



Unique Color Technologies

Developed specifically to enhance your color wide format output



Simplicity

Simplify the process in just a few steps

ONYX Color delivers the tools specifically designed to make it fast and easy to create new profiles. Print shops will find it easy to maintain consistent print quality over time and match prints from device to device. Print providers will gain efficiencies with easy to automate color management settings included with all ONYX RIP and Print Workflow software applications, increasing confidence and reducing manual intervention.

For our advanced users, there are professional tools included that give the ability to fully control and fine tune color output at each step of the color management process.

Superior Output

Improves accuracy, consistency, predictability

ONYX Color delivers brighter and more vibrant images, especially in low gamut situations. With 32-bit color management, a set of professional color tools, and named spot color matching tables; print shops will get more accurate and consistent output. ONYX Color will assist print providers in meeting strict industry color standards and specifications, satisfying even the most demanding clients. Smart 16-bit™ processing is optimized for performance while giving users exceptionally smooth gradients.



Color Management

Proprietary, innovative technologies

ONYX maintains the technical understanding, flexibility, and control to implement and manage color without having to rely on outside sources for updates or changes. When there are color challenges, we access our unique technology to understand and address the situation. This enables us to develop innovative approaches that lead the wide format industry. This flexibility and control makes it possible for ONYX to deliver an integrated system which allows customers to delight their clients with excellent print quality.

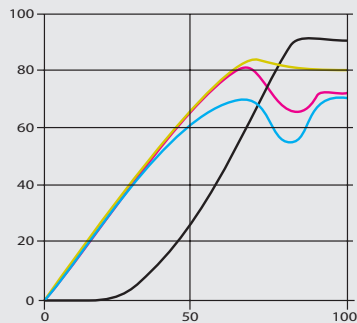
Ink Savings

Reduce costs and customize profiles

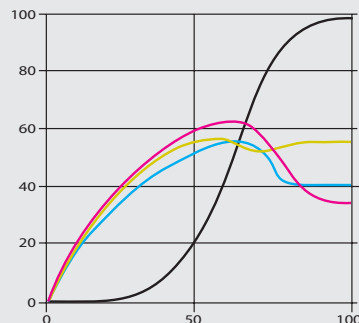
ONYX Color includes PowerChroma™ technology with GCR Plus™ which allow users to create profiles that can save up to 30% in ink usage while maintaining smooth output quality in highlight and midtone regions of an image. PowerChroma also gives control to achieve balanced grays, rich dark colors and a patented dual Gray Component Replacement (GCR) functionality for superior control and results.



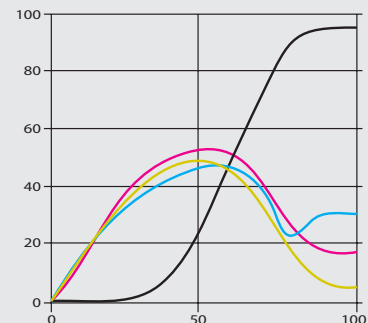
Default GCR



GCR Plus° CMY = 50



GCR Plus° CMY = 0



These illustrations demonstrate the approximate CMYK combination for black generation across the tonal range. Each illustration represents one of the ONYX ICC Build Option Presets applied to the same ICC.

Vivid Color

Produce brighter, more vibrant images

ONYX Color was created to provide more vibrant, brighter images, especially in lower gamut situations. Now when creating an ICC profile, the user has an option to select the specific type of gamut mapping. These options are made available so users can decide the look they desire for their final printed output.



Color Wide Format

For wide format, by wide format

Led by industry's most recognized color scientists, ONYX Graphics' own color management engine is suited to the specific challenges of the digital wide format industry. Indeed, ONYX Color was designed for wide format, by wide format.

Max W. Derhak

Max W. Derhak represents ONYX Graphics Inc. in the International Color Consortium steering committee where he has served as the Vice Chair of the ICC. Max also chairs the Architecture Working Group (AWG) in the ICC which is working on next generation color management specifications and technologies.

Rohit A. Patil

Rohit A. Patil is the co-creator of ONYX's proprietary ICC profile build engine. He is also the co-inventor of a patented black generation algorithm used in the ICC engine and also has several other patents pending.

ONYX
color 

FEATURES

- Smart 16-bit processing
- 32-bit floating point precision for ICC color management
- PowerChroma Ink Savings technology with GCR Plus
- Postercolor rendering intent
- Automated ink restrictions
- Virtual pixel technology
- Adaptive ink limiting
- Recalibration - being able to get back to a known state allows customers to establish and maintain predictable results using process control
- **Advanced Custom ICC Profiling Features:**
 - Choice of unique gamut mapping strategies
 - Separate control of chromatic and achromatic black generation
 - Ink savings with UCR/GCR Plus
 - Inclusion of gamut expanding spot colors
 - Table generation for improved interpolation near gamut boundaries
 - Automatically compensates for optical brighteners
 - Specifically measures and compensates for unbalanced inks or hue shifts in primary ink combinations
 - Optimizations of profiles for different lighting conditions



To learn more about these ONYX Graphics technologies, our portfolio of RIP products and our suite of ONYX Thrive print workflow solutions, visit our website at onyxgfx.com, or contact your Authorized ONYX Resellers.

