colorsource applications allow you fast and easy CMYK press setting for matching any existing **ISO12647-2**, **ISO12647-3**, **ISO12647-4**, **ISO12647-6** standard or the US **G7/IDEAlliance** interpretations of **ISO12647-2** standards (**GRACoL & SWOP**). **You can freely test them for a limited time.**

Colorsource press-setting applications are the essential toolbox allowing you as well optimizing any N-Colors printing process with or without a CMYK base. They allow all Print Houses controlling their inks quality and performing excellent press settings (Offset, Gravure, and Flexography), with using a simple spectrophotometer such as **X-Rite/GretagMacbeth Eye-One Pro**, **EFI ES-1000-2000** or **Eye-One Pro 2**, connected to free measurement software such as **X-Rite MeasureTool**, **i1Profiler**, or **ColorPort**.

More generally, **Colorsource** software allow you using any **45/0°** spectrophotometer with any print process using transparent inks, but above-mentioned models are the most attractive, thanks to their scan measurement mode allowing fast measurement of your charts when setting your printing presses.

The **X-Rite Eye-One Pro 2** is certainly the best choice today if you need to buy a new spectrophotometer, because it is quite affordable and does not offer you all these built-in functions you do not need.

Using USB connected spectrophotometers with appropriate software allows optimizing ALL Graphic Industries prepress and color printing applications.

Our solutions are much more powerful, productive, and flexible than using expensive pressroom spectrophotometers, while being much cheaper today than the most basic CMYK densitometers or offset plate readers. Therefore, you should no longer waste your time and money, and move to modern USB connected spectrophotometers with our appropriate software on PC!



Controlling CMYK proofs and prints:

Free CMYK_Print_&_Proof application: For fast and easy checking of all CMYK proofs, with using **Fogra Media Wedge 2**, **Fogra Media Wedge 3**, **Colorsource ISO 12647-7** or **G7/IDEAlliance ISO_12647-7 2009** control bars.

With **Eye-One Pro 1** or **2** or **EFI ES-1000** or **20000**, above four usual CMYK control bars can be measured using **MeasureTool** or **i1Profiler** (Patches data sorted by columns) or **ColorPort** (Patches data sorted by line), and they are automatically recognized by the application.

The **AUTO** mode allows you automatic comparison of your measured control bar with the nearest found **ISO12647-2-3-4** or **G7/IDEAlliance** or **CUSTOM** standard, which allows, if needed, identifying the CMYK standard being simulated by this color proof.

Free CMYK_Print_&_Proof application allows:

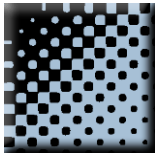
- a) Controlling **CMYK color proofs** according to **ISO12647-7** (ΔE_{76} & ΔH), **ISO12642** (ΔE_{76}), or **G7/IDEAlliance** specific criteria (ΔE_{76} , ΔH , ΔL , & ΔF) with ISO or custom tolerances or according to your own standards based upon $\Delta E_{CMC2:1}$ or much better **ΔE_{2000}** , with your own tolerances.
- b) Controlling any CMYK digital print, plus **ISO 12647-6** flexographic proofs thanks to its easily configurable **CUSTOM** targets. (Because **ISO12647-6** does not fully specify all your screened CMYK targets color when making flexographic prints).

The paying version **CMYK_Print_&_Proof_PRO** allows you as well controlling CMYK prints according to **ISO 12647-2-3-4-6** (ΔE_{76}) and **G7/IDEAlliance** or according to your own **CUSTOM** standards based upon $\Delta E_{CMC2:1}$ or much better **ΔE_{2000}** . In Print control modes, the press TVI curves, dot gains and solid ink densities are checked.

CMYK_Print_&_Proof produces a control ticket plus a comprehensive PDF detailed report.



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Calibrating and controlling your lithographic offset plates:

PLATE application allows your offset plate's calibration, with an excellent accuracy even on self-developing offset plates with high N-factor and very low visible contrast.

Matching CMYK prints to ISO 12647-2-3-4-6 or G7/IDEAlliance color standards:



CMYK_100% application allows computing the ideal C, M, Y and K inks solid densities for matching any **ISO 12647-2-3-4-6** or **G7/IDEAlliance** specified colors. CMYK corrections are specified in terms of **density** (Status T, status E (DIN) or status I), and in terms of **ink thickness** or **pigment concentration**. You can as well optimize, record, and then match your own **CUSTOM CMYK standards** or **four colors standards** (Non-CMYK inks).

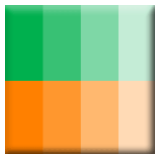


CMYK_Gravure application allows computing your four printing forms engraving curves, for matching **ISO 12647-2-3-4-6** or **G7/IDEAlliance** specified target colors on screened tones. You can as well optimize, record, and then match your own **CUSTOM CMYK** or **four colors standards** (Non-CMYK inks).

N-color printing with or without a CMYK base, and printing spot colors such as PANTONE:



SPOT_Color_Manager application helps to the ink formulation, and allows all your special inks color quality control, **on a test patch BEFORE you install these inks on your press**. **SPOT_Color_Manager** computes each ink correction in terms of **density correction** and **ink thickness or pigment concentration correction**. It allows you optimizing, recording, and then matching your own N-colors printing standards by properly specifying your inks sets. **SPOT_Color_Manager** also offers a powerful **Tint Search** function allowing you managing thousands of special inks.



SPOT_Gravure application computes each special ink optimal print density and printing former engraving curve, for optimal N-Colors press setting. Allows you to optimizing, recording, and then matching your own N-colors printing standards.

Colorsource applications allow you fast and easy CMYK press setting for matching any existing **ISO12647-2**, **ISO12647-3**, **ISO12647-4**, **ISO12647-6** standard or the US **G7/IDEAlliance** interpretations of **ISO12647-2** standards (**GRACoL & SWOP**).

They also allow you creating your own CMYK and N-Colors printing standards and then matching them on any of your printing presses. Creating new print standards is very useful for high-end CMYK publishing, and of course for Packaging printing where a new print standard has to be created for each new printing configuration including spot colors or special process colors.

Moreover, when you print using CMYK flexography, the ISO12647-6 standard only fixes a part of your target colors, so that you have to create your own custom target CMYK ICC profile for **CMYK_Gravure** application after you have set your flexographic press matching ISO12647-6 solid colors using **CMYK_100%** application.

I) Software installation:

1-1) PC configuration:

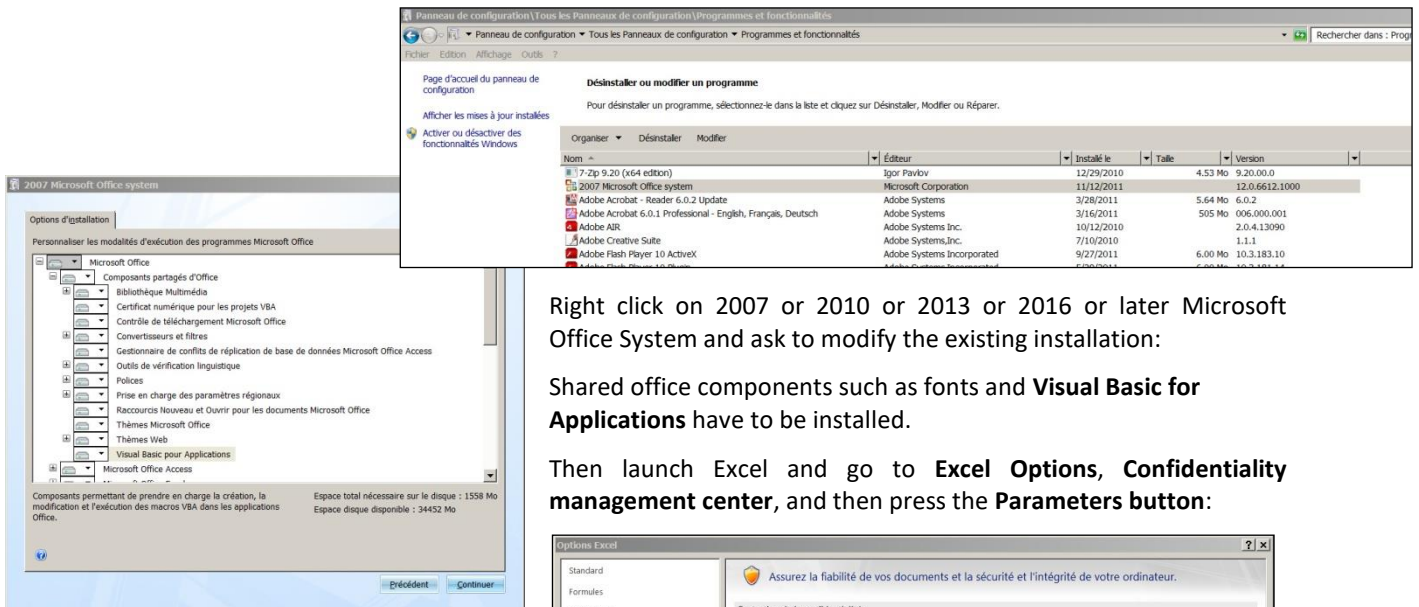
Operating systems: Windows XP, XP Pro, Vista, Windows 7, Windows 8.x, Windows 10 in their 32 or 64 bits versions. **Colorsource** applications are executable (.exe) files: Install them in a folder (e.g. C:\Colorsource\ or C:\Program files(x86)\Colorsource\) and then create shortcuts for fast access. **Do not install the .exe application in a folder protected by an administrator password or you will get problems for saving your application with its current data and parameters.**

1-2) Microsoft Excel configuration:

Colorsource applications are using Microsoft Excel for computing engine. Use **Microsoft Excel 2007** or **Excel 2010** or **Excel 2013** or **Excel 2016** or later. (in their 32 or 64 bits versions).

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

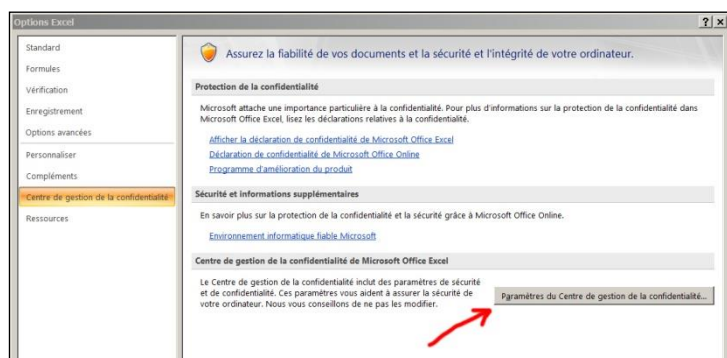
Sometimes optional components of Microsoft Excel (depending on your Excel version and installation kit) **MUST** be installed. If needed go to Windows Control Panel, in the program's installation menu:



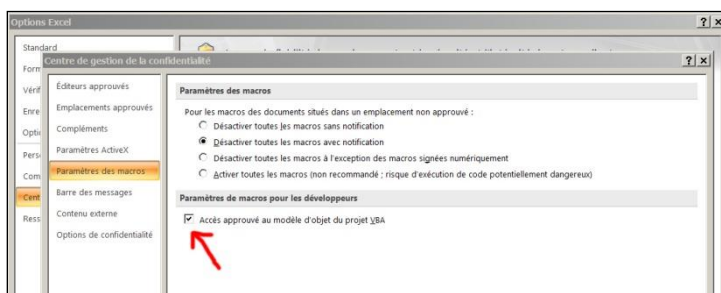
Right click on 2007 or 2010 or 2013 or 2016 or later Microsoft Office System and ask to modify the existing installation:

Shared office components such as fonts and **Visual Basic for Applications** have to be installed.

Then launch Excel and go to **Excel Options, Confidentiality management center**, and then press the **Parameters** button:



You HAVE TO approve the access to object model of VBA project (see below):



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 (See troubleshooting in this document)

1-3) Software installation in trial or full working mode:

Colorsource free applications **CMYK_Print_&_Proof**, **CxF3_to_CGATS** and **ICC_Normalize** are fully working versions with no limitation.

Colorsource paying applications you can download on our public software download page are **trial versions** that you can use with no key for a limited period of time.

Because these trial versions sometimes do not display all their results, you can send us your full professional co-ordinates and ask us for a temporary key if you want to test **Colorsource** press-setting applications without any limitation.

1-4) Getting a temporary or definitive unlock key:

Getting a temporary key if the installation PC has an email account:

We need your **Computer ID** for delivering temporary or final keys.



For generating your **Computer ID** launch one of the trial applications and click on "**Contact author**", which will generate an email containing your "Computer ID" addressed to "support@colorsource.net".

The button "**Contact author**" is located on the menu that appears when launching any trial application (a similar menu also appears at launch if your trial period is not over):

Do not forget to **send** the generated email!

Getting a temporary key when the installation PC has no email account:

When you launch any trial application a "**Copy Computer ID**" button is displayed as well: It allows you copying your Computer ID to Windows pasteboard: Use "Ctrl V" for pasting it into a text or Word file.

Getting your full-unlimited definitive key:

The process is the same as for a temporary key but you should first place us a formal order ;-)

1-5) Installing the unlock key:

Receiving your "Computer ID" will allow us generating your temporary or full license key.

At reception of your key:

1. Please remove by precaution any old key (file "*.rkey"): The fortuitous presence of an old temporary key can prevent the applications launching.
2. Please place your key file at your choice in one of the following directories:
 - Folder you have created where the ".exe" **Colorsource** applications reside, such as for example C:\Colorsource\, or D:\My Documents\High Quality Print\
 - Or Root of C:\ or Root of D:\

2) Measuring color charts for Colorsource applications:

Colorsource applications are using classical text measurement files as normalized by **CGATS** (Committee for Graphic Arts Technologies Standards), that can be produced by a wide range of 45/0° spectrophotometers connected to a wide range of free chart measurement applications. Spectral measurements are the only complete information about color, and allow **Colorsource** applications computing all information's you need for properly setting and driving your printing presses.

If your CGATS measurements files contain colorimetric data (Lab D50 2° apparent colors) instead of spectral data, some of **Colorsource** applications will use these data, but they will display more limited results.

By default, each **Colorsource** application offers a choice of dedicated printable color charts. These charts are supplied with two different layouts:

1. One layout you can measure using **Eye-One Pro**, **EFI ES-1000** or **2000**, or **Eye-One Pro 2**, with **MeasureTool** or **i1Profiler** charts measurement applications,
2. One layout you can measure using **ColorPort** charts measurement application, with **Eye-One Pro**, **EFI ES-1000** or **2000**, or **Eye-One Pro 2**.

You can also build and use other charts (e.g. 5% steps chart), but we recommend you using, in a first step, the dedicated press or plate charts we supply with each application, which provide excellent results and have largely be proven in the field on offset, gravure and flexographic CMYK and N-Colors printing applications. You will find all necessary CMYK charts in Colorsource free CMYK print forms on the web.

IMPORTANT NOTES ABOUT ISO12647-2-3-4-6-7 MEASUREMENT CONDITIONS:

1) Eye-One Pro 2 and EFI ES-2000 Users: Please note ALL ISO12647-2-3-4-6 and G7/IDEAlliance target colors are C.I.E. L*a*b* D50 2° target colors measured in M0 conditions on white background (Self-Backing), so that you should use M0 and self-backing conditions with your Eye-One Pro2 or EFI ES-2000 when setting a CMYK press to match ISO12647-x.

2) Please note ISO12647-2-3-4-6 target TVI curves have been established using DIN (Status E) spectral response, so that you should use DIN when setting a CMYK press to match ISO12647-x.

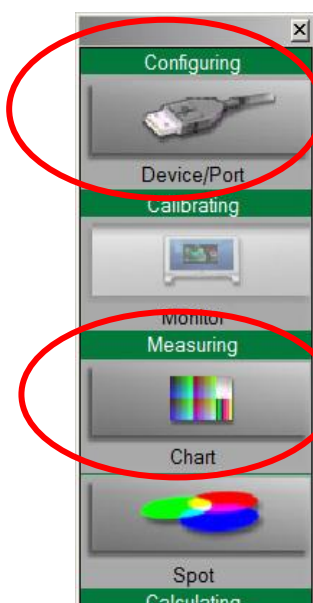
3) ISO12647-x specifies using ΔE_{76} , but of course, you will get better visual matching with ISO12647 or CUSTOM standards when choosing ΔE_{2000} rather than ΔE_{76} visual distance in Colorsource applications.

2-1) Making spectral measurement files by using free MeasureTool software:

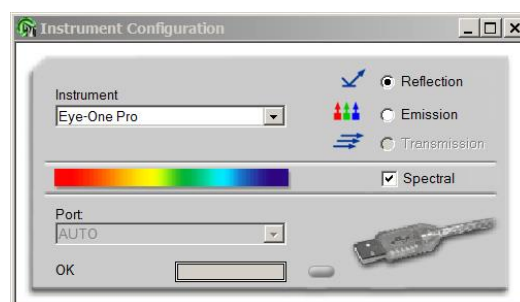
When using **Eye-One Pro**, **Eye-One Pro 2**, or **EFI ES-1000** or **2000**, your spectral measurements can be done using the excellent free **MeasureTool 5.0.10** software, which is our preferred measurement application:

http://www.xrite.com/service-support/downloads/P/ProfileMaker_v5_0_10

MeasureTool is one of the **ProfileMaker** software modules. **MeasureTool** allows measuring the dedicated press setting charts supplied with **Colorsource** applications.



Do not forget you must configure **MeasureTool** as shown hereafter: "**Configuring**" in Toolbar: Reflection, with **spectral box checked**, this for getting the spectral reflectance measurements that all **Colorsource** applications need:



For measuring a chart, choose “**Measuring** (Chart)” in the **MeasureTool** Toolbar and follow its instructions.

At the end of measurements, make “Close” and then “File/Save as...” (Alternatively "Ctrl s"). **Do not make “Export Lab” after closing but make "File/Save as..."**.

For fast and easy access to each chart reference file in **MeasureTool** drop-down menu “Choose the type of test chart to measure”, the CGATS reference text files supplied with **Colorsource** applications charts can be installed in ProfileMaker installation folder, for example in the following subfolder:

C: [or other] \Program Files[(x86)]\X-Rite\ProfileMaker 5.0.10\Reference data\Linearization\

In order to keep in the **MeasureTool** drop-down menu only color charts you do need, you can as well do some cleaning in following ProfileMaker 5.0.10 installation subfolders:

\Program Files[(x86)]\X-Rite\ProfileMaker 5.0.10\Reference data\Others\,

\Reference data\Printers\
 \Reference data\Linearization\
 \Reference data\Multicolor\
 \Reference data\Scanner\,

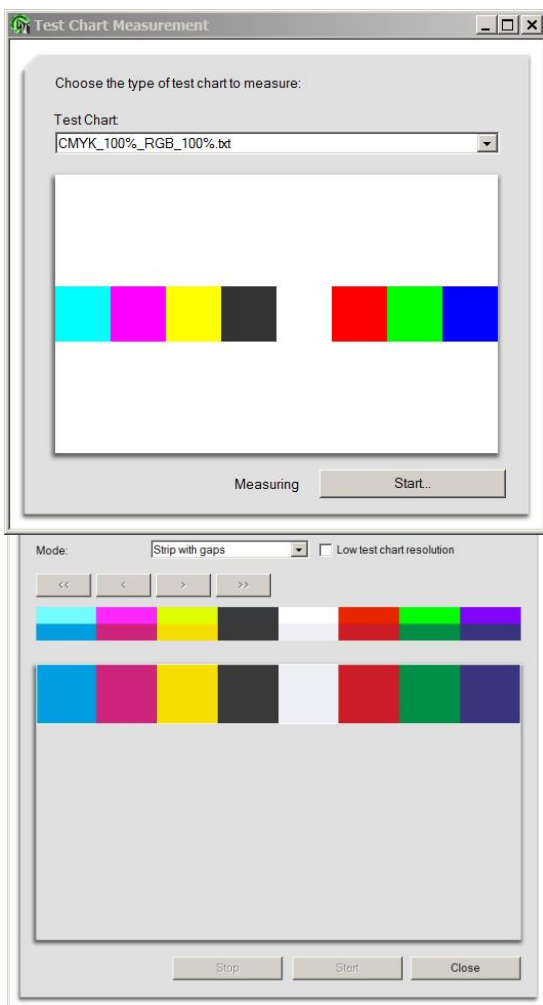
Example: Measuring "CMYK_RGB_MT.tif" chart with MeasureTool software:

Select the CGATS reference file of the chart you want to measure, press “Start...”, and follow **MeasureTool** instructions.

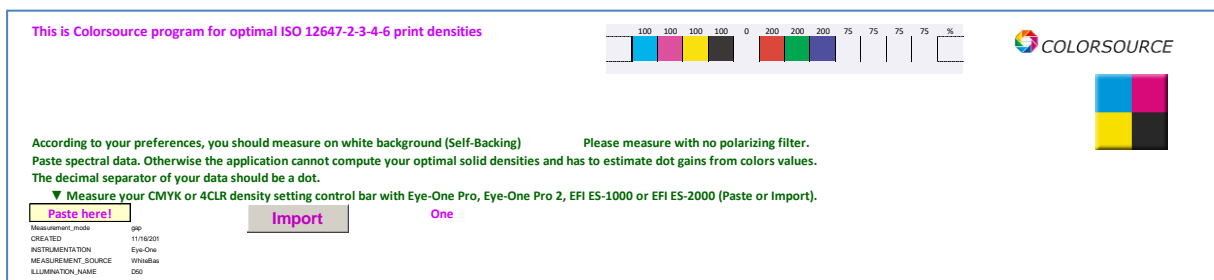
At the end of the chart measurement, make “Close” and then “File/Save as...” (Alternatively “Ctrl s”): Your measurement file is now saved in the form of a standard CGATS spectral measurements text file (.txt).

Do not make “Export Lab” as MeasureTool would only save the Lab D50 2° apparent colors, instead of the much richer spectral data Colorsource applications need.

MeasureTool is quite flexible and it is our preferred charts measurement application: When measuring many identical charts on many printed copies, in order your **Colorsource** applications can compute accurate settings from averaged data, you can stop measuring your copies at any moment. Even if you have selected a CGATS text reference file allowing you measuring fifteen charts on fifteen copies, **MeasureTool** allows you stopping your measures at any moment, and save them. **Colorsource** applications will work perfectly by averaging the measures available in your CGATS measurement file.



This measurement text file can be opened in Colorsource applications by using their Import buttons:



Alternatively, with some of the applications, you can as well open your measurement file (double click), then select and copy its content ("Ctrl A" then "Ctrl C" for selecting all and copying it) and then paste it (Ctrl V) to the application **Measure** tab.

Please note that before pasting data to the **Measure** tab, you first need to select the "Paste here!" cell with your mouse. Otherwise, pasting may be refused with a "write protected cells" message, or may sometimes be accepted and lead to obviously aberrant results.

If you are using two colors offset press for printing CMYK and wish using **CMYK_100%** for setting optimal CMYK print densities, you can as well use **MeasureTool**, not in "scan" mode but in "Patch" mode, after the first paper pass:

Measure cyan, magenta, then move to the paper white patch with right arrow, measure paper, then move to the blue patch (C+M), measure the blue patch, and then close and save your spectral measurement file (File/Save as...). This measurement file does not contain the yellow, black, red and green measurements, but will perfectly work with **CMYK_100%** for computing your first pass C and M inks optimal densities. More generally, **Colorsource** applications can accept the measurements data of any printed CMYK chart and will try to get the best out of what you have measured.

2-3) Making spectral measurement files by using free ColorPort software:

ColorPort download:

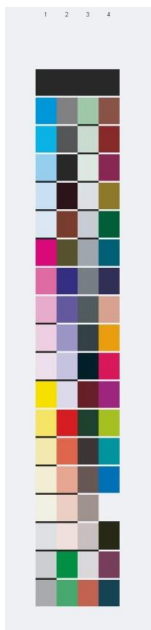
http://www.xrite.com/service-support/downloads/C/ColorPort-Utility-Software-v1_5_4

Each **Colorsource** application memorizes, in **Charts** tab, sample CGATS reference text file(s) that allow you measuring its dedicated color chart(s) by using **MeasureTool** or **i1Profiler** software.

See for example hereafter the **Fogra Media Wedge 3 control bar layout for fast measurement with MeasureTool, i1Profiler, or Colorsource applications (Other layouts are possible):**



The free **Colorsource** utility "**MeasureTool_Ref_to_ColorPort_Chart.exe**" - supplied with the **CMYK_Gravure** distribution kit on the web - allows you, if needed, converting any CGATS text reference file into a ".tab" text file, for **ColorPort** generating an equivalent printable chart (RGB, CMYK or 5-Colors, 6-Colors, 7-Colors, 8-Colors), that you can print and then measure using **ColorPort**.



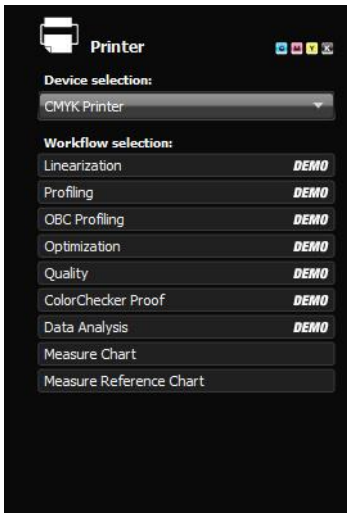
For example, the CGATS reference text file of **Fogra Media Wedge 3 control bar** memorized in **CMYK_Print_&Proof** **Charts** application tab can be converted to "**Ref_ColorPort_FMW3_Strip.tab**" allowing **ColorPort** generating a **Fogra Media Wedge 3** layout for measurement using **ColorPort**. On the left is shown a **Fogra Media Wedge 3** with **ColorPort** layout (Other layouts are possible).

For your information, this will be quite useful when using next update of **Colorsource** applications for N-Colors press setting, that will include a smart N-Colors chart generator dedicated to N-Colors press setting.

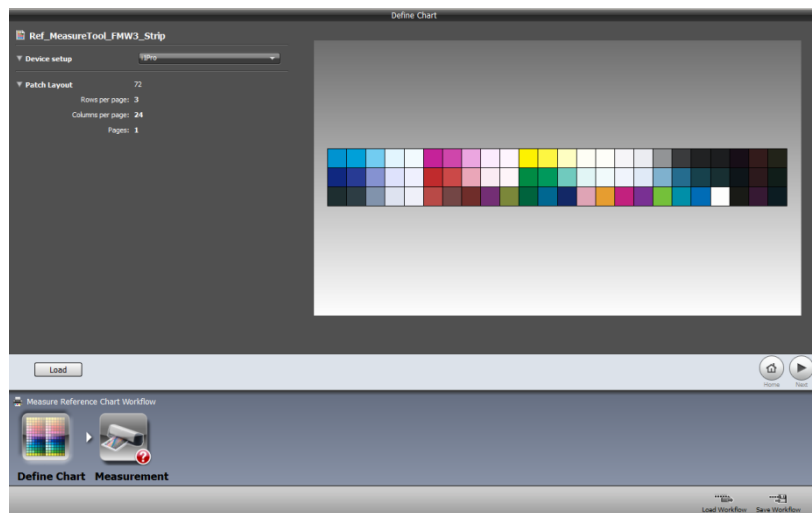
Please note that when you are using **ColorPort**, you should rather use a reference file designed for the exact number of copies you want to measure. Because if your **ColorPort** reference chart is designed for measuring 30 copies, you will be obliged to measure all these 30 copies before you can stop measuring and save your **ColorPort** measurement file...

2-3) Making spectral measurement files by using free i1Profiler software:

Without a license, you can measure charts specified by their classical CGATS text reference files, and record your text measurement files by choosing "**ProfileMaker 5 CGATS Spectral**" format.



Choose "**CMYK Printer**" and use "**Measure reference chart**": The last function down left of homepage. You can **Load** the **CGATS** reference (E.g. "**Ref_MeasureTool_FMWS3_Strip.txt**"), and then **i1Profiler** allows you in the following menu measuring your chart. Your measurement file has to be saved using "**ProfileMaker 5 CGATS Spectral**" text format for direct use with **Colorsource** applications.



When you are using **i1Profiler**, you should rather use a chart reference file designed for the exact number of copies you want to measure. Because - unlike when using **MeasureTool** application - if your **i1Profiler** reference chart is designed for measuring 15 copies, you will be obliged to measure all these 15 copies before you can stop measuring and save your **i1Profiler** measurement file...

Mind following important point:

i1Profiler does not allow using N-Colors CGATS reference files (other than RGB or CMYK). **That is why we have designed dummy CMYK CGATS reference file for measuring the monochrome charts of PLATE and SPOT_Gravure applications.**

You should use **i1Profiler** latest version. In these conditions:

- Patch measurement mode always works,
- **Scan measurement mode (that is most of time desired for our applications) does not work for some colors**, because **i1Profiler** checks your measured color, and sometimes refuses the measured color if it finds it is too far away of the dummy CMYK CGATS reference file you are using.

Solution:

Modify **i1Profiler** initialization file named "**XRi1G2WorkflowSettings.ini**" in order to **deactivate i1Profiler color checking process**.

This file is in a hidden Windows folder. In order to access this folder, go to the Tools/Folder options of Windows File Manager (Or go direct to **Folder options** in Windows **Control Panel**). In the **Display** tab, uncheck the radio button "Do not display hidden files, folders, or volumes".

This now allows you accessing following folders:

Under Windows XP, folder: C:\Documents and Settings\All Users\Application Data\X-Rite\i1Profiler\
Under Windows 7 or 8, folder: C:\ProgramData\X-Rite\i1Profiler\

You can also use above access paths as shortcuts with Windows file explorer.



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You will find the "XRI1G2WorkflowSettings.ini" file. Open it with a text editor, and modify it as follows:

Original file:

```
[General]
PrinterNames=CMYK Printer, RGB Printer
PaperNames=Plain, Glossy, Matte
LastProfileCreationTestChart=Default
...
UseEasyMode=false
NeedToClearCalibration=true
MeasurementTolerance=0.5
MeasurementRGBTolerance=0.6
...
Etc.
```

Change:

MeasurementTolerance=0.5 to **MeasurementTolerance=100**

This allows **i1Profiler** measuring any color with the dummy CMYK CGATS files we supply for **SPOT_Gravure** and **PLATE** applications.

You can as well change the previous line:

NeedToClearCalibration=true to **NeedToClearCalibration=false**

This change is quite convenient, because i1Profiler will no longer ask you to recalibrate your spectro before each line measurement, for example, when you are setting the seven densities of your seven inks on a seven colors press, in order to set each ink optimal density.

But if all this would look too complex to you: Use MeasureTool that is the best measurement application!

i1Profiler is today quite a deceiving piece of software - Because of so many bugs and so many drawbacks when compared with **ProfileMaker**. For example, **i1Profiler** cannot even average seven color presses characterization data prior to computing their ICC profile, and its "**PANTONE Color Manager**" is a pure joke when compared with excellent **ProfileMaker ColorPicker** module.

That is why we used to strongly advise Print Houses to rather buy **ProfileMaker Packaging**, which is alas and very strangely **X-Rite** stopped selling in 2014!

Even in trial mode, ProfileMaker offers many useful functions i1Profiler is missing. And because X-Rite pretend i1Profiler is much better than ProfileMaker, they should see no inconveniency into offering one ProfileMaker free license to each i1Profiler Customer! (Search the web and you may find one ;-))

2-4) Making spectral measurement files by using free Eye-One Share software:

For measuring special inks for **SPOT_Color_Manager** application, you can use **MeasureTool** or **i1Profiler**: For example, say you want to measure 1 line x 11 columns chart if you want to measure 10 solid inks plus the paper supporting them.

However, free **Eye-One Share** software is quite convenient. It allows measuring, naming and saving one or more tints and their substrate in the very convenient form of CxF v1 format colors palette, and also exporting these color palettes to Excel format (Menu File/Export, and then choose "Excel Palette" in the pull-down menu).

Eye-One Share also allows measuring incident light, for controlling both the color temperature and Color Rendering Index of light booths (CRI: Spectral conformity of the measured light to the incandescent light source of nearest color appearance in C.I.E. Luv color space). Allows checking your D50 light booth does not cause too much metamerism when compared with true C.I.E. 5003 K daylight.

Download link: http://www.xrite.com/service-support/downloads//i1Share_v1_4



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Eye-One Share provides the complete reference libraries of Pantone spectral data on the installation CD-ROM delivered with non O.E.M. Eye-One Pro spectrophotometers. These Pantone data can be exported and then used and saved if needed as standard libraries target colors with **SPOT_Color_Manager** application. But because **Eye-One Share PANTONE** libraries dated 2004 are obsolete, **Colorsource free application CxFv3_to_CGATS** allows you extracting the right PANTONE spectral data.

The free **Eye-One Share** version on Internet only offers a limited number of Pantone tints: Here as well, **free Colorsource CxF3_to_CGATS application allows you using all modern up-to-date PANTONE digital libraries with MeasureTool, ColorPicker, Eye-One Share and SPOT_Color_Manager applications.**

Important note for using Eye-One Share with Eye-One Pro 1 or 2 with Windows 64 bits versions:

To date the **Eye-One Share** installer has not been updated for Windows 7 or 8.x or 10 64 bits. So that for using your Eye-One Pro 1 or 2 with **Eye-One Share** software under Windows 64 bits versions, you need to install as well the Eye-One Match software, and then copy the "EyeOne.dll" library (dated 03/07/2007) you find in "Program Files (x86)/GretagMacbeth/Eye-One Match/", **and use it to replace the older "EyeOne.dll" library** you find in the i1Share installation folder "Program Files (x86)/GretagMacbeth/i1Share/". **This "EyeOne.dll" library (dated 03/07/2007) is supplied as well in SPOT_Color_Manager distribution kit so that you can avoid installing Eye-One Match and just use the dll we supply.**

Please note i1share need an ICC **v2.0** RGB monitor profile for displaying accurate colors. Choose this option when calibrating your monitor. Using v2.0 and not v4.0 makes loss of accuracy for all standard D50 graphic arts applications.

3) Tips and precautions for software operation:

3-1) Measurement files decimal numbers separator:

Each Colorsource application configures EXCEL decimal separator to be a dot when you launch it.

In your spectral or colorimetric CGATS measurement text files, the decimal separator has to be a dot (.) (e.g. 0.1258), because most of measurement applications are using a dot as decimal separator.

However, if you need to paste a measurement text file with comma decimal separator "," to a Colorsource application configured by default with a dot decimal separator ".", you have the two following possibilities:

1. If this is exceptional, the easiest way is to replace automatically all dots in your text file by commas **before** you paste it. (Use Ctrl h or Ctrl r, depending on your text editor).
2. You can as well configure your **Colorsource** application in order it no longer uses the default dot decimal separator, but commas. For doing so, go to Excel/Options and then Excel/Advanced options. At the "Decimal separator" paragraph, enter a comma "," at the room of the dot. Please note that dot decimal separator will be set again next time you launch your application.

Using spectral or colorimetric CGATS measurement files keeps quite fast and easy, as long as you configure your measurement application(s) and Excel for using the same decimal separator.

3-2) Optimizing Colorsource applications display on your monitor:

Adapting the applications display to your RGB monitor: It is easy to zoom in or out on each application tab in order to optimize its display for your monitor: **Use your mouse wheel while maintaining keyboard "Ctrl" key pressed.** You can then save your application with your settings ("Ctrl S").

You can mask Excel ribbon (Point the ribbon with your mouse and use the mouse right button menu). You can as well use **Excel FULL SCREEN display** (menu display ... Full screen) because you do not need Excel menus for making full use of **Colorsource** software. The Escape key allows switching back to normal Excel display mode.



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3-3) Browsing your charts CGATS reference files:

Drag and drop any of your CGATS ref. file on **MeasureTool** or **Colorlab** main window: Even if your text file contains no colorimetric or spectral measurement data, you will see the kind of chart your CGATS reference file describes.

3-4) Making printable chart files by using normalized CGATS reference files:

Each **Colorsource** application is supplied with appropriate printable charts and their CGATS references and with their equivalent printable charts and references for **ColorPort**.

You can as well specify your own charts by a CGATS reference file and generate the associated printable chart:

- a) If you **own ProfileMaker (Dongle needed)**, you can use **MeasureTool** charts generator. N-Color charts generation may not be allowed depending on your **ProfileMaker** version. However, the linearization charts generated with **MeasureTool** generator have not very convenient layouts for the use we intend on printing presses, so that you should rather go for the following solution:
- b) Free **Colorlab** software also allows generating your **CMYK** printable charts form any standard **MeasureTool** (CGATS) reference file. Make Filter/layout and Format/test chart Define. **Colorlab** can also generate N-Colors printable charts until 8 colors: These charts have quite convenient layouts and can be recorded as RGB TIFF files with alpha channels that can easily be converted to N-Colors .eps charts by using Photoshop.
- c) Free **Colorsource** utility "**MeasureTool_Ref_to_ColorPort_Chart.exe**" also allows you converting any CGATS reference file into a **.tab** text file allowing **ColorPort** generating an equivalent printable RGB, CMYK or N-Colors chart, and of course measuring it.

The **.tab** text file produced from the CGATS ref. file with the **Colorsource** utility has to be placed in folder:

Documents/**ColorPort_Resources/Custom/Appropriate_folder** (e.g. 8color for an 8_CLR chart).

In **ColorPort** "**Create Target**" tab, choose your instrument (e.g. i1Pro), and choose "8 Colors" in the **Color Space** drop-down menu. Your **.tab** text file for creating a custom 8 colors chart then appears in the **Patch Set** drop-down menu.

You can now choose your paper format and margins and press "**Save Target**". **ColorPort** now creates:

1. Your printable 8 colors chart that you can save using DCS2 (eps) format.
2. And as well an .XML file summarizing all your 8 CLR charts specifications, that is saved in folder **Documents/ColorPort_Resources/Refs/8color**

Colorsource applications charts for **ColorPort** are supplied with both **.tab** and **.XML** reference files. **The .XML references are enough**, but using the **.tab** references can allow you generating your own charts with your preferred layouts.

The "File/Target Manager..." menu allows you managing your **ColorPort** charts.

3-5) Choosing the application language and software localization:

Each application **Preferences** tab offers a pull-down menu for choosing the application language between English and French. At **first launch**, each **Colorsource** application detects your keyboard language and configures the appropriate language. You have to save your application ("Ctrl s" or File/Save) for avoiding this application searches the language at each following launch.



4) Customization of CMYK_100%, CMYK_Gravure and CMYK_Print_&_Proof applications:

These applications offer matching all ISO 12647-2, ISO 12647-3, ISO 12647-4, ISO 12647-6 or G7/IDEAlliance preprogrammed target Lab colors, or your own **CUSTOM** CMYK target colors, such as, for example, the "Euroscale.icc" or "USSheetFed_coated.icc" I.C.C. profiles target colors.

The custom target colors CGATS measurement files for specifying your own **CUSTOM** standards can be spectral or colorimetric CGATS files measured on reference prints or proofs, and can be as well easily computed from any reference CMYK ICC profile.

Free **Colorlab v2.8.13** software allows computing the Lab colors you will get on paper for any chart specified by a CGATS reference file, according to any CMYK our four colors (non CMYK) target I.C.C. profile: This allows you fast and easy computation of your **CUSTOM** target colors CGATS file, for any chart and for any CMYK ISO or non-ISO target I.C.C. profile.

Of course, this is working as well with the reference files of the default charts supplied with your **Colorsource** applications. This allows you easy and fast setting of your **CMYK_100%**, **CMYK_Gravure** and **CMYK_Print_&_Proof CUSTOM** target colors, by simply importing your target spectral or colorimetric CGATS measurement files into their **Custom** tabs.

Please see the detailed work procedure in **CMYK_100% and CMYK_Gravure_users_guide.pdf**.

Link for downloading free **Colorlab** software:

<http://www.xrite.com/service-support/downloads/C/Colorlab-Utility-Freeware-V281x>

5) Sample measurements files:

Each **Colorsource** application is supplied with sample measurement files.

You can use open and use all these sample measurement files for training in order to get more familiar with the operation of **Colorsource** applications. **For each application, you can save the import and export file paths for next application use by saving this application (File/Save or "Ctrl s").**

6) Summary of useful free download links:

ProfileMaker:

http://www.xrite.com/service-support/downloads/P/ProfileMaker_v5_0_10

ProfileMaker allows you using **MeasureTool** and many other useful features without needing a dongle. **MeasureTool** is by far the most flexible charts measurement application. **MeasureTool** is our preferred application when using Eye-One Pro, Eye-One Pro 2, or EFI ES-1000-2000.

ColorPort:

http://www.xrite.com/service-support/downloads/C/ColorPort-Utility-Software-v1_5_4

This fully free application allows you measuring your charts with a wide range of measurement instruments. Also allows you generating and measuring a wide range of printable charts including N-Colors charts.

Colorlab:

<http://www.xrite.com/service-support/downloads/C/Colorlab-Utility-Freeware-V281x>



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Colorlab is a very powerful and flexible tool and it is free. It allows you generating Custom Lab target colors files by using any CMYK or N-Colors CGATS reference file with any CMYK or N-Colors ICC profile. Also allows generating CMYK and N-colors printable charts from CGATS reference files.

Eye-One Share:

http://www.xrite.com/service-support/downloads/I/i1Share_v1_4

Ideal for measuring and naming your special inks and media one by one before you paste them to **SPOT_Color_Manager** application. You can use as well **MeasureTool** in Measuring Chart/Custom mode or **i1Profiler** in "Measure Chart" mode for measuring one by one any set of N colors (x 1 line).

CONTEXT: An excellent text editor for Windows:

<http://context.fr.malavida.com/>

Standard Windows text editor is OK but CONTEXT is much better.

Important up to date Colorsource information about ISO12647-2-3-4-6 standards and ISO12647-2 US G7/IDEAlliance interpretation (GRACoL & SWOP) for choosing you press-setting strategy:

http://www.color-source.net/en/Docs_Formation/2015_POINT_ABOUT_ISO_12647_STANDARDS.pdf

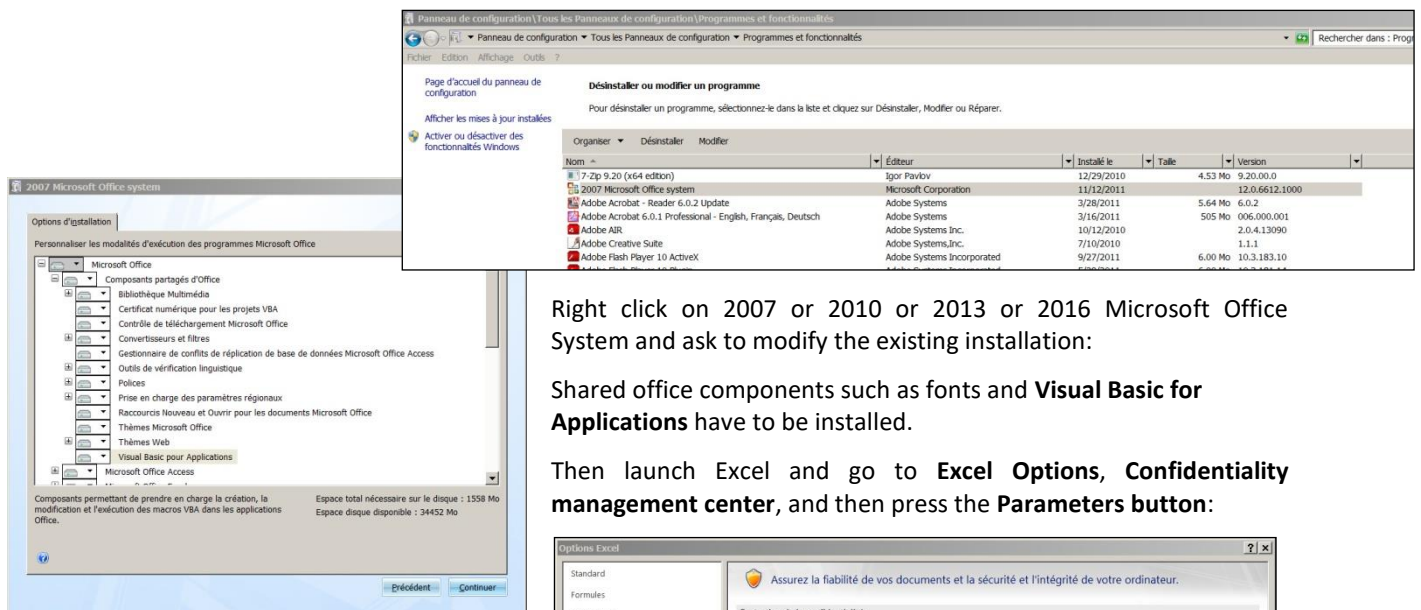
7) Troubleshooting and FAQs:

7-1) The application does not launch:

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

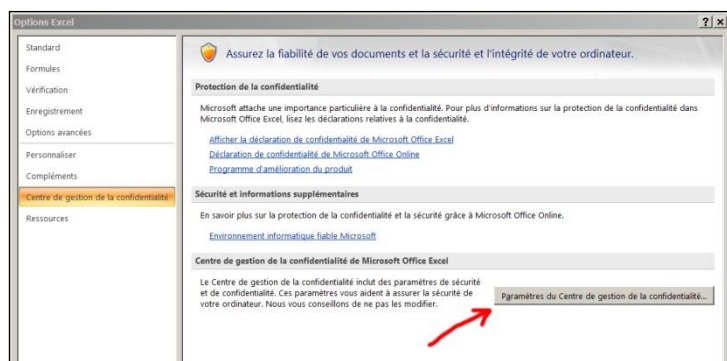
Sometimes optional components of Microsoft Excel (depending on your Excel version and installation kit) **MUST** be installed. If needed go to Windows Control Panel, in the program's installation menu:



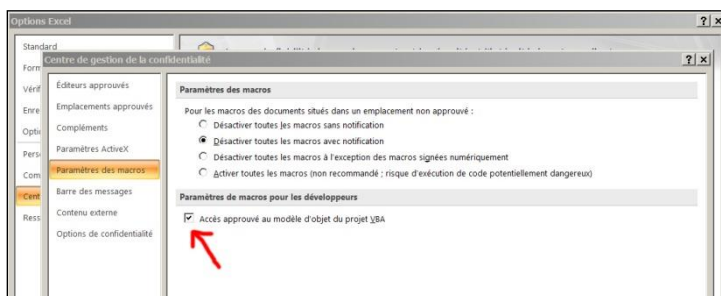
Right click on 2007 or 2010 or 2013 or 2016 Microsoft Office System and ask to modify the existing installation:

Shared office components such as fonts and **Visual Basic for Applications** have to be installed.

Then launch Excel and go to **Excel Options, Confidentiality management center**, and then press the **Parameters** button:



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.

7-2) I cannot paste or import my measurement data in the **Measure** tab:

The program says it is “The cell is write protected”.

Please note before pasting your spectral measurement text file to **Measure** tab, you need first select cell **"Paste here!"** with your mouse, or select a cell in the relevant **"Tint names"** column when using **SPOT_Color_Manager**, in order to paste your data at the right location.

If you don't select the right cell, you may get a “write protected message”: This does not mean the useful cells are write protected: This means that your text measurement file tries to write not only the allowed cells but also one or more write protected cell(s) around.

This can happen for example if you add many blank (and invisible!) lines at the end of the text measurement file after the last data line “END_DATA”, or if blank data are present at the end of each line.

Each **Colorsource** application authorizes pasting your spectral (or sometimes colorimetric) measurement file produced when using the relevant reference files. **If you import measurement files from some other application, mind to format your measurement data the appropriate way.**

7-3) The application shows error messages such as “#####” or strange curves in the result display tabs once I have pasted my data:

Check your measurement data decimal separator is a dot. If needed see the details in this manual on **page 11**.

Check you have pasted your measurement data at the right location(s) in your **Colorsource** application.

7-4) i1Profiler refuses to measure my SPOT_Gravure or PLATE chart in scan mode, telling measured colors do not match the reference file:

See this manual on **page 9**.

7-5) Eye-One Share application does not see my Eye-one Pro:

Please see **Eye-One Share** installation procedure for Windows 64 bits versions on **page 11** of this document.

7-6) I cannot find all Pantone 2004 tints in my Eye-One Share Pantone libraries:



You need to use X-Rite installation CD-ROM as on aside monitor copy: Press Color Guides.

But in order to use i1Share with the latest **PANTONE digital libraries**, you can use **Colorsource FREE CxF3_to_CGATS** application that allows you extracting all modern **PANTONE digital libraries** from **Pantone Color Manager** and **InkFormulation** applications, and convert them into **CGATS** format for use with **ColorPicker**, **MeasureTool**, **SPOT_Color_Manager** and **Eye-One Share**.



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7-7) Eye-One Share displays all colors as grey:

i1share application need an ICC **v2.0** RGB monitor profile for displaying accurate colors. Choose this option when calibrating your monitor. Using v2.0 and not v4.0 makes loss of accuracy for all traditional D50 graphic arts applications.

7-8) 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 mask Excel ribbon (Point the ribbon with your mouse and use the mouse right button menu).

You can as well use **Excel FULL SCREEN display** (menu display ... Full screen) because you do not need Excel menus for making full use of **Colorsource** software. The Escape key allows switching back to normal Excel display mode.

7-9) CMYK_100%, CMYK_Gravure and CMYK_Print_&_Proof offer me all traditional ISO 12647-2, ISO 12647-3, ISO 12647-4 and ISO 12647-6 target Lab colors, but I want to match "Euroscale.icc" target colors!

Please see in "**CMYK_100% and CMYK_Gravure_users_guide.pdf**" how to compute your own color targets from target ICC profiles and record them as colorimetric CGATS measurement files.

7-10) Colorsource software search for the language at each start:

Each **Colorsource** application detects your keyboard language and configures the appropriate language **at first launch**. You have to save your application ("Ctrl s" or File/Save) for avoiding the application searching the language at each following launch.

7-11) Colorsource software cannot run on my Macintosh:

Yes, it can under Windows XP or Windows 7 or Windows 8.x.

7-12) OK but it cannot run them under MacOS X:

OK when we can find 300 US\$ mobiles Mac as for mobile PCs! Because **Colorsource** applications work very well on low cost PCs and on 10 years-old Win XP PC if needed, so that using expensive Macs would be as uselessly expensive at the time as using the latest iPhone!

Moreover, many excellent and free color management and applications now only run under Windows operating systems, including some of them that are 20 years old, so that the widest variety of color management applications and utilities experts need are only supported by Windows today. You can always use the results of these apps on your Macs.

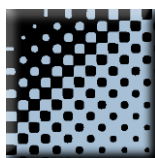
Any other question or suggestions?

support@color-source.net

CMYK_Print_&_Proof



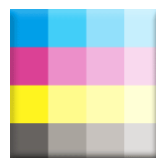
PLATE



CMYK_100%



CMYK_Gravure



SPOT_Color_Manager



SPOT_Gravure

