

# Cost Saving with Color Management

Date: 20 Oct 2009 Edition:1

## Keywords:

Color Management  
GCR  
ICC Profile  
Ink Saving  
Linearization  
Profile-Xpert Print Pro  
Spectrophotometer

## Index

Introduction .....	2
Ink Saving .....	2
Time Saving .....	5
Save Media .....	6



## Abstract:

This white paper explains how Color Management helps reducing costs in Digital Large Format Printing.



**BARBIERI electronic**  
*When Color Quality counts*  
Ignaz Seidner, 35  
39042 Bressanone/Brixen  
ITALY  
Tel. +39 0472 834 024  
Fax: +39 0472 833 845  
info@BARBIERIElectronic.com  
www.BARBIERIElectronic.com

**BARBIERI electronic**  
*When Color Quality counts*  
Ignaz Seidner, 35  
39042 Bressanone/Brixen  
ITALY  
Tel. +39 0472 834 024

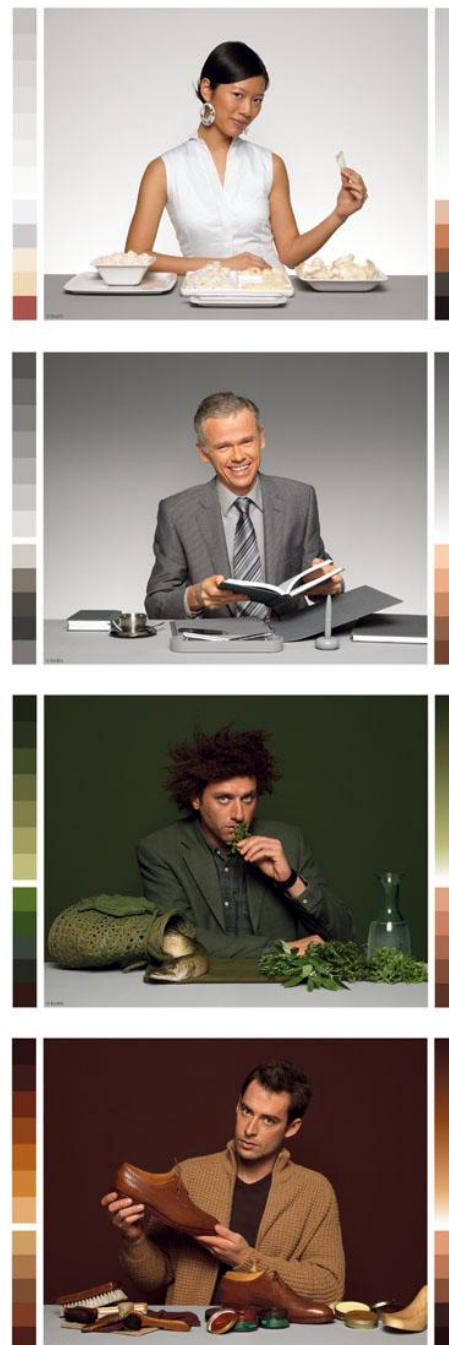
# Cost Saving with Color Management

Date: 20 Oct 2009 Edition:1

Standard ICC Profile



ICC Profile with ink-saving



Pictures: roman16 bvdv Reference  
Images [www.roman16.com](http://www.roman16.com)

There is visually no difference between these two images even if the image on the right side will be printed with 25% less ink



**BARBIERI electronic**  
*When Color Quality counts*  
Ignaz Seidner, 35  
39042 Bressanone/Brixen  
ITALY  
Tel. +39 0472 834 024  
Fax: +39 0472 833 845  
info@BARBIERIElectronic.com  
www.BARBIERIElectronic.com

# Cost Saving with Color Management

Date: 20 Oct 2009 Edition:1

Standard ICC Profile

ICC Profile with ink-saving

67%

57%

82%

74%

83%

71%

75%

80%



**BARBIERI electronic**  
*When Color Quality counts*  
Ignaz Seidner, 35  
39042 Bressanone/Brixen  
ITALY  
Tel. +39 0472 834 024  
Fax: +39 0472 833 845  
info@BARBIERLelectronic.com  
www.BARBIERLelectronic.com

# Cost Saving with Color Management

Date: 20 Oct 2009 Edition:1

On the illustration above we have separated the image into the 4 channels (CMYK) and measured the ink coverage on one point. We gain an ink saving of total 30% in cyan, magenta and yellow with an increase of 5% black only. This leads to an average ink saving of 25%.

## ***Ink-Saving: Figures***

Figures taken from a printing lab using Barbieri Color Management equipment (December 2008)

- 25% saving of ink (see calculation above).
- Average UV printer consumption: approx. 500 liter / year.
- Cost UV ink: approx. €100 / liter which results in yearly expenditures of approx. €50.000 on ink each printer

**By 25% ink saving the yearly gross saving is about €12.500 per printer.**

## **Time Saving**

...due to immediately right results and automatic and fast measurements.



If Color Management is applied in the right manner and the whole workflow is done including linearization of the printer and creation of the ICC profile for the media, the desired color true output will be reached immediately.

Thanks to this no multiple sample prints have to be printed in order to come step by step closer to the desired color appearance which would lead to wasted operator and printer time.

Furthermore the calibration process has to be done only once for each media (as long as the color output remains stable) and not for each print job.

By means of an automatic measuring device (spectrophotometer) the operator during measurement can pay his attention to other tasks and is not occupied by measuring manually.



**BARBIERI electronic**  
*When Color Quality counts*  
Ignaz Seidner, 35  
39042 Bressanone/Brixen  
ITALY  
Tel. +39 0472 834 024  
Fax: +39 0472 833 845  
info@BARBIERIElectronic.com  
www.BARBIERIElectronic.com

