HP IndiChrome Ink Mixing System
Spot on brand colors from HP Indigo
Now with HP Indigo technology, you can achieve PANTONE Colors even more accurately, and provide demanding corporate, brand conscious customers with higher quality colors of their choice, on the media of their choice, repeatedly and consistently across the world.

Mix and match more than 3000 PANTONE Colors, and demonstrate your digital difference

HP Indigo’s mixed spot inks can match up to 97% of the PANTONE® color range, using an 11-color process. HP Indigo is the only existing digital press manufacturer that is able to provide you with the capability to self mix or order PANTONE-licensed spot colors or custom colors as required, in exactly the quantities required, precisely when required. HP Indigo’s support for both PANTONE® Goë™ and the PANTONE MATCHING SYSTEM®, produces more than 3,000 PANTONE Colors, delivering the highest level of PANTONE Colors availability in the digital printing industry. This unique capability differentiates your offerings and your results from your competition and positions you as a specialist print provider in your market.

Two handy ways to achieve PANTONE Colors

HP special color solutions are delivered to you in two forms:
1. On-site HP IndiChrome Ink Mixing System
2. HP Indigo Ink Mixing Services

Your choice will depend on typical scenarios and usage patterns you experience at your printing business:

1. Mix it up in-house and on-demand with the HP IndiChrome Ink Mixing System (IMS)

A major driver for using on-site mixed spot ink would be a rush requirement for a color outside the on-press CMYK, CMYKOV or CMYKOVG color gamut.

On-site ink mixing is effective if you:
• Own an HP IndiChrome Ink Mixing System
• Have mixing expertise
• Need to fulfill a rush order

HP IndiChrome Ink Mixing System 6.0 with superior software that simplifies your job

Consisting of both hardware and software components, the unique stand-alone on-site HP IndiChrome Ink Mixing System 6.0 allows users to mix a wide range of special colors from a set of 11 base inks (CMYK, orange, violet, reflex blue, green, rhodamine red, bright yellow and transparent), on an on-demand basis with zero lead time.

Fully automated software guides you through the measurement, analysis and mixing steps. Innovative color measurement techniques work together with HP Indigo’s color technology to determine the best color match and mix a new ink — making color matching a precise, predictable and repeatable procedure. The system is compatible with all HP Indigo digital press models.

Please refer to the ‘My HP Indigo’ portal for information on how to obtain the HP IndiChrome Ink Mixing System version 6.0.

The broadest color gamut

HP Indigo offers the broadest digital color gamut to meet the most demanding color needs. Compare the breadth of CMYK, HP IndiChrome on-press and HP IndiChrome off-press, plus their extensive coverage of PANTONE Colors.

“One of the key drivers for selecting HP Indigo as our technology provider for our digital presses was the opportunity to provide spot colors to our corporate clients. The ability for us to produce high quality full color digital print across a multitude of substrates plus corporate spot colors enables us to continue to improve our client brand identity in the market place.”

Matthew Diamond, Managing Director, Lorien Unique, UK
Effort-free, friendly features
The HP IndiChrome Ink Mixing System 6.0 features:

• Support for PANTONE® Goë™: In addition to the PANTONE MATCHING SYSTEM®

• Ready-mixed colors: 135 of the most frequently used color mixtures already incorporated into the system, reducing the number of iterations needed to reach the precise color and providing a faster way to mix commonly requested colors.

• Simplified mixing process: A user friendly interface including: a wizard-based process, the ability to change \( \Delta E \), a larger variety of already measured substrates and more.

• Simplified correction procedure: The ability to add small amounts of ink directly into the ink tank. This simple method improves the ease-of-use and saves time.

• Manual color mixing button: For customers who wish to create a formula using their own knowledge and not the IMS algorithm, or to correct a suggested formula.

• 3D viewing of color space: A click of a button presents a 3D view of the color space enabling you to locate the required color in the gamut space.

The HP IndiChrome Ink Mixing System provides great flexibility to customers wishing to match specific PANTONE spot colors and expands the ability to produce color that precisely meets the needs of print buyers. This unique advantage adds significant value to the digital print created and offers a wider range of applications and opportunities to HP Indigo customers.

2. HP Indigo Ink Mixing Services — at your service
If you do not own an HP IndiChrome Ink Mixing System, you can order spot colors from HP Indigo’s Ink Mixing Services. A major driver for using a mixed spot ink would be the need for a color outside the on-press CMYK, CMYKOV or CMYKOVG color gamut. When a few days of lead time are acceptable, HP Indigo’s Ink Mixing Services are effective if you:

• Don’t have an HP IndiChrome Ink Mixing System
• Do not have mixing expertise
• Need large quantities

Three special ink mixing services are currently available via the “Supplies” web order pages on My HP Indigo, or via HP distributors:

• PANTONE-licensed Spot Color Inks Service: PANTONE-licensed spot color inks can be ordered by specifying the color number.

• Custom Special Inks Service: Create inks to match a swatch or a supplied color sample — or to print on substrates not covered by the standard HP IndiChrome Ink Mixing Service.

Licensed PANTONE quality
HP Indigo’s PANTONE simulation capabilities and output devices have been tested and approved by Pantone, Inc. as meeting its quality standards. The HP IndiChrome Ink Mixing System and Ink Mixing Services are part of a broader portfolio of features of HP Indigo presses that include:

• CMYK on-press PANTONE simulation: 4-color (CMYK) PANTONE® emulation for the simulation of the PANTONE MATCHING SYSTEM® and PANTONE® Goë™

• HP Professional PANTONE technology: enhanced on-press 4-color (CMYK) PANTONE® emulation for the simulation of PANTONE MATCHING SYSTEM® and PANTONE® Goë™ colors at higher accuracy, utilizing custom-built ICC profiles for specific press and media combinations

• HP IndiChrome on-press: 6-color (CMYKOV) PANTONE® emulation for the simulation of the PANTONE MATCHING SYSTEM®

• HP IndiChrome Plus: 7-color (CMYKOVG) PANTONE® emulation for the simulation of the PANTONE MATCHING SYSTEM®

• HP IndiChrome off-press: an 11-color mixing system for solid spot ink creation for both PANTONE® Goë™ and the PANTONE MATCHING SYSTEM®
Benefits of spot color printing

With HP Indigo digital printing and inks, you get the best of all worlds: the sheer beauty of offset print quality and the amazing flexibility of a powerful digital press, alongside world-class support from a trusted provider.

• Special color inks allow you to print accurately matched corporate colors without using screened process inks. This means that you can produce additional applications for additional customers.
• Special bright colors that cannot be reproduced by an on-press 4, 6 or 7-color process allow you to offer more impactful documents.
• Special colors printed on solids applications, such as small point colored type on business cards, do not suffer from break-up. The result is a higher-quality, more competitive product.
• Special colors can be mixed on an on-demand basis, in exactly the quantities required for your customer’s job. This makes special color printing an on-demand service.
• The mixing system is easy to use. The measurement process is guided by software, and routines such as ink replacement on the press are automated. This results in minimal downtime when changing inks.
• With the new On-press Fast Ink Replacement (OFIR) system on the HP Indigo presses 5500, ws4500 and 7000, spot color changing is performed with zero downtime while printing — saving valuable production time.
• PANTONE® colors can be directly selected. This obviates the need to take a measurement from a swatchbook, and eliminates errors.

• Using the fifth, sixth and seventh tanks does not impact the printing of regular 4-color work. No wash-down is required between 5, 6 or 7-color and 4-color jobs.
• Spot color printing is more profitable as clients are already used to paying a set-up charge and a proportionally higher price per page.

“HP has been a Pantone licensee for many years and we have collaborated closely with them to provide the best possible representation of PANTONE Colors on the Indigo systems. We are pleased to make available our products for HP Indigo customers.”
Andy Hatkoff, Vice President of Electronic Color Systems, Pantone.

The HP IndiChrome Ink Mixing System 6.0
Technical specifications

<table>
<thead>
<tr>
<th>Components</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spectrophotometer</td>
<td>Accurate measurement device to analyze the color of a sample or printed swatch</td>
</tr>
<tr>
<td>Ink mixing software</td>
<td>Software which calculates the optimal ink mixture</td>
</tr>
<tr>
<td>Dispensing unit</td>
<td>Dispenses an accurately weighed quantity of base inks</td>
</tr>
<tr>
<td>Can crimper</td>
<td>For sealing the cans</td>
</tr>
<tr>
<td>Can shaker</td>
<td>To mix the contents of the can until a homogeneous mix is attained</td>
</tr>
<tr>
<td>Air compressor</td>
<td>Provides compressed air for the dispensing unit</td>
</tr>
<tr>
<td>Operation manual</td>
<td>Provides full, easy-to-follow instructions for the user</td>
</tr>
<tr>
<td>Workflow diagram</td>
<td>An easy-to-follow procedure chart suitable for wall mounting</td>
</tr>
<tr>
<td>Start-up kit</td>
<td>Two cans of each base color and 20 empty cans for special colors</td>
</tr>
</tbody>
</table>

PC requirements

• Pentium 133 MHz or faster
• Windows 95 or higher operating system
• 5 MB free disk space
• One free serial or USB port
• Display with at least 64k colors
• Network card

Note: The PC hardware is not supplied by HP