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SOLUTIONS FOR YOUR CREATIVITY

Colour management

FOR CERAMIC

SMALTOCHIMICA

CHEMICALS FOR CERAMICS

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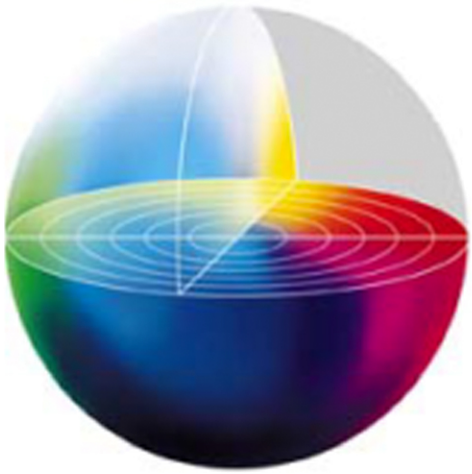
COLOR THEORY



- **RGB**

- **CMYK**

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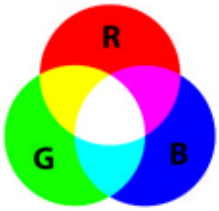
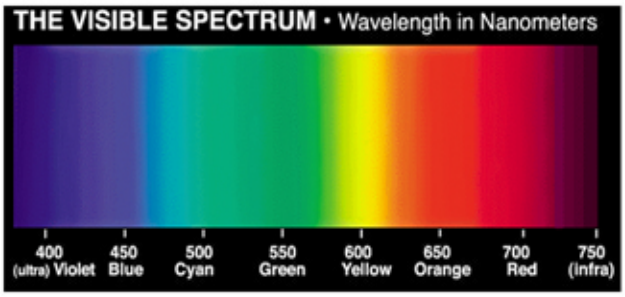
RGB

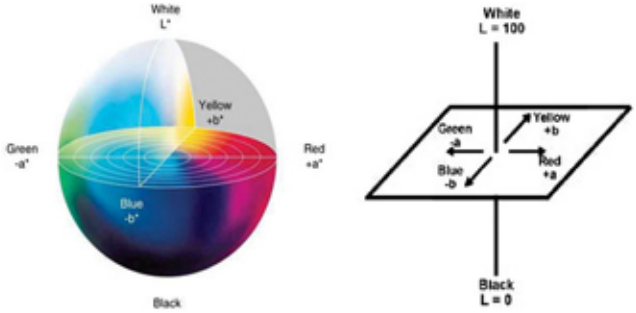


CMYK

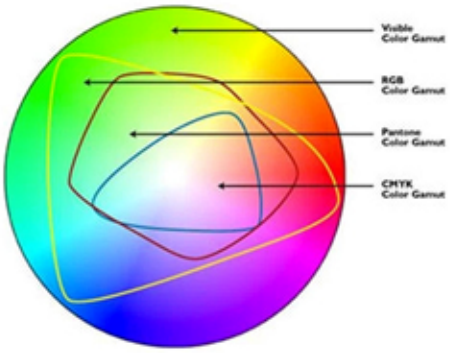
VISIBLE SPECTRUM



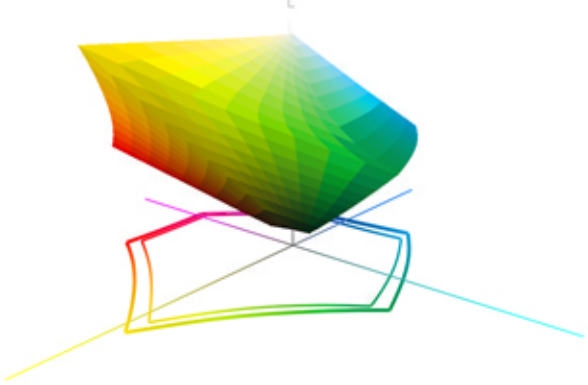
LAB VISUALIZATION



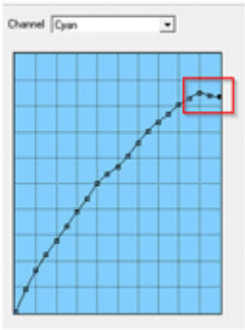
GAMUT 2D



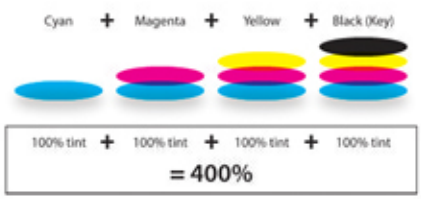
GAMUT 3D

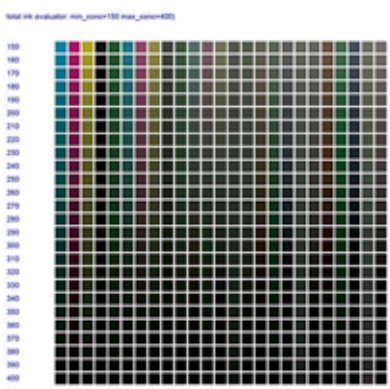


SINGLE INK LIMIT



TOTAL INK LIMIT

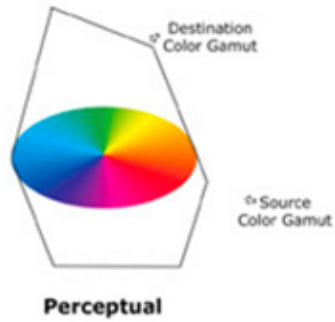




COLORIMETRIC INTENTS

COLORIMETRIC INTENT PERCEPTUAL

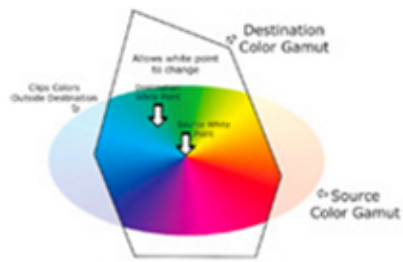
Compresses the color gamut of the source space into the gamut of the destination space to preserve the overall appearance of the image.



Perceptual

COLORIMETRIC INTENT RELATIVE

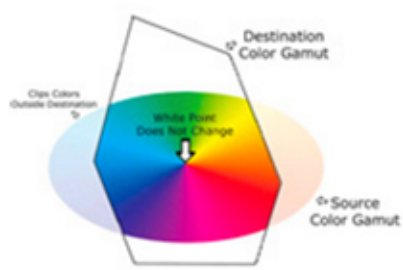
Colors that are outside of the destination gamut are clipped or forced to the edge of the gamut boundary. Colors within the gamut of the source and destination are not changed. Allows the white point of the source space to change to the white point of the destination substrate



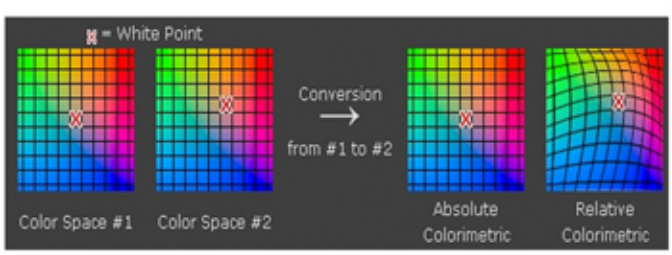
Relative Colorimetric

COLORIMETRIC INTENT ABSOLUTE

Creates exactly the colors that were in the original. Similiar to Relative Colorimetric but will NOT allow the white point to change and will clip colors.



Absolute Colorimetric



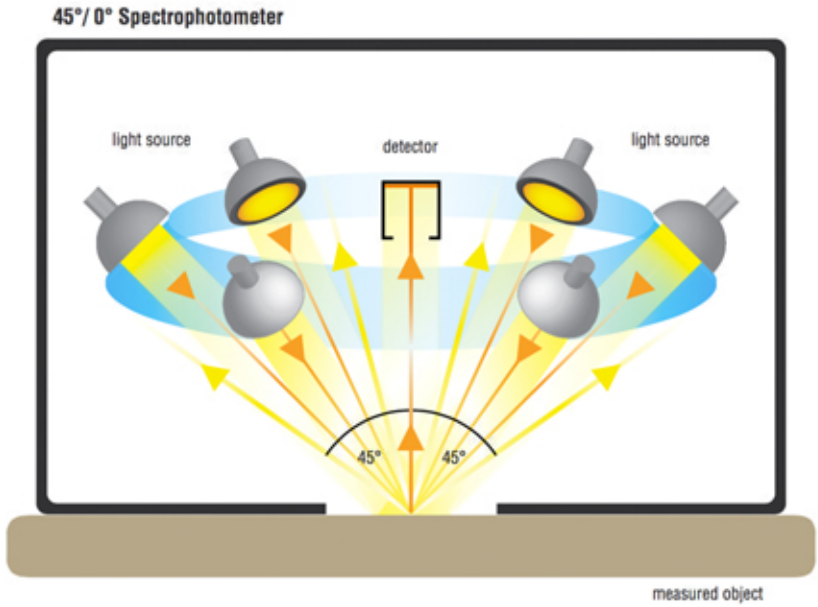
DIFFERENCE BETWEEN 0/45 AND SPHERE

0/45°

ADVANTAGES:
fast

DISADVANTAGES:
problem with extremely glossy or structured sufraces

USED FOR:
- standard spectrphotometers
- our rgb head

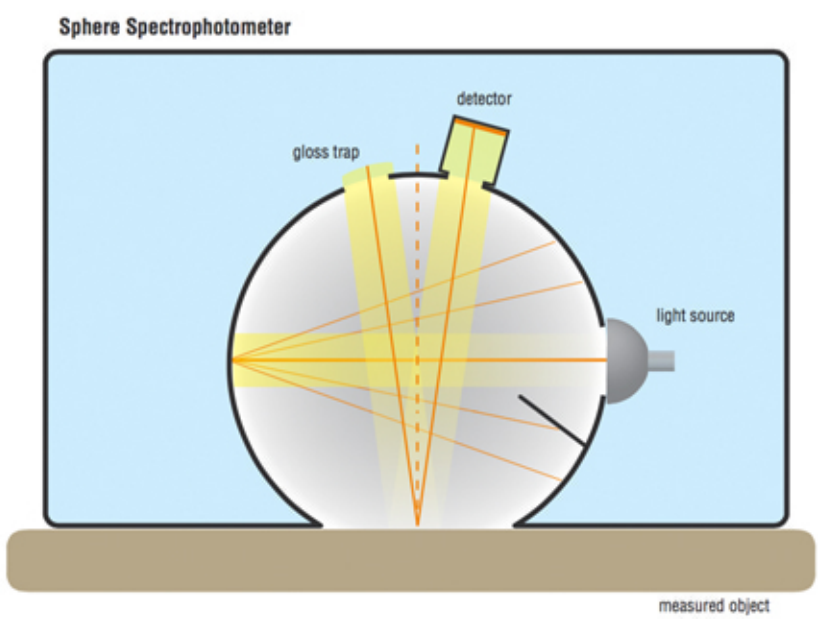


SPHERE

ADVANTAGES:
not affected if glossy or structured surfaces

DISADVANTAGES:
slow
more expensive compared to 0/45°

USED FOR:
- spectrophotometers for color formulation
- our hyperspectral scanner



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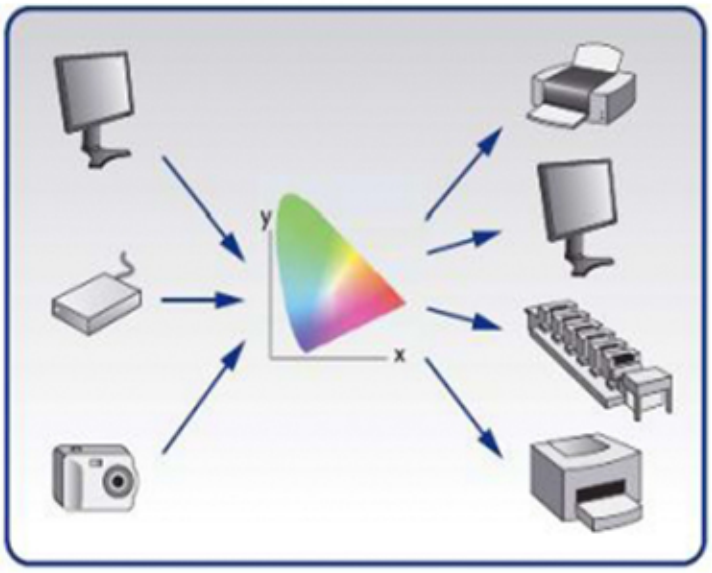
COLOR PROFILATION



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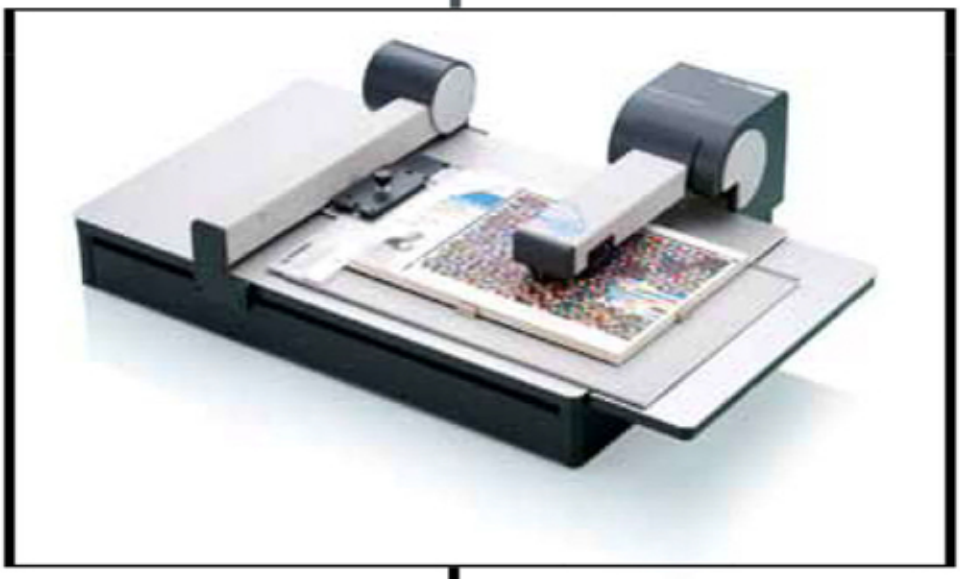
Spectro LFP Series 3

(cod. CSLFP)



Tool for automatic reading for reflection and transmission

- Maximum measuring area: 290 x 200mm
- Measuring geometry: 45 ° / 0 ° for reflection, d ° / 0 ° for transmission
- Measuring aperture switchable from 2 to 6 mm
- Three reading modes: automatic, single and density
- Automatic positioning of the target
- Thickness of the target up to 20 mm
- Spectral range: 380 to 780nm in steps up to 3.5 nm
- USB interface
- Physical Dimensions: length 571 mm, width 433 mm, height 160 mm
- Weight: 11 kg

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Spectrophotometer CSEO2BAS

Spectrophotometer 0/45° — *i1 Basic Pro 2*

reddot design award
winner 2012

Main characteristics:

- Combines precision in reading with versatility and manageability.
- Includes monitor support, environmental light filter slide for rapid reading and chart for scanner profiling
- Includes software for calibrating and profiling devices.
- Supplied with a convenient carrying case

Main functions:

- Calibration and profile creation for all types of monitors – LCD, CRT, Laptop
- Environmental light measurement
- Pre-programmed to accept additional software functions.purchase a desired add-on module.

ideal as an additional instrument

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Spectrophotometer CSEODIS3

Spectrophotometer	*i1 Display Pro*

Main characteristics:
- Easy to use
- Fast measurement
- Includes software for calibrating and profiling monitors.
- For PC and MAC

Main functions:
- Calibration and profile creation for all types of monitors – LCD, CRT, Laptop
- Digital projectors profiling
- Environmental light measurement
- Software i1 Profiler with “Basic” and “Avanced” mode.

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Automatic reading table

CSEO2AST

Robotic automatic chart reading system

i1iO

Main characteristics:

- Hands-free test chart reading
- Measurements for test charts on tiles up to 10 mm
- Multiple readings possibilities for the highest precision
- Works with any i1Pro device

Use:

- Automatic chart reading simply aligning the test chart.
- Quick profile creation for the maximum productivity
- Absolute precision
- Reduced chart dimensions in respect to the manual reading
- Can also be used to control the printer stability / output constancy

Technical characteristics:

- Measurement Speed up to 500 patches/minute
- Automatic calibration
- USB Interface
- Power Supply: Auto rating 100 to 240 VAC, 50/60 Hz
- Dimensions: 510 x 460 x 170 mm (Width x Depth x Height)

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Ceramic Profiling

CSEO2PUB

Icc profile creation with spectrophotometer

i1 Publish Pro 2

Main functions:

- Calibration and creation of profiles for all types of monitors – LCD, CRT, Laptop
- Profile creation for RGB, CMYK, CMYK + 4 chosen colors
- Profile creation for digital projectors
- Profile creation for digital cameras with ColorChecker included
- Test Chart creation
- Profile modification
- Math engine ***i1Prism***
- **Spectrophotometer included**

DEVICE	***i1 Publish 2***	EasyProf *Packaging*
Monitor Profiles	**X**	x
Digital Camera Profiles	**X**	x
RGB/CMYK Printers Profiles	**X**	x
CMYK+ max. 4 chosen colors Printers Profiles	**X**	x
Multicolor 10 chosen colors (without CMYK) Printers Profiles	**NO**	x
GOP	**NO**	x
Photoshop plug-in for management of Multicolor profiles license (automatic separation)	**NO**	3
Custom Test Chart creation	**X** *(only including CMYK)*	x *(without CMYK)*
Profiles modification	**X**	x

file: profpage *I1IO CHART* (4 mxd_inks, 5 stps, TIL: 400(360.0 x 360.0 dpi))

cyan (100.0) brown (100.0) yellow (100.0) beige (100.0) samples:625 (17 x 37) page 1 / 01

I1IO CHART

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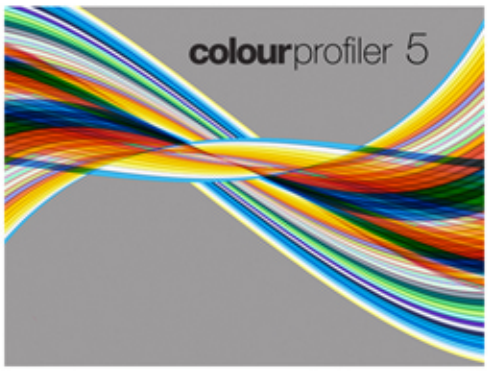
COLOR PROFILATION USING COLOUR PROFILER



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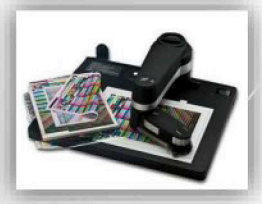
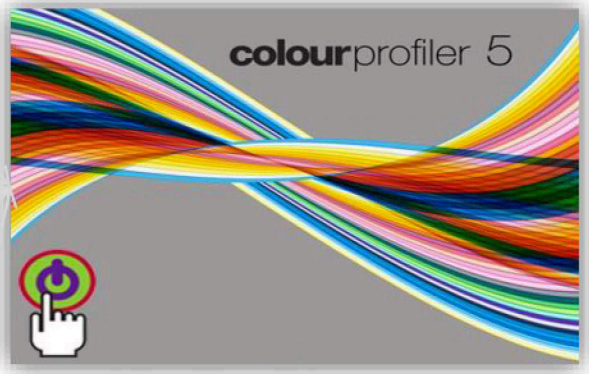
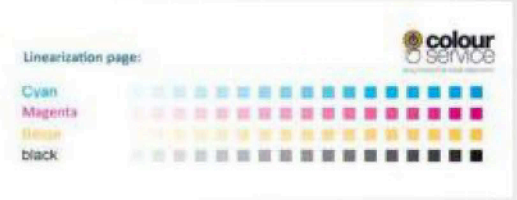
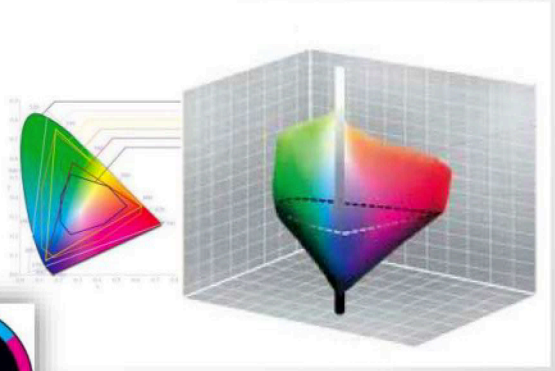
OUR SOFTWARE: COLOUR PROFILER 5

A complete solution for ceramic color management

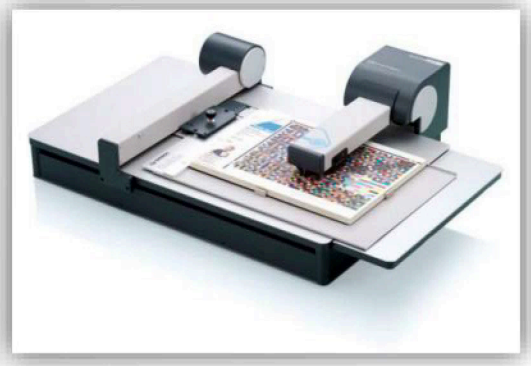








The software may work also with the best commercial hardware in the market….



sales, installation, consulting, training and support

COLOUR PROFILER ADVANTAGES:

COLOR PROFILE (GAMUT) CREATION
AUTOMATIC CREATION of «ICC» PROFILES ICC profiles created by the software to assign in Photoshop for a perfect ceramic preview
PROFILING (CLOSED RING)
PREVIEW RENDERING Monitor preview of final result: IN-Gamut / OUT-of-GAMUT percentage
SOFT PROOFING ON PAPER Final ceramic result simulated on paper printers
PROFILING ON STAINED GLAZES Optimization of the image for the colored glaze
DEVICE LINK Automatic transformation of the printing files from a printing process to another one
CHECKING AND COMPARISON Controls of the consistency (in time) of the process and analysis and comparation

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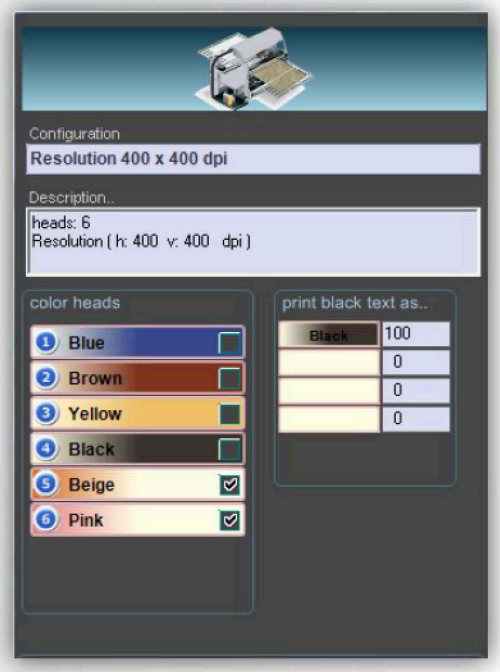
COLOR PROFILE (GAMUT) CREATION 1 of 2

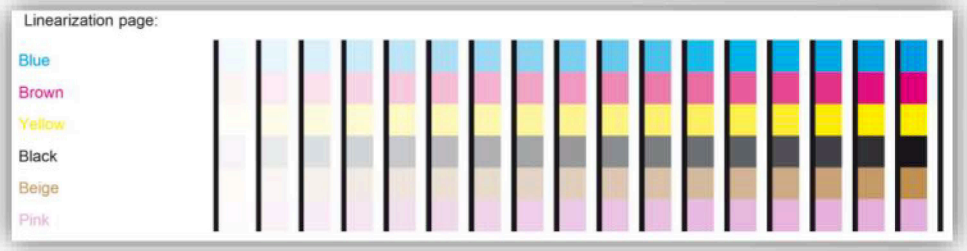
Analyze the single ink grow and the max intensity

A. DATA LOADING



Define before to print the inks order and the printing resolution, the software will prepare images ready to print!

B. LINEARIZATION



C. TOTAL INK LIMIT

Analyze the total ink limit to avoid inks problem on the print out and use only the correct quantity of ink

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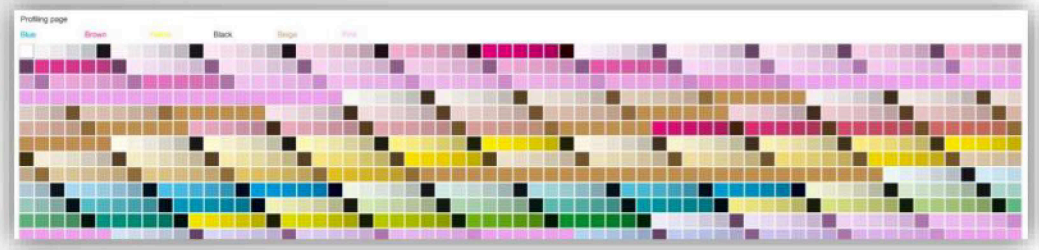
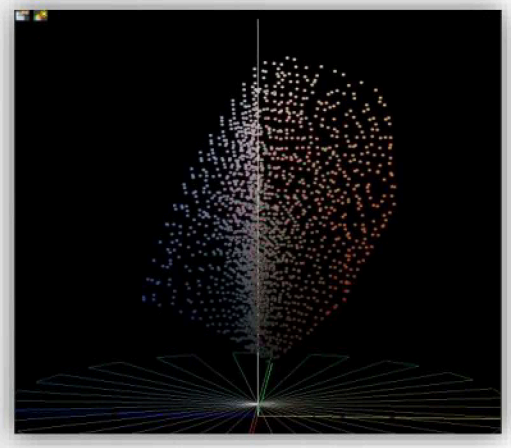
COLOR PROFILE (GAMUT) CREATION 2 of 2

D. PROFILATION

Mix the inks to know all the possible combinations of color (gamut)

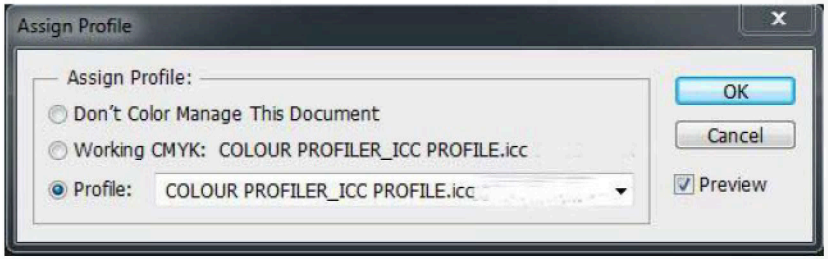


E. GAMUT CREATION



Gamut calculation, «know the color possibilities» of the analyzed printing condition

F. ICC PROFILE CALCULATION



Calculate the ICC profile to use in the graphic software (Photoshop) for a perfect ceramic preview

And later?

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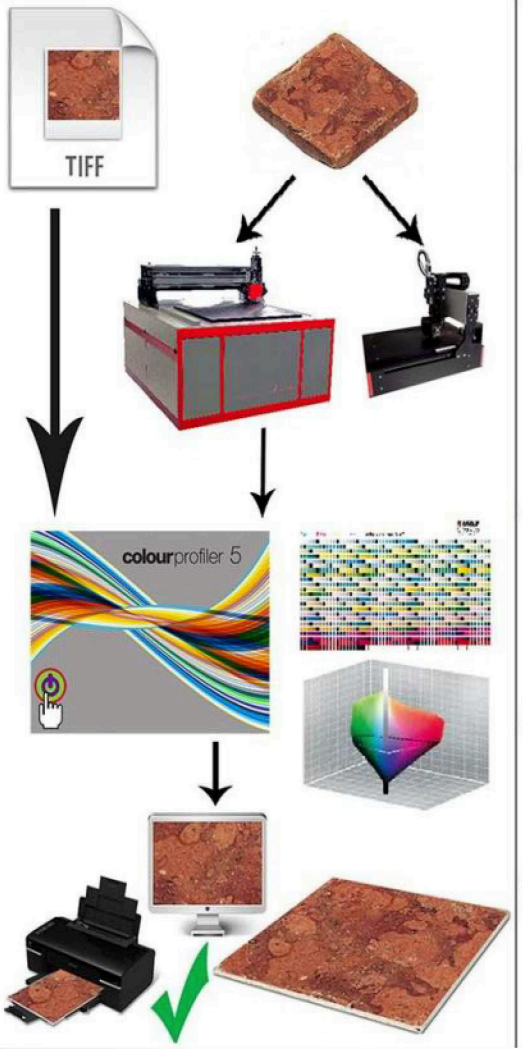
THE colour service IDEA ABOUT COLOR MANAGEMENT

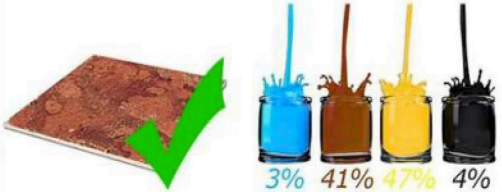
PROFILATION



DEVICE LINK - Variation in ceramic line

2nd production

Device link with Colour Profiler:



DEVICE LINK - Variation in production conditions

MASTER:

PLANT: A
PRINTER: X
INKS: £

1st CONVERSION:

PLANT: A
PRINTER: X
INKS: $

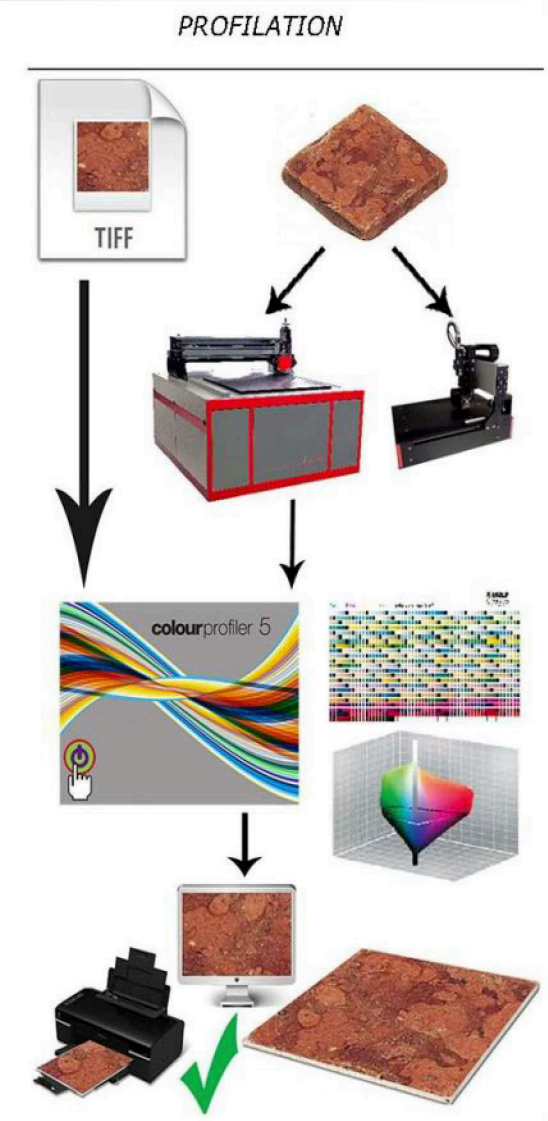
2nd CONVERSION:

PLANT: A
PRINTER: Y
INKS: €

3rd CONVERSION:

PLANT: B
PRINTER: Y
INKS: &

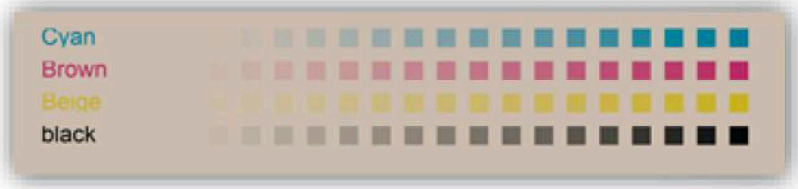
PROFILATION



Starting from a spectral or a graphic file (tif), the software is able to generate the best possible output based on the available printing color gamut.

Colour Profiler software is able to work also with colored glazes, allowing the user to achieve reproducible shades not exclusively with the color of the inks:

Less printhead «stress»
Reduction of the Inks' consumption

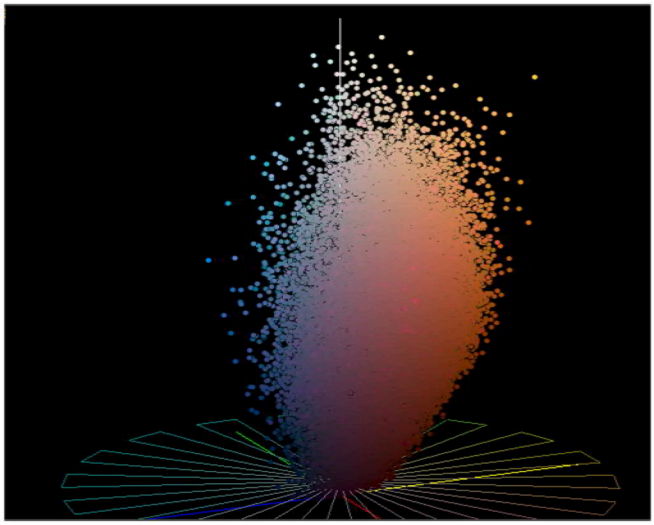


A good monitor preview and the possibility to generate a soft proof on paper (using a photographic paper color printer) allow the user to work in a fast, precise way

PROFILATION OF A NEW FILE

A) rgb image coming from different origins

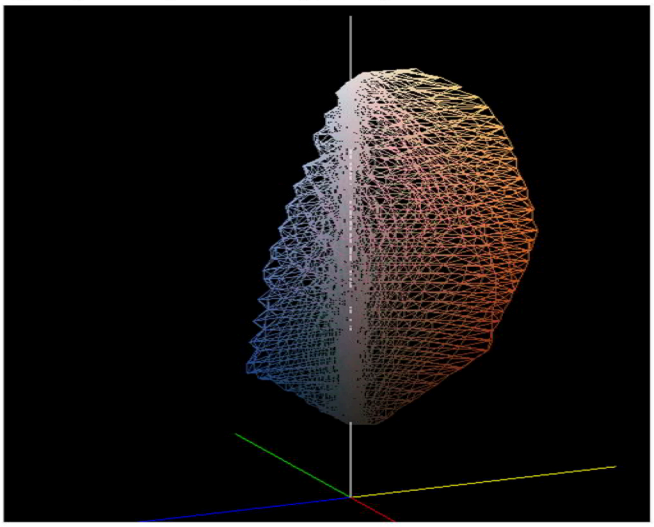
(the color gamut of the image)



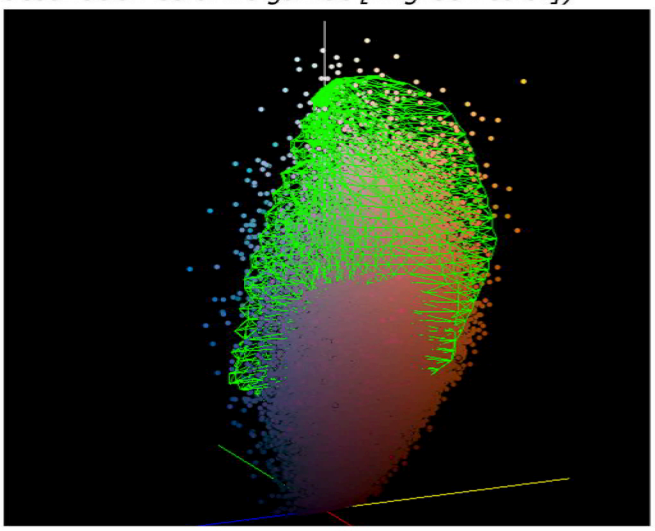
B) Profilation using Colur Profiler

Selection of the destination printing gamut and the colorimetric intent

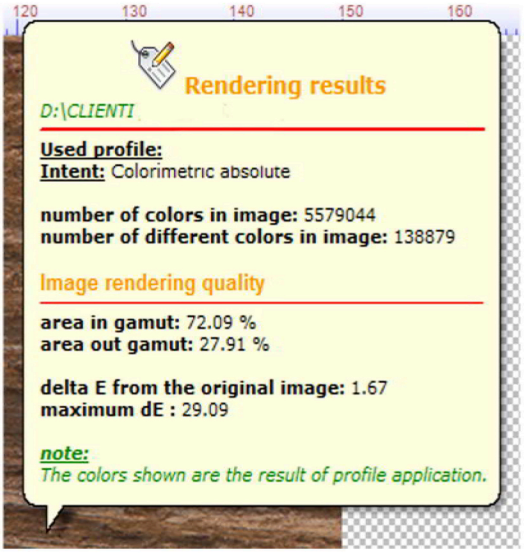
(the printing ceramic gamut)



(the color gamut of the image compared with the destination ceramic gamut [in green color])



C) Preview of the result with numerical and graphic indication of IN and OUT of gamut



D) Preparation of the file to the print

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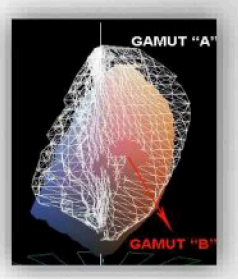
PROFILING: CHECKING AND COMPARISON

A precise preview allows to choose in advance the best printing condition for a project.



Original image

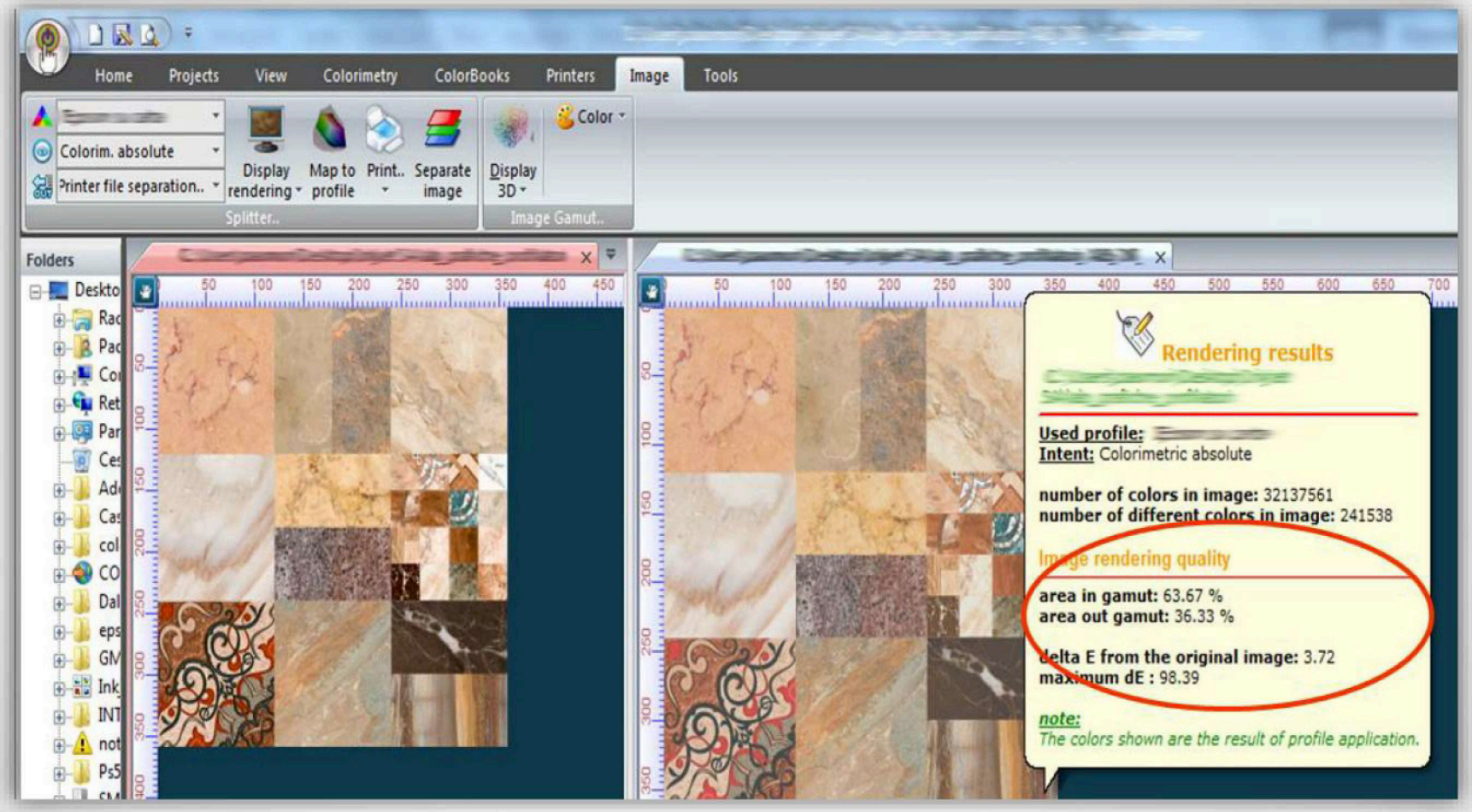
Printing condition A

Printing condition B

The simulation is done directly on the file that need to be printed

PROFILING: PREVIEW RENDERING

Preview of the result with the % indication of the area IN and OUT of gamut.
Indication of the Delta E from the original image



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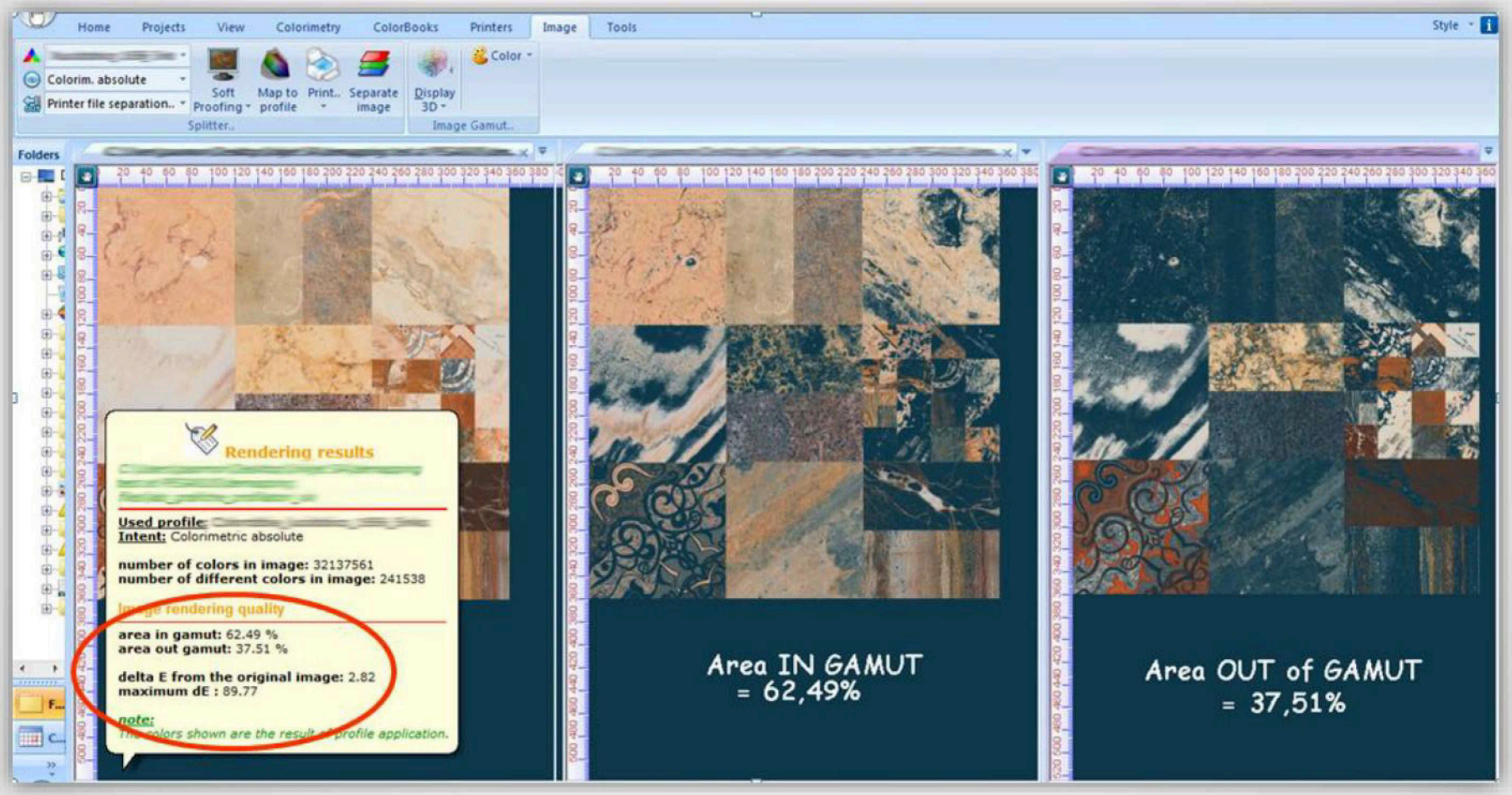
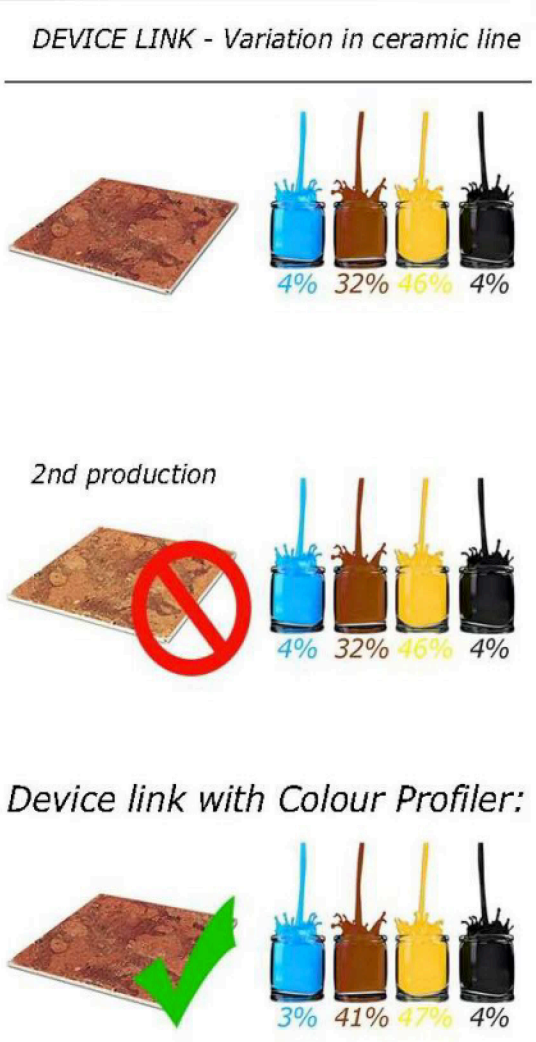
PROFILING: PREVIEW RENDERING

Graphic indication of the area IN and OUT of gamut



Perfect to know (if necessary) which area of the file needs a correction with a graphic software

DEVICE LINK – Variation in ceramic line



Optimization and standardization of the process variables «transportability» of digital projects (move the project to another condition).

The software can help in order to «move» an existing production to a new printing condition.
Immediately will be possible to know if the result will be ok in another production line.

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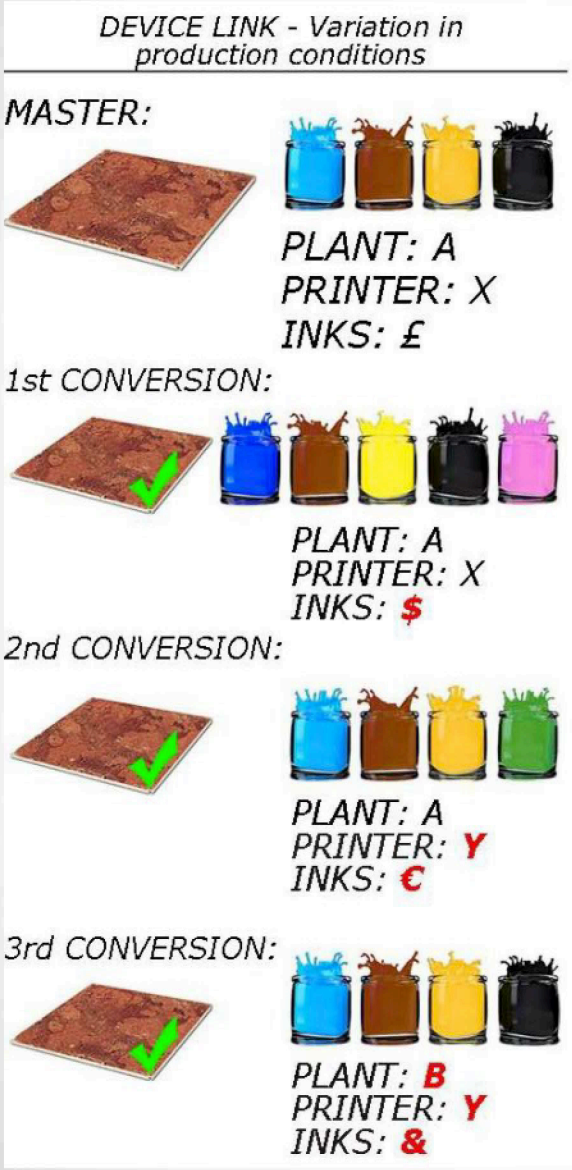
DEVICE LINK – Variation in production conditions



Optimization and standardization of the process variables «transportability» of digital projects (adapt the project to a production variation)

The software can help in order to reduce the time requested to return in production.

colourprofiler 5

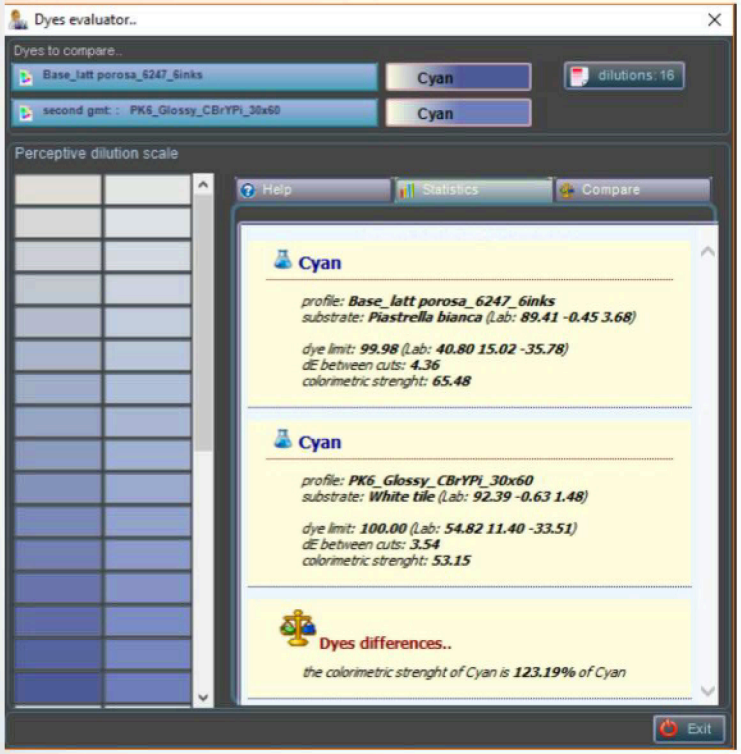
DEVICELINK

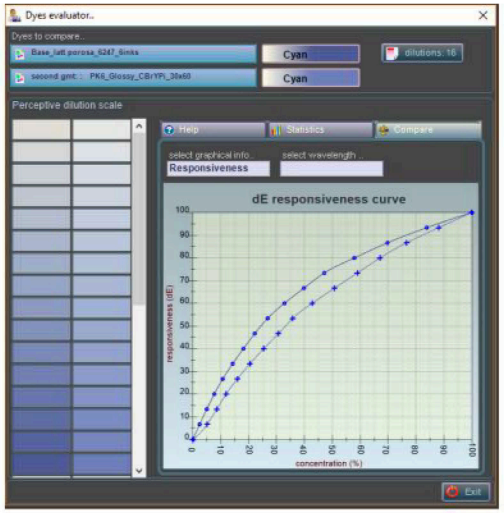
Some examples….

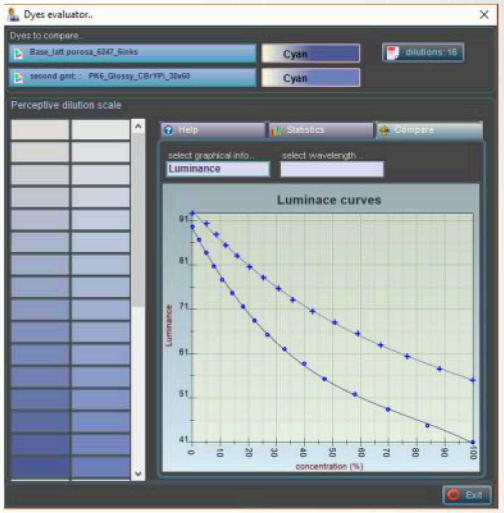
colourprofiler 5

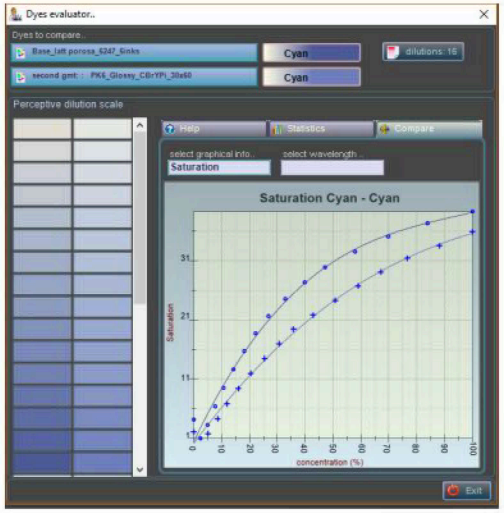
CHECKING AND COMPARISON

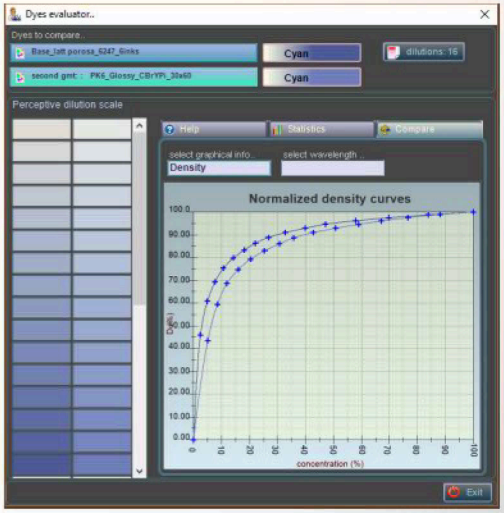
Compare a single ink to another one to know immediately which one is better for the specific ceramic request's.







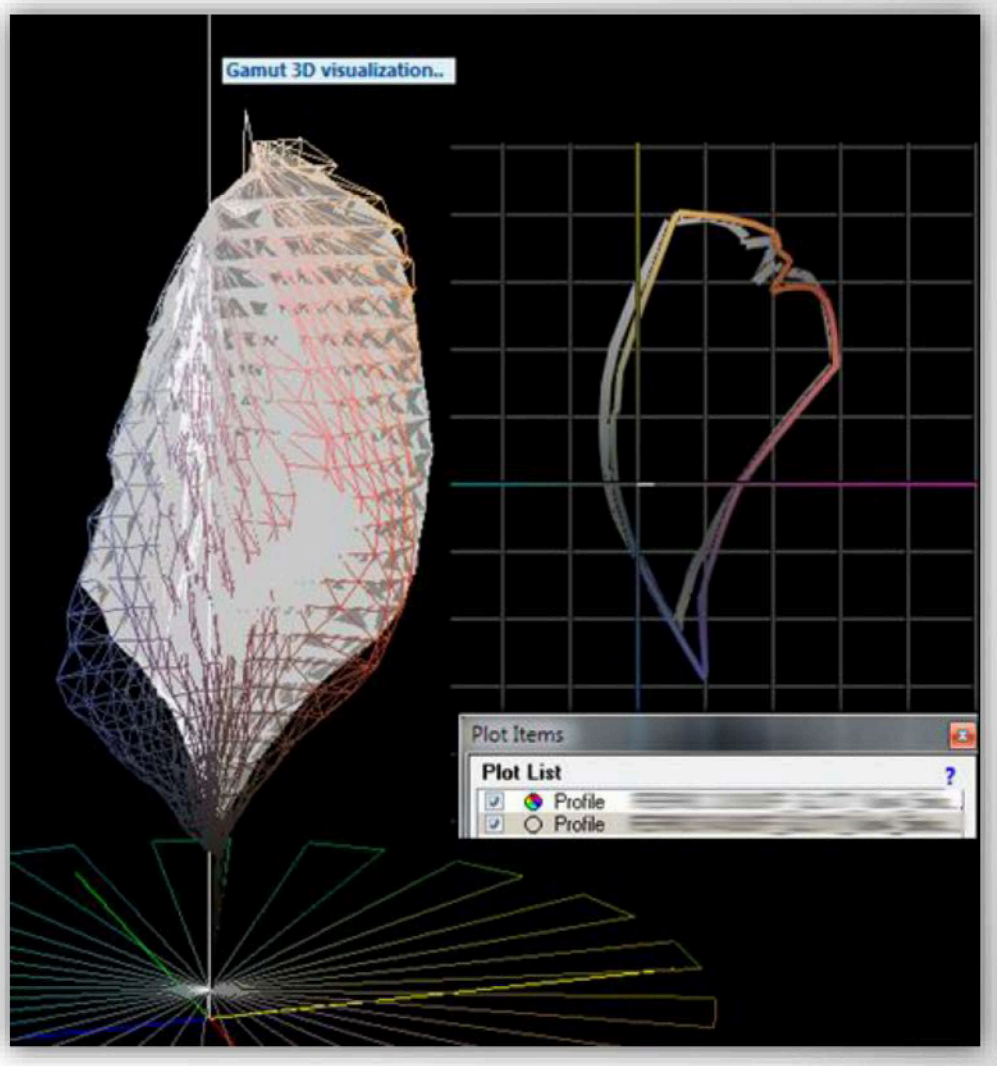




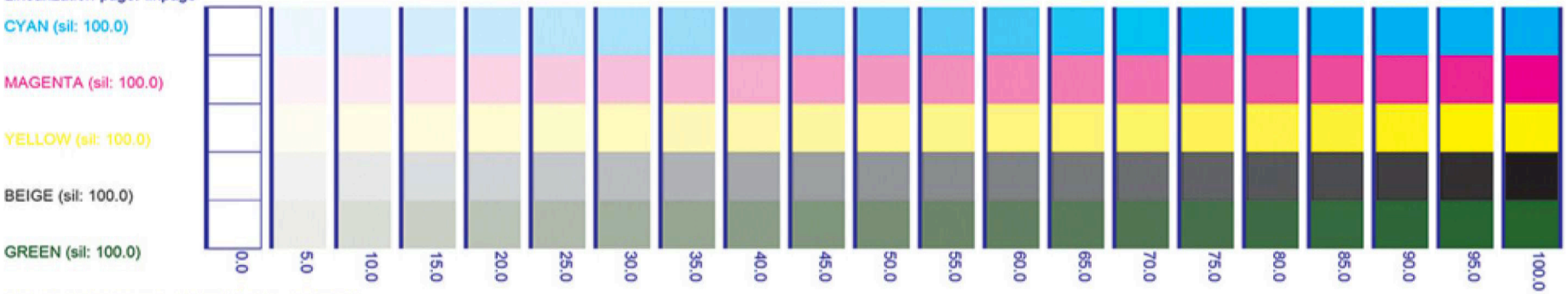
CHECKING AND COMPARISON

DIFFERENT GAMUT COMPARISON

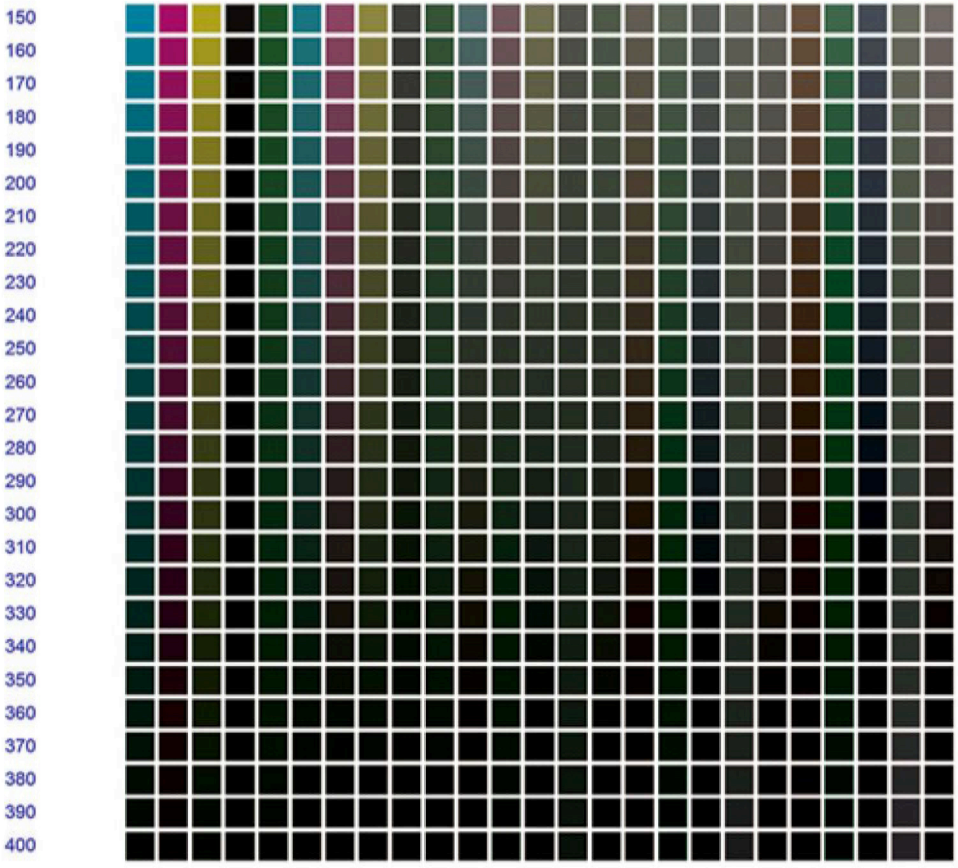
Comparing different color gamut's
to know immediatelly which one
cover better the production's request

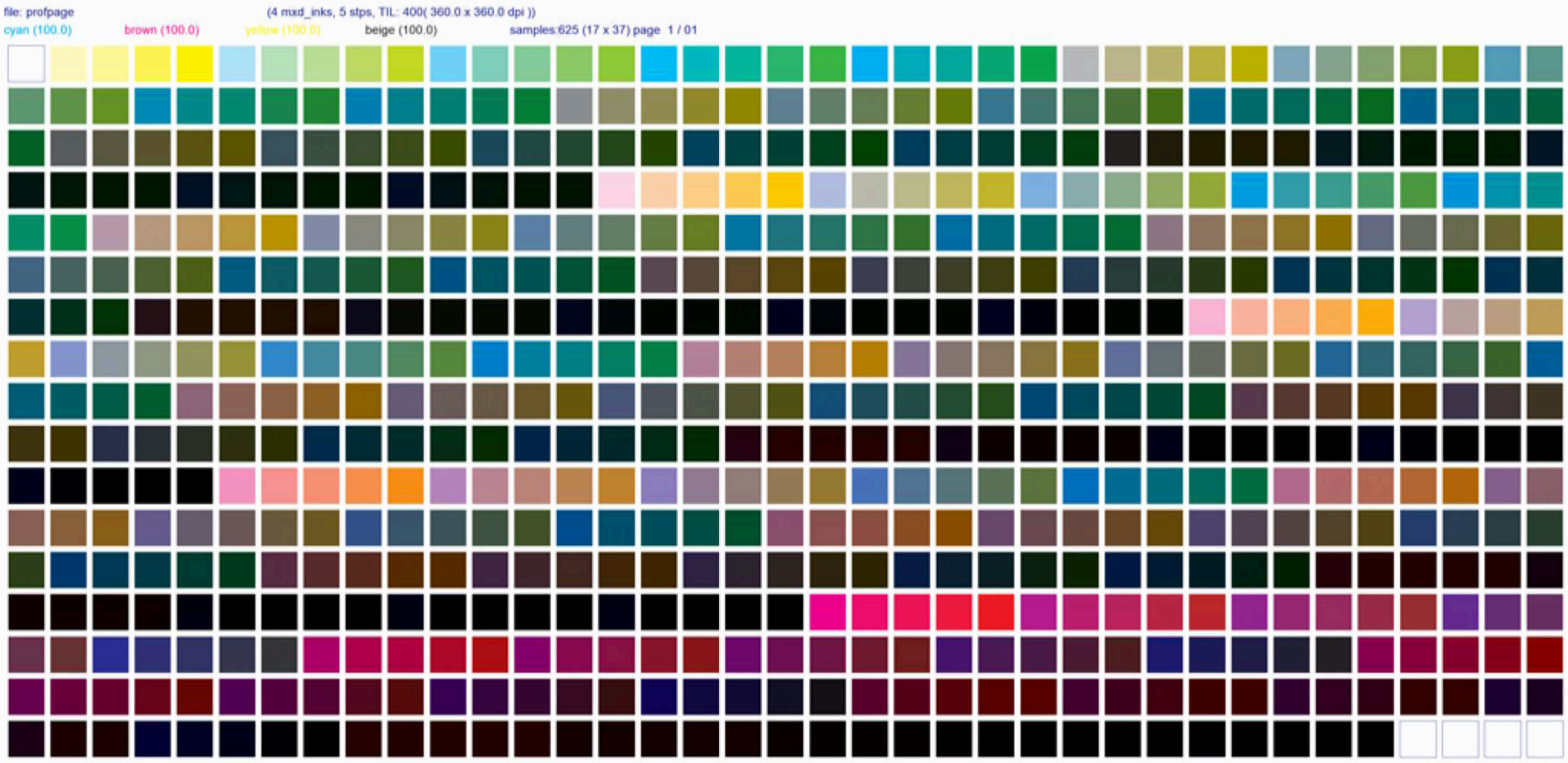


Linearization page: linpage

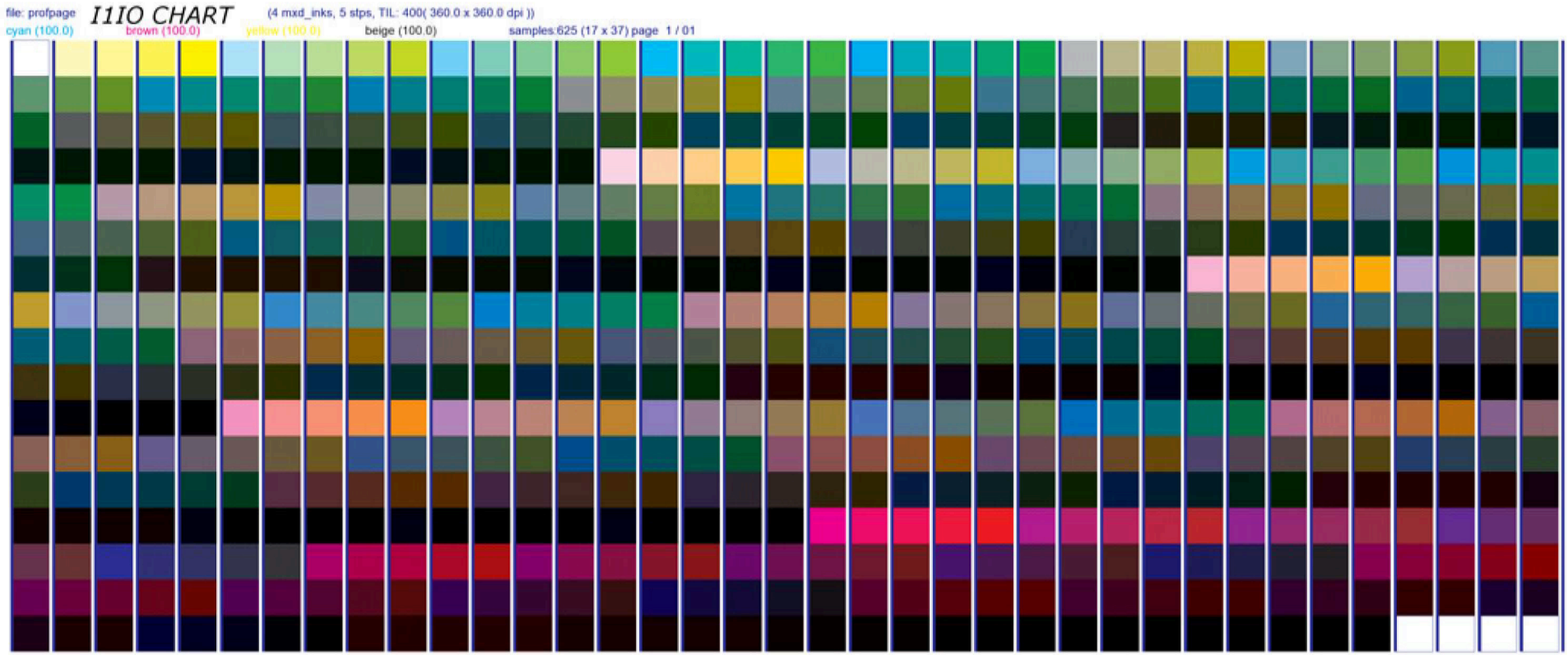


total ink evaluator: min_conc=150 max_conc=400)



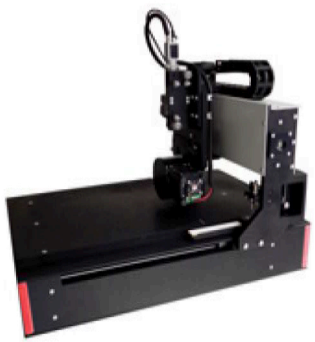


BARBIERI CHART

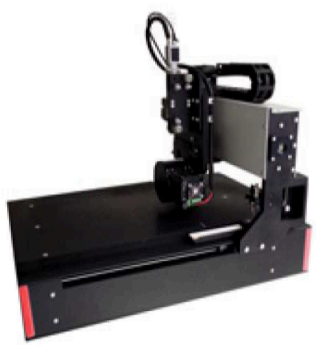

file: profpage
I1IO CHART
(4 mxd_inks, 5 stps, TIL: 400(360.0 x 360.0 dpi))
cyan (100.0)
brown (100.0)
yellow (100.0)
beige (100.0)
samples:625 (17 x 37) page 1 / 01

I1IO CHART

SPECTRAL SCANNER CHART (LITTLE PATCHES)



SPECTRAL SCANNER CHART (BIG PATCHES)



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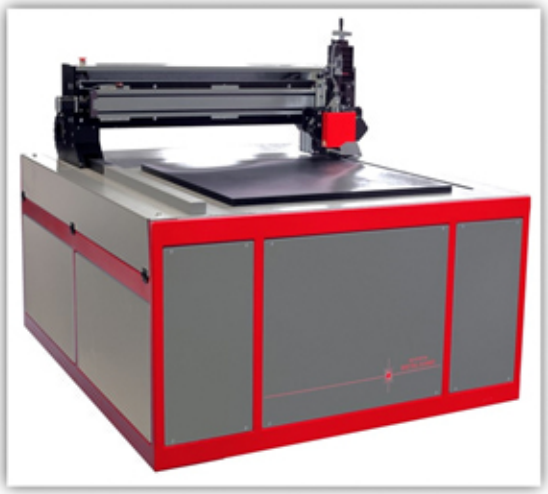
HYPERSPECTRAL SCANNER



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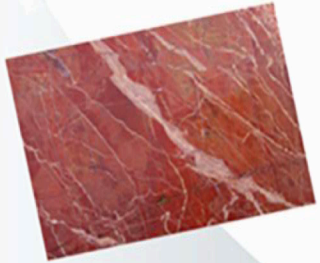
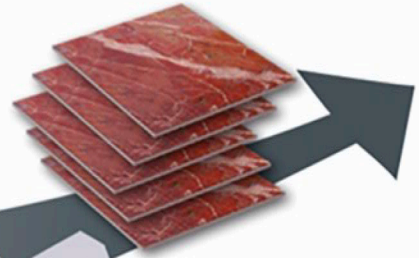
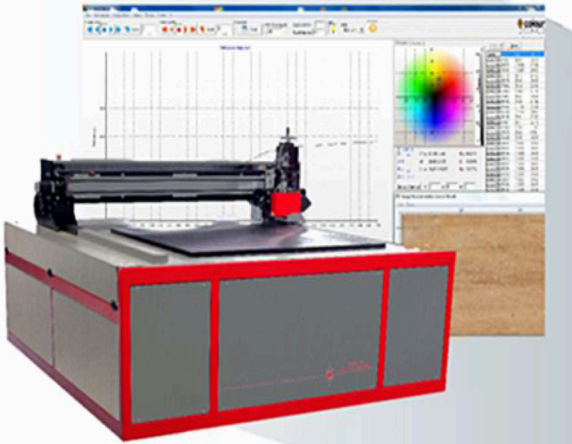
SUBJECT / *SOGGETTO*



GOAL !!!





PROFILATION / *PROFILAZIONE*

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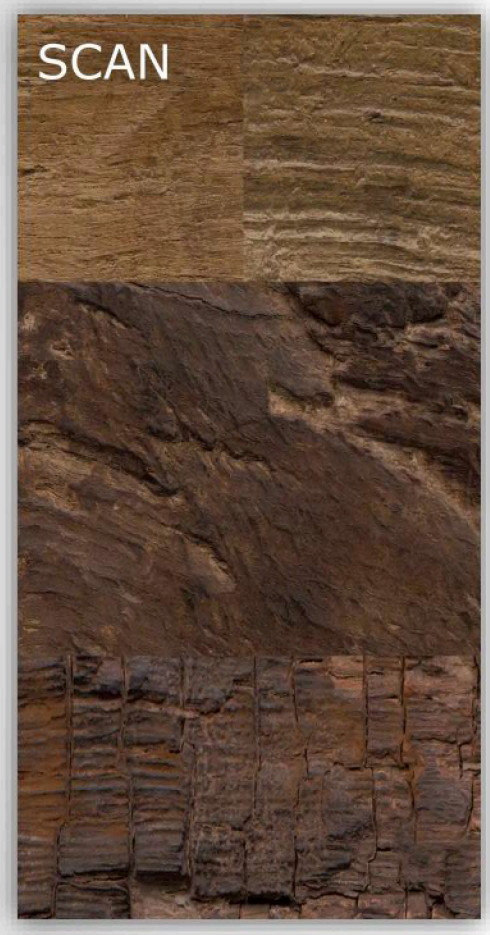
PRODUCTION / *PRODUZIONE*

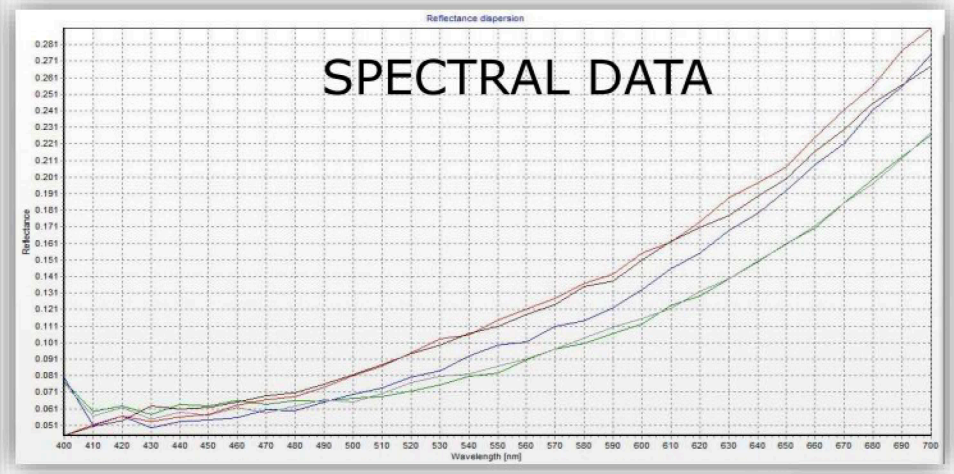
ACQUISIZIONE / *ACQUISITION*

PAPER SOFTPROOF / *ANTEPRIMA SU CARTA*

VISUALIZZAZIONE / *VISUALIZATION*

ADVANTAGE OF THE SCANNER : One reading for numeric and graphic data





With one single scan not only the graphic of the image but also the spectral data (for every color point of the image)

Our solution for capturing graphics and color measurement:

Hyper spectral scanner 400

Acquisition dimension: 400x400 mm

Spectral range: 370 – 730 nm

Type of files: spectral, graphic files (.tif)

Resolutions: from 100 dpi to 400 dpi

Our solution for capturing graphics and color measurement:

Hyper spectral scanner 1000

Acquisition dimension: 1000x1000 mm

Spectral range: 370 – 730 nm

Type of files: spectral, graphic files (.tif)

Resolutions: from 100 dpi to 640 dpi

SCANNER 1000, available also with optional heads:

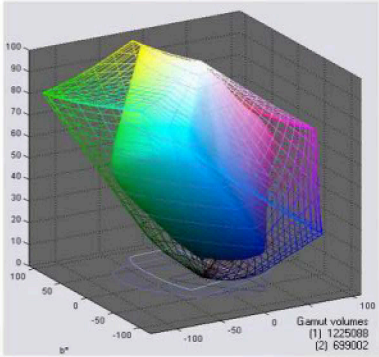
RGB HEAD:

Very fast, high definition, without spectral data, perfect when the acquired subject is only "a starting idea" in the realization of the ceramic printing file.

Resolution: 360 and 720 dpi

Type of file generated: tif RGB (no spectral data)

Time of acquisition: 1mt x 1mt in maximum 60 minutes



SCANNER 1000, available also with optional heads:

3D HEAD:

A new system to read the structure of a subject in order to reproduce it in ceramic

Type of file generated: tif greyscale

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COLOR FORMULATION

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Spectrophotometer CI 60

Portable instrument X-Rite CI 60

Characteristics:

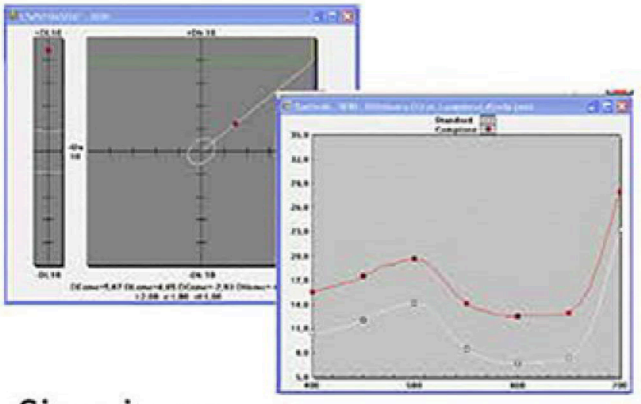
- Portable instrument with internal memory
- Spherical geometry measurement for better quality
- PTFE sphere, high reflectancy and long lasting
- Spectrum measurement from 400 to 700 nm
- Reading area 8 mm
- Long life battery
- Furnished with carrying case
- Without external interface

Use:

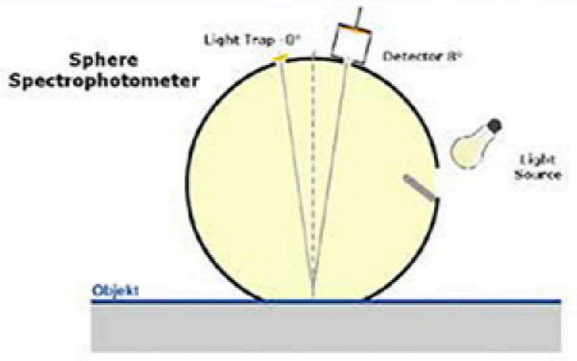
- Color measurement
- Metamerism control
- Quality control

Management:

Portable with memorization of readings
Instrument without external connections



The Sphere Geometry d/8°



Sizes in cm:

21.3	9.1	10.9
Weight 1.1 kg		

Colourservice s.r.l.
Via del Crociale, 56 - 41042 Spezzano di Fiorano M. (MO)
Ph +39 0536 845055 - Fax: +390536843600
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Spectrophotometer CI 62

Portable instrument X-Rite CI 62

Characteristics:

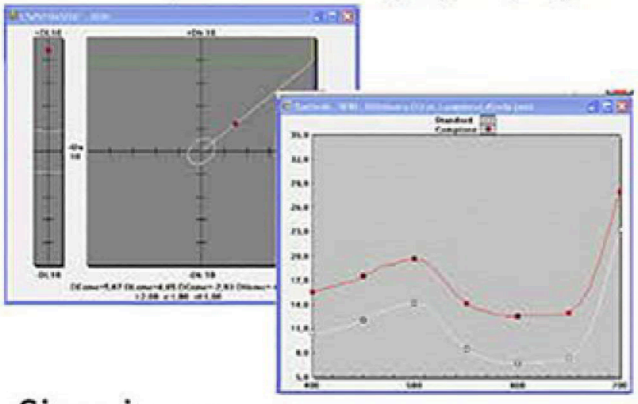
- Portable instrument with internal memory
- Spherical geometry measurement for better quality
- PTFE sphere, high reflectancy and long lasting
- Spectrum measurement from 400 to 700 nm
- Reading area 4/8 mm
- Long life battery
- Furnished with carrying case
- With Usb and Bluetooth interface

Use:

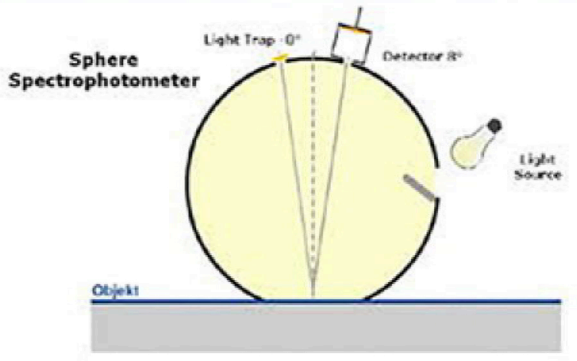
- o Color measurement
- o Metamerism control
- o Quality control

Management:

Portable with memorization of readings
Connectable to Iride and Iride Web Edition software's, for reformulation, quality control and development of new graphic projects



The Sphere Geometry d/8°



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Weight 1.1 kg		

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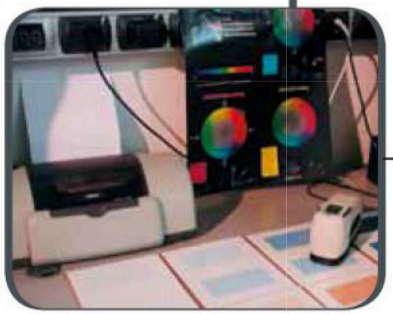
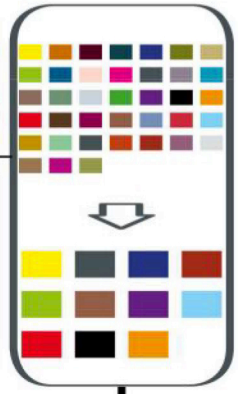
Iride

(cod. CSIRIDE)





SP62

(cod. CSSP62X)

Computerized formulation and correction system IRIDE

IRIDE is the interface between the automatic dosage management system used in the tintometers "Eurorotomix", "Tintoretto", "Michelangelo", "Raffaello" and "Giotto" and the formulation software "FM3 Ceramics".

Colour Service and **X-Rite** Italia have processed and developed a colour reading program on vitrified ceramic frame, with the use of a sphere spectrophotometer.

FM3 CERAMICS formulation system

- Reproduction of any colour on ceramic form
- Characterization of the support on which ink and glaze will be applied
- Colouring quality control
- Correction and simulation on screen with vue-rite feature
- Recovery of unused remaings and waste product
- Formulation calculation with 4 variations: metamerism, interpolation, curve and cost

Spectrophotometer

- Portable, light easy to handle tool.
- Features 10.9 x 8.4 x 7.7 cm. weight kg 1.1
- Sphere measurement geometry d/8°
- High reflectance, long lasting "Spectralon®" sphere
- Choice of reading area 4-8-16 mm
- Lighting source with tungsten lamp (500.000 flash)
- Spectral field from 400 to 700 nanometers with 10 nanometer interval
- Time of measurement 2.5 seconds
- Replicability 0.05 E A B
- Simultaneous sample included and excluded specular component
- Memory for 2000 measurements and 1024 standards
- Supply 220v. 50hz + batteries and power cable recharge
- Black and white standard calibration

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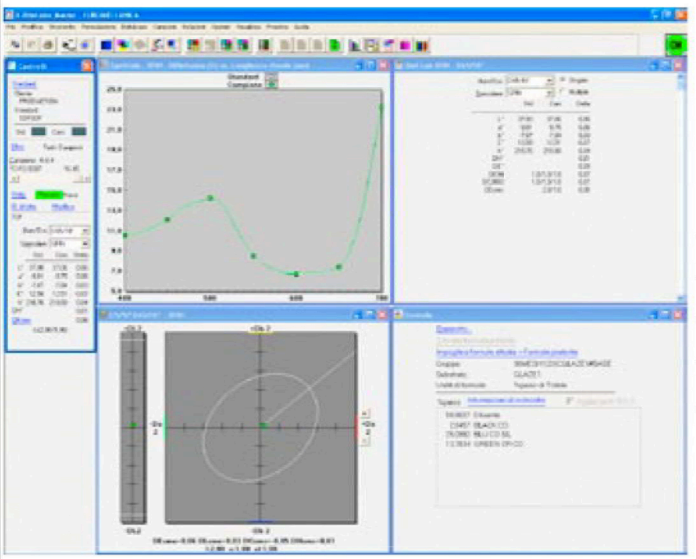
Colorimetry CSIRIDE

Software for automatic formulation for Ceramics with Spectrophotometer



Characteristics:

- Formulates any ceramic color, automatically, starting from a customized database, developed through reading with a spectrophotometer

Main functions:

- Formulation
- Correction
- Recovery of color meter waste
- Recovery of batch waste
- Quality control

Advantages:

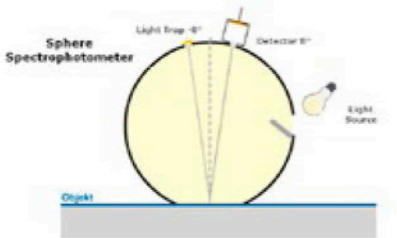
- Allows rationalization of the number of pigments
- Reduces formulation times
- Choice of formula by grade and cost

Portable spectrophotometer X-Rite SP62

Characteristics:

- Portable instrument with internal memory
- Spherical geometry for better ceramic precision
- Spectralon® sphere with high reflection and long lasting
- Spectrum measures from 400 to 700 nm
- Reading area ø 8 mm.
- Long life battery

The Sphere Geometry d/8°



Sizes in cm.

10,9	8,4	7,7
Weight Kg. 1,1		

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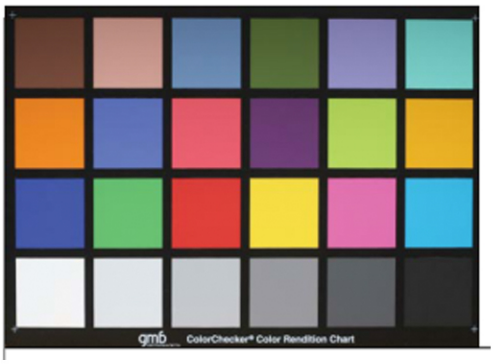
COLOR QUALITY



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SOLUTIONS FOR YOUR CREATIVITY

RM200QC

Portable Imaging Spectrocolorimeter

x-rite

PANTONE®

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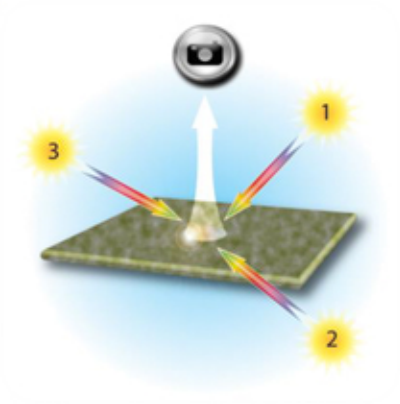
Your distributor for ceramic sector

PRODUCT ADVANTAGES



Robust design with extended capabilities to address challenges in your QC/QA flow

- Visible/recordable measurement image
- Better agreement with visual check thanks to 45/0 optical geometry and unique image capture technology
- Better tolerance to sample profiles and textures (uneven and curve surface) with variable aperture size (4 & 8mm)

- Independent tri-directional illuminated image capture.
- 27 color accurate images in just over 1 second.
- 3 dimensional color accurate image.

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RM200QC PRODUCT SPECIFICATION

- **Measuring Geometrics**: 45/0 Image Capture
- **Light Source**: Independent tri directional 25 LED (8* visible wavelengths; 1* UV)
- **Illuminant/Observer:** D65/10 and A/10
- **Standard/Sample Storage:** 20/350
- **Measuring Time**: 1.8s
- **Measuring Area:** 4 & 8 mm
- **Short Term Repeatability**: Typical 0.1 DE 94 on white (D65/10)
- **Display**: 4.5cm Color TFT
- **Data Interface**: USB (Mass Storage Device)

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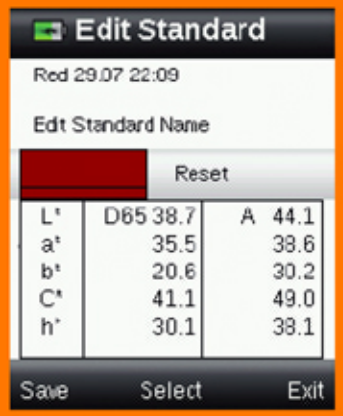
RM200QC FEATURES

Quickly and easily measure and compare samples with intuitive user interface.



Create and store up to 20 standards using the averaging function for highest accuracy.

Measure samples and display Pass/Fail warnings. Save up to 350 samples with voice or text tags

Simple to understand color plot shows the difference between standard and sample.

- Simple QC without need for connection to lab type software.
- Standards are measured on the device (no import/export).
- Display the L*a*b* value for standard and sample under D65 and A.
- One tolerance setting which applies to all with “Pass/Fail” indicator.
- Display ΔE for all common methods i.e. CIELAB, CMC, CIE 94, 2000

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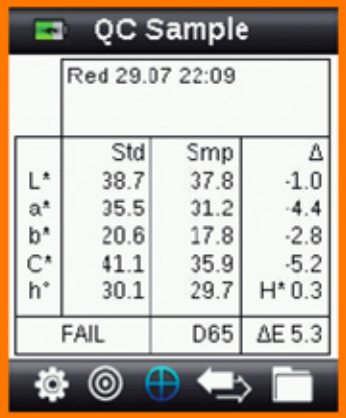
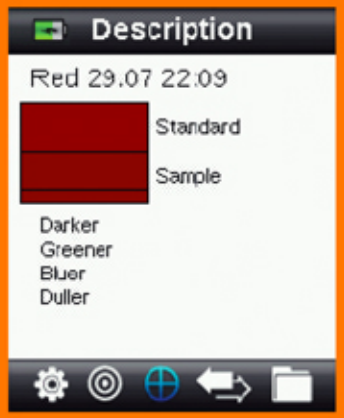
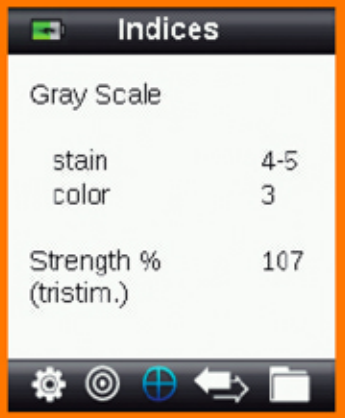
RM200QC FEATURES



RM200QC provides accurate L*a*b*C*H* standard, sample and color difference values.



Verbal color descriptions help to understand and describe the direction of color difference



Gray Scale and Strength functions are included for textile assessment. RM200QC offers superior ergonomics for this application and improved performance (compared to visual evaluation).

On board Opacity measurement provides accurate and flexible functionality for coatings and plastics.

Versatile and Flexible

- Quick compare mode(without sample saving) offers more flexibilities and higher efficiency for heavy workload
- On board gray scale and opacity modes

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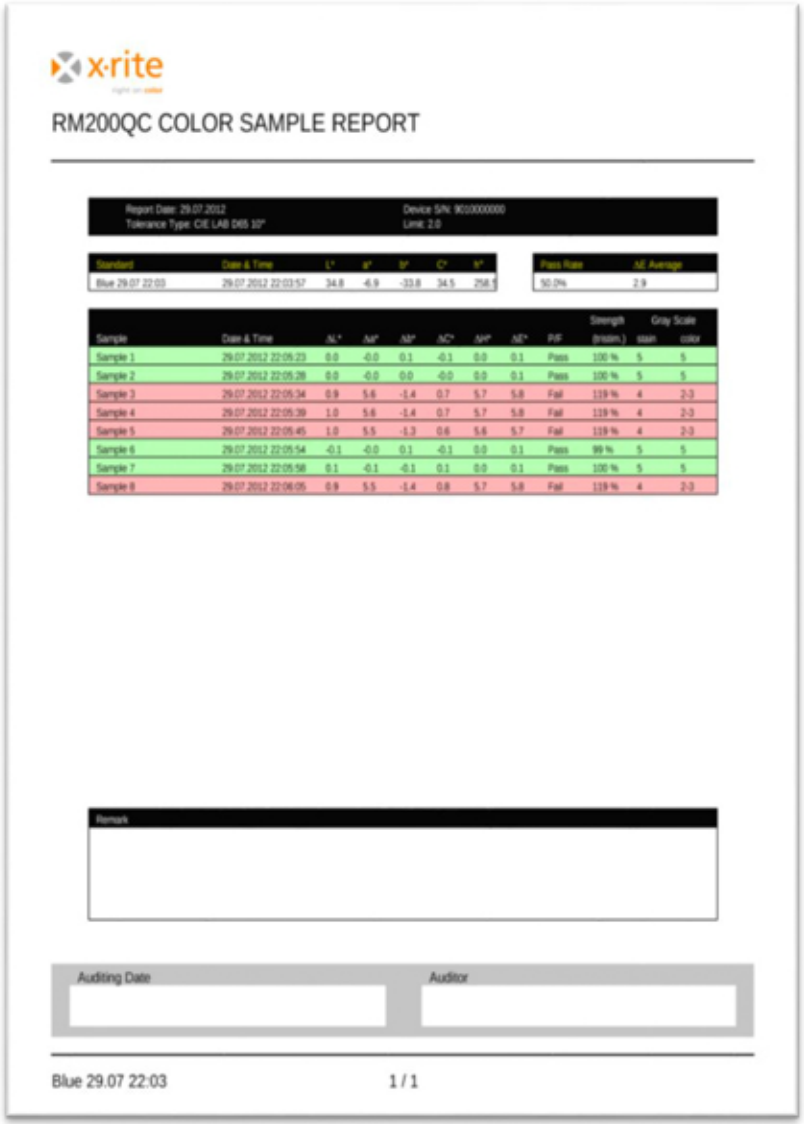
RM200QC REPORTS



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RM200QC COLOR SAMPLE REPORT

Report Date: 29.07.2012 Device S/N: 9010000000
Tolerance Type: CIE LAB D65 10° Limit: 2.0

Standard	Date & Time	L*	a*	b*	C*	h°
Blue 29.07 22:03	29.07.2012 22:03:57	34.8	-6.9	-33.8	34.5	258.5

Pass Rate	ΔE Average
50.0%	2.9

Sample	Date & Time	ΔL*	Δa*	Δb*	ΔC*	Δh*	ΔE*	P/F	Strength (master.)	Gray Scale stain	Gray Scale color
Sample 1	29.07.2012 22:05:23	0.0	-0.0	0.1	-0.1	0.0	0.1	Pass	100 %	5	5
Sample 2	29.07.2012 22:05:28	0.0	-0.0	0.0	-0.0	0.0	0.1	Pass	100 %	5	5
Sample 3	29.07.2012 22:05:34	0.9	5.6	-1.4	0.7	5.7	5.8	Fail	119 %	4	2-3
Sample 4	29.07.2012 22:05:39	1.0	5.6	-1.4	0.7	5.7	5.8	Fail	119 %	4	2-3
Sample 5	29.07.2012 22:05:45	1.0	5.5	-1.3	0.6	5.6	5.7	Fail	119 %	4	2-3
Sample 6	29.07.2012 22:05:54	-0.1	-0.0	0.1	-0.1	0.0	0.1	Pass	99 %	5	5
Sample 7	29.07.2012 22:05:58	0.1	-0.1	-0.1	0.1	0.0	0.1	Pass	100 %	5	5
Sample 8	29.07.2012 22:06:05	0.9	5.5	-1.4	0.8	5.7	5.8	Fail	119 %	4	2-3

Remark

Auditing Date | Auditor

Blue 29.07 22:03 1 / 1

The RM200QC automatically creates conformance reports in PDF and Excel formats, for the stored samples against each standard. These can be output to a computer or directly to a compatible printer (Printers supporting USB Memory stick with PDF file type).

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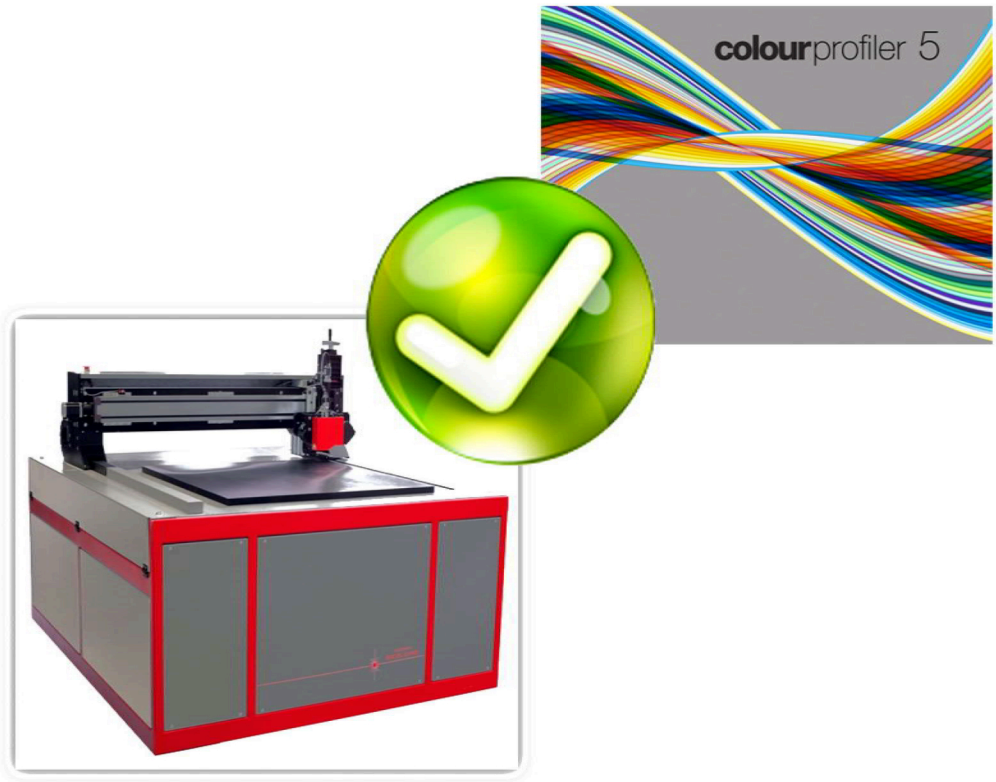
SOLUTIONS FOR YOUR CREATIVITY

REFERENCE LIST



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