Onyx®
ProductionHouse™

Superior technology, definitive reliability

version 6

ONYX GRAPHICS

Dynamic Workflow Solutions for Digital Print Environments

www.onyxgfx.com

S P E C I F I C A T I O N S

Onyx® ProductionHouse™		
FEATURES	**Included**	**Optional**
Print directly from any Mac or PC creative application	♦	
Hot Folders	♦	
Print queue for print jobs	♦	
Image interpolation	♦	
Print nesting preview	♦	
Active printers	4	Up to 6
Simultaneous RIPs	2	Up to 4
Ink usage tracking and reporting	♦	
Web portal job management	♦	
Automatic / custom tiling with overlap	♦	
Thumbnail job preview	♦	
PosterColor® rendering	♦	
Prepress proofing tools	♦	
Spot color matching — custom spot colors	♦	
Print multi-page PostScript and PDF files	♦	
PostScript font manager	♦	
Color proof PostScript separation files	♦	
Precision halftone screening	♦	
Printer pooling	♦	
Preflight – full preview, interactive size and crop, full pan and zoom	♦	
Interactive tiling with overlap	♦	
Tile Weld-overlap	♦	
Direct TWAIN32 scanner / camera support	♦	
AutoUpdate software update system	♦	
COLOR CORRECTION TOOLS		
Basic saturation and contrast sliders	♦	
Set white and black	♦	
Visual color replacement tools	♦	
Multiple on-screen color corrections	♦	
CMYK curves and splines	♦	
Customize image GCR	♦	
COLOR MANAGEMENT		
Default media calibration tables	♦	
Media Manager (add and calibrate your own medias)	♦	
PANTONE® Color Matching	♦	
Profile Generator (build your own custom ICC profiles)		♦
Media Analyzer tool	♦	
Printer gray balancing tool	♦	
Calibration devices supported by Media Manager	35+	
FRONT-ENDS		
Improved Step & Repeater	♦	
CADPrint®		♦
CUTTERS		
Contour cutting workflow	♦	
Contour cutting for i-cut®	♦	

www.onyxgfx.com

Onyx®
ProductionHouse ™

Features and Benefits

Ease of Use

- Simply click File — Open — Print to achieve great output
- Print directly from Mac- or PC-based creative applications
- Get a printer operator-friendly job preflight and printer queue
- Get free, automated software and driver updates with Onyx® AutoUpdate

Great Color

- Easily calibrate any media substrate
- Take advantage of the full gamut of your printers with ink control tools
- Recalibrate your printers quickly without having to rebuild ICC color profiles
- Get consistent color over multiple print devices
- Achieve excellent black generation and spot-color matching

Universal Workflow

- Work across platforms and drive multiple printers from various manufacturers
- Interactively scale, crop, and rotate images
- Apply custom tiling to oversized prints
- Make color corrections and replace color–or a range of colors–from Preflight
- Import and apply custom ICC profiles

Increased Productivity

- Easily track ink usage and get cost estimates *before* printing
- Visually preview files to avoid costly reprinting
- Get a fast, reliable PostScript® RIP
- RIP multiple PostScript/PDF and raster files at the same time

PANTONE® Color Matching

Onyx ProductionHouse™ includes a fully licensed PANTONE® Color Library, which makes spot color matching easy because more accurate PANTONE spot color matching happens automatically during processing. The Onyx RIP recognizes PANTONE-named colors in PostScript or PDF files and matches the colors as closely as possible. ProductionHouse also includes a media profile gamut report that shows you just how closely your media can match each PANTONE color.
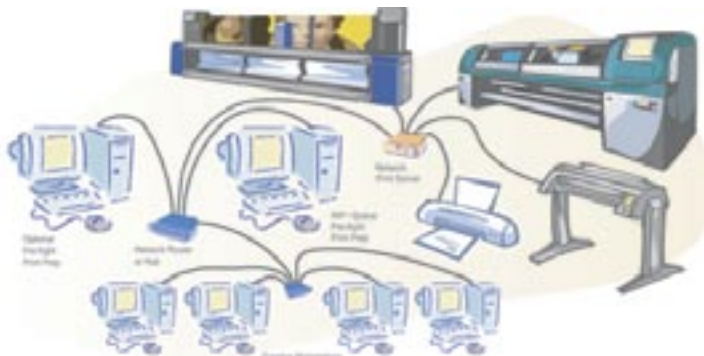
PANTONE
Digital Color

PANTONE
Hexachrome

SWOP
CERTIFIED
SYSTEM

ProductionHouse is a SWOP® certified system.

Easy-to-Use Universal Workflow Solution

How many different software RIPs does your shop use? More than one is too many! If you have different RIPs for different print devices, who is your expert on each RIP? How do you get consistent results across multiple devices?

With Onyx ProductionHouse, you have one easy workflow that gets you great color on all of your devices. All of your jobs follow the same easy workflow and all of your printer operators use this same easy workflow, regardless of output device.

Preflight Puts It All at Your Fingertips

Preflight is easy to navigate and easy to use because key actions and controls are located in the main tabs. Preflight also shows you final output colors on your screen, saving you the hassle of having to print in order to see the final colors of each job.

Increased High-Production Throughput

When you simply cannot afford to have your printers at a standstill — for even a short time — you can't afford to be without ProductionHouse. You'll find Onyx Workflow products in more high-production environments than any other RIP product.

Ink Usage Tracking and Reporting

ProductionHouse Version 6.5 allows you to obtain ink usage and cost estimates on any job *before* printing. You can also view ink costs in the RIP-Queue's job log. This innovative feature shows each ink channel usage and estimated cost and works with all dot patterns.

Web Portal for Web-Based Print Job Management

Manage your print jobs from any computer on your network with a web browser. You can also submit jobs from a PC, Mac, or Unix-based compatible web browser on your network.

Precision Screening Patterns

In addition to standard dot patterns like Stochastic and Error Diffusion, ProductionHouse offers a wide range of screen dot patterns that simulate traditional screen printing. ProductionHouse comes with a set of default screens for silk screening, newsprint and SWOP. You can also create your own screening dot patterns with custom dot size, screen angle, and frequency.

Contour Cutting Workflow

Contour Cutting in Three Easy Steps

Never before has contour cutting been so easy and productive. Simply use Adobe Illustrator or Corel Draw to define the cut paths in your image and RIP-Queue within Onyx ProductionHouse to scale, tile, nest, and manage color as needed. Send the image to any printer, which then prints the job complete with cutter marks and a barcode for scanning. Place the completed print(s) in the cutter. The cut device knows just what to do and where to cut. It's that easy!

You retain easy control of every step. You select the printer, media, number of copies, rotation, magnification, etc. ProductionHouse even supports hot folders and Quicksets that allow you to standardize and simplify the process even further.

Cut Devices Supported*:

- i-cut®
- Graphtec®
- Mutoh® Ultima
- Mimaki®
- Gerber®
- Roland®
- Summa®
- Print-and-Cut Devices

Or, use the CUT-Server's generic driver to easily add support for your own cutter.

Onyx® i-cut® Fully Automated Finishing Solution

To help you with the further success of your cutting workflow, Onyx Graphics has also partnered with Mikkelsen Graphic Engineering, Inc. (MGE), makers of automated digital cutting systems, to bring you the Onyx ProductionHouse i-cut® workflow, a fully automated finishing solution.
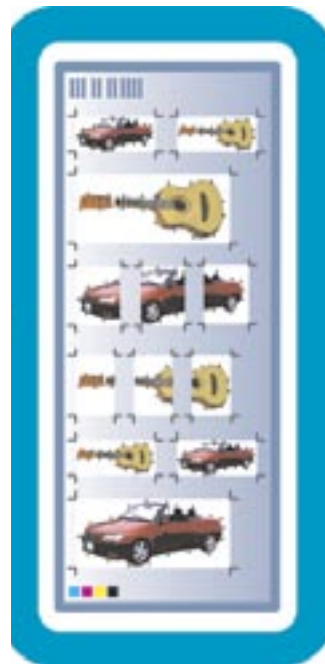
Discover the Convenience of Registration

The Onyx RIP-Queue maximizes your flexibility when printing and cutting contours, by completely handling the printing of "registration marks" recognized by many "electric eye" cutters. The RIP-Queue prints these specific marks needed by your contour cutter on any of the hundreds of different printers that it supports. Registration is then automatic when you use the Onyx CUT-Server to cut out the job after printing.

Number and Barcode Capability

ProductionHouse creates and assigns barcodes for every job you print. Simply load the completed print in the cutter, then scan the barcode, or enter the job number. The cutter automatically grabs the necessary cut script and knows exactly how and where to cut the images in the print.

Scale, Nest, and Tile Cut Jobs

Interactively scale all of your illustrations directly in Production-House before they even reach the cutter. Cut marks stay the same no matter what size you make the illustration. You can reduce ink consumption and media spoilage by nesting your images. ProductionHouse applies cutting paths to every job you send and allows you to preview the nested jobs directly in the application. You can also apply custom tiling to your oversized prints; after specifying the number of tiles, ProductionHouse automatically applies a continuous contour cutting path across each tile.

Contour Cutting Features and Benefits:

- Take out the manual labor of your existing workflow
- Spend less time training existing staff and easily train new staff
- Achieve one easy workflow, from your RIP to your printer(s) to your cutters
- Print from any printer — Onyx Graphics offers the most extensive list of printer drivers and media profiles available on the market today
- Interactively scale, crop, and rotate images from ProductionHouse — your cutter marks automatically adjust
- Reduce ink consumption and media spoilage with nesting features
- Use barcode functionality to automatically scan preset cut paths
- Support up to 10 cut layers (for bevelling, embossing, die-cuts, stickers, etc.)

Proofing Capabilities

In-House Pre-Print Contract Proofing

It's about time contract proofing reached the large-format industry, and now you can have the competitive advantage. Onyx ProductionHouse Version 6.5 includes a suite of proofing tools. These new tools give you the ability to make quick and accurate color proofs of print jobs before they go to your production printers. The color proofs not only save you valuable production time, but also are a valuable service to your print customers.

Make Proofs without Stopping Production

Proof your large format printer on a desktop printer. Or proof your grand format printer on your large format printer. The possibilities are endless when the color gamut of your proof device is larger than the final output. You decide which configuration is best for your environment.

PROOFING PRINTER

FINAL OUTPUT PRINTER

or

PROOFING PRINTER

FINAL OUTPUT PRINTER

In-House Contract Proofing Features and Benefits:

- Increase revenue by providing contract proofs
- Keep production at its peak with no interruptions
- Save time, money, and resources with an automatic workflow
- Verify the accuracy of your proofs with autonomous verification strip before you tie up your production printer
- View and compare two media color gamuts in 3-D animation to evaluate proof media
- Gain access to comprehensive color matching analyses and gamut analysis reports of any ICC profile
- Simulate any PostScript separation's spot channel on any printer
- Stop running jobs with the wrong color and wasting expensive media and ink

Simple Setup

In order to proof an image, ProductionHouse requires that you have a minimum of two active printers. These will act as your final output printer and your proofing printer. Your final output printer is the printer on which you wish to print the final image; the proofing printer is the printer on which you will "test" your image. This allows you to review a smaller representation of your image without wasting the ink and media of the final output printer.

Remote Soft Proofing with Onyx RIPeXtend™

The Onyx RIPeXtend™ feature extends the capabilities and reach of your print services further than you ever dreamed possible. Imagine being able to automatically send a soft proof of a job to your customer — anywhere in the world. Or how about generating images for digital signage and electronic display systems with the click of a button? Production of cross-media jobs has never been simpler than with RIPeXtend, which comes standard with each ProductionHouse package.

Proof Any Time, Anywhere

Onyx RIPeXtend even allows you to automatically FTP a soft proof of each customer's job. Your customers can review proofs without delaying production, and they can do so from anywhere in the world. You could even use RIPeXtend to submit and review your own jobs. Simply use Onyx's web portal to submit the job. Work from home, work in a different part of the building — anywhere you wish! With the Onyx Web Portal and RIPeXtend workflow, remote soft proofing has never been easier.

Remote Soft Proofing Features and Benefits:

- Automate your proofing and transmittal processes
- Reduce costs of consumables and expenses of delivering proofs
- Cut days from a project's turnaround time
- Create a customer list with multiple email and FTP addresses for easy retrieval
- Apply customers' ICC monitor profiles to soft proof before sending

Grand Format Solutions

Save Time and Money with ProductionHouse™

As a solvent inkjet printer owner, you know that the digital printing industry moves at a lightening pace. If your printers are down, you're wasting time, which means you're wasting money; as a result, you feel great pressure to keep your printers running at top capacity and speed at all times. To complicate matters, there's also the problem of color: as solvent printer manufacturers don't sell media, achieving quality and consistent color across various devices becomes difficult.

Onyx ProductionHouse takes the headache out of keeping your grand format printers calibrated and printing at optimal color output performance, saving you both time and money.

Quick Return on Investment

With ProductionHouse, you'll get one easy solution to all of your production problems with a quick return on investment. The ProductionHouse feature set was specifically designed to solve all of your biggest pains — avoiding production downtime, achieving better color, and holding onto a loyal customer base. No matter what printers you have, or how many, ProductionHouse will increase your productivity, give you better color, and help you increase your business.

Superior Solvent Media Support

ProductionHouse includes a superior set of printer drivers from prominent inkjet printer manufacturers. You can also add grand format drivers from all leading manufacturers and unify all of your production under one reliable production workflow. Onyx Graphics works closely with solvent media manufacturers like Avery Dennison and other major media manufacturers to bring you the best possible output with ProductionHouse.

Grand Format Features and Benefits:

- Get one easy job workflow for all of your grand format printers with the universal ProductionHouse workflow
- Take advantage of the full gamut of your grand format printers with ink control tools
- Recalibrate your grand format printers quickly without having to rebuild ICC profiles
- Get consistent color over multiple grand format print devices—even across different printer brands
- Achieve brilliant and saturated colors while maintaining gray balance with exclusive PosterColor® technology
- Drive up to four grand format printers from one RIP station with multiple printer support
- Automatically proof your grand format printer on a desktop or large format printer

---

Onyx® Profile Generator™

You Can Achieve Better Color!

The optional Onyx Profile Generator™ supplies everything you need to create accurate, reliable profiles as defined by the International Color Consortium®. With a highly intuitive graphic interface and many advanced features, you can quickly and easily build great ICC profiles for all types of printers and media.

Integrated Color Management

Profile Generator works seamlessly with Onyx ProductionHouse to create ICC profiles. While all Onyx software packages give you the ability to import and apply ICC profiles, Profile Generator is an optional upgrade that integrates into ProductionHouse and gives you power to create and edit industry-standard ICC profiles. This gives you true colorimetric control over your printer profiles to provide state-of-the-art color matching on any output device supported by ProductionHouse.

Stop Color Tweaking Every Print Job

When profiles don't match your ink and media, your colors don't come out right. If you're having to color-tweak every job in order to get the right colors, then you need Profile Generator! With Profile Generator, you can build great ICC profiles for whatever ink and media you are using, so the color comes out right the first time and every time.

Great Black and Gray Control

Profile Generator gives you maximum control over the separation process, allowing you to define settings for the start black point, black width, maximum amount of black ink, and total ink coverage, as well as UCR and GCR. Profile Generator also offers an automatically balanced black point generation and improved details in dark tones for printer profiles using Perceptual Rendering Intent while also ensuring neutral grays remain neutral, regardless of the whiteness of the paper.

Profile Generator Features and Benefits:

- Achieve better color than with "default" media profiles
- Profile new media types for new applications
- Generate spectral ICC profiles
- Render more vivid colors with improved saturation rendering intent
- Control the black width in separation settings
- Choose automatically balanced or user-defined black point generation
- Choose between different gamut mapping methods

Onyx Graphics is a proud member of the ICC.

Onyx®
ProductionHouse™

Suggested Minimum Requirements

– Operating System:
- Windows XP Pro w/ latest service pack
- Windows 2000 Pro Server w/ latest service pack
- Windows 2003 Server w/ latest service pack

– CPU:
- Intel Pentium IV or higher
- Athlon, 2.5 Ghz or higher
- Dual CPU for multiple RIPs

– Storage:
- 40 Gb Hard Drive
- 1 Gb RAM per CPU

– Video Display: 1280 X 768 16-bit color

– One USB Port required for Security Key

– DVD-ROM drive required

Supported Printer Models

Small Format —
Canon, Encad, Epson, HP inkjet & color laser, Okidata color laser

Large Format —
Agfa, Canon, ColorSpan, DGI, Encad, Epson, Flora, Fuji, Graphtec, Gongzheng, HP, Ilford, Infiniti, Konica, Mimaki, Mutoh, Océ, Roland, Seiko, Tiara, Xerox

Grand Format —
Digital Inca, Durst, Flora, Gongzheng, Infiniti, Jeti, Legget & Platt, Lüscher, Mutoh, NUR, Océ, PerfectaPrint, Scitex Vision, Textdot, Vutek, Whitecloud, Yaselan, ZBE, Zünd

Not all printers are included. See dealer for details. Visit the Onyx Graphics website for details on printer models and new driver availability at www.onyxgfx.com.

Supported File Types

Raster File Types Supported —
TIFF, TIFF/IT, 8 Bit & 16 Bit TIFF, 4 GB TIFF, JPEG 2000, Native PhotoShop (PSD), Kodak PhotoCD, ER Mapper, MrSid, JPEG, Targa, Scitex CT, DIB, GIF, PCX, BMP

TIFF Formats Supported —
RGB, CMYK, Lab, CMYKOG, CMYKOB, CMYKGB, CMYKOGB, CMYKRGB, CMYK+Spot channels

PostScript & PDF File Support —
PS & EPS Level 2 & 3, DCS 4 and 6-color Separations, PDF, PDF-X

Font Types Supported in PostScript —
PostScript 1 & 4, True Type, Multiple Master Type 1, CID, Kanji, Morisawa

Languages Included —
English, Spanish, French, German, Italian, Czech, Chinese (Simplified and Traditional), Japanese, Korean, Dutch, Polish, Portuguese

Onyx Graphics recommends genuine HP Media and Ink Supplies.

About Onyx Graphics

Onyx Graphics develops and markets commercial printing software and solutions for the digital color printing marketplace. Its award-winning and market-leading products include Onyx ProductionHouse™, Onyx PosterShop®, and Onyx RIPCenter™ software packages. Onyx Graphics is the leading developer of large format digital color printing software with the largest installed base worldwide. For more information, visit Onyx Graphics at www.onyxgfx.com.

YOUR AUTHORIZED ONYX DEALER

ONYX® GRAPHICS

6915 South High Tech Dr. | Salt Lake City, UT 84047
Toll-free 800.828.0723 | 801.568.9900 | Fax 801.568.9990

www.onyxgfx.com