

## ColorSet™ CMM Tool Kit

### Embed high-quality color transformation capabilities using patented technology

Monotype Imaging's ColorSet CMM Tool Kit allows device manufacturers to embed color transformation calculations in color output devices while providing these important benefits: fast, accurate color transformation between input and output processes that result in high-quality output. The CMM Tool Kit also offers peace of mind – from knowing that Monotype Imaging's technologies are patent-protected. Monotype Imaging has optimized technologies developed initially for the graphic arts market to meet the growing color quality demands of the office and personal printer markets.

The CMM – or Color Management Module – acts as a color engine to ensure consistent color mapping between input and output devices when embedded within printer ROM or device drivers. The module enables easy and accurate color transformations from one color space to another, such as sRGB to CMYK for print applications. The CMM quickly converts colors between devices to ensure they are mapped optimally into the range of colors that can be produced by the destination device, using the full gamut of the device.

Monotype Imaging's CMM is fast, small in code size and supports ICC-specified rendering intents and all industry-standard color spaces and file formats. The CMM offers flexibility that extends into areas that are increasingly important to color device manufacturers, such as n-color support. Written in ANSI C, the CMM has been ported and tested to run in several operating systems including Microsoft® Windows®, Macintosh®, Unix® and Linux® platforms.

The CMM Tool Kit, along with Monotype Imaging's ColorSet Profile Tool Kit and ColorSet Screening Tool Kit, enables manufacturers to build into their devices the ability to reproduce the highest level of color image quality. The technologies allow development to move at a pace that can meet or finish ahead of product schedules. Improved time-to-market means device manufacturers can begin to realize revenue faster than expected.

#### Monotype Imaging's CMM supports various industry standards:

- ICC rendering intents
- Adobe® PostScript® color rendering dictionaries
- CMY, CMYK, RGB, sRGB, LUV, LAB, CIE, LCH and ATD color spaces
- DIC, Euro, SWOP press simulations
- TIFF, JPEG, BMP, Photoshop® and PICT file formats

<b>Feature</b>	<b>Benefit</b>
<i>Patent protection</i>	Patent indemnification is assured. Alternative CMMs may violate patents.
<i>High quality</i>	The CMM is a major component of achieving high-quality results. Color accuracy is maintained in all types of documents that mix graphics with text.
<i>Fast</i>	Monotype Imaging's CMM, proven faster than Windows ICM, is able to strategically select interpolation points resulting in optimal performance in color transformations.
<i>Small footprint for ROM and RAM</i>	Code size is optimized at 70 KB. Efficient buffer structures minimize RAM requirements.
<i>Ported and tested on every standard platform</i>	Developers have the flexibility to use the CMM on Windows, Macintosh or Unix/Linux platforms.
<i>8-bit and/or 16-bit interpolation</i>	Aids both in achieving fast conversions and preserving enhanced detail and wide tonal range across images.
<i>Black channel preservation</i>	Preservation of black ensures results that are pure black.
<i>Supports n-colors</i>	Not limited to CMYK.
<i>Integration with ColorSet Profile Tool Kit</i>	Works seamlessly with Monotype Imaging's Profile Tool Kit for creating, editing and optimizing profiles and color gamut.
<i>Compatibility with industry standards</i>	Industry-standard color spaces, file formats and tools are supported for compatibility and ease of integration.

#### **ColorSet CMM Tool Kit contents**

- ANSI C source code
- build files
- demonstration code

#### **ICC**

ICC is an acronym for the International Color Consortium® group, formed in 1993 to create standards for open, vendor-neutral, cross-platform color management system architecture and components.

#### **Additional solutions**

Monotype Imaging is a major innovator of color and screening technologies. Products are based on patented technologies from the Agfa-Gevaert Group that have been customized by Monotype Imaging for the office and personal printer markets. Monotype Imaging's fonts and font technologies are used in millions of devices that operate today. For more information on the company and its products, please visit [www.monotypeimaging.com](http://www.monotypeimaging.com).



Monotype Imaging Inc.  
500 Unicorn Park Drive  
Woburn, MA 01801

phone 781 970 6000  
fax 781 970 6001

[www.monotypeimaging.com](http://www.monotypeimaging.com)  
[www.colorset.com](http://www.colorset.com)

Monotype Imaging Ltd.  
Unit 2, Perrywood Business Park  
Salfords, Redhill, Surrey RH1 5DZ England

phone +44 (0)1737 765959  
fax +44 (0)1737 769243

Monotype Imaging K.K.  
Level 32, Shinjuku Nomura Building  
1-26-2 Nishi-Shinjuku

Shinjuku-ku, Tokyo, Japan 163-0532  
phone 81 3 5322 1377  
fax 81 3 5322 2929