

HP Indigo 7600 Digital Press



A proven platform with leading quality—now with higher speed and innovative application capabilities



The HP Indigo 7600 Digital Press, the fastest 13 x 19 inch format digital sheetfed press in the market, combines proven quality, versatility, and breakthrough productivity with new intelligent automation that maximizes uptime. New special effect capabilities—including raised print and textured effects—expand opportunities to deliver high-value applications.

Breakthrough speed and productivity. The press prints four million color pages per month with higher profitability. Using the Enhanced Productivity Mode, throughput increases by 33% to 160 color ppm, increasing volume significantly. Hardware and software advancements and new supplies improve robustness, adding to high productivity.

New automation. Intelligent automation, powered by an enhanced Vision System, maintains and delivers quality prints, reducing operator intervention. The Automatic Alert Agent identifies print defects in real time. Automated calibrations keep registration and other key quality parameters on track.

New set of special print effects. With new, on-press, on-demand special effects, the HP Indigo 7600 Digital Press is charting new territory, offering outstanding differentiation to the print service provider with a wide range of high-value applications.

The leader in print quality and color. Enabled by HP Indigo's liquid ElectroInk technology and unique digital offset process, HP Indigo prints are of the highest quality, matching or even exceeding offset, allowing them to be used interchangeably. ElectroInk provides the widest digital color gamut, including special effect inks, using up to 7 ink stations on press.

- ElectroInk and the Indigo process deliver a very thin ink layer that gives uniform gloss.
- 4, 6 or 7 process colors for vivid printing and accurate on-press Pantone emulations.
- True spot colors, mixed off press, for perfect Pantone-certified solids.

Widest media range. Compatible with more than 2500 substrates, the press enables PSPs to offer unique jobs using dark, transparent, metallic, and recycled papers, and paperboard for folding cartons.

Field upgradeability. Most of the innovations in the press are upgradable options for HP Indigo 7000 and 7500 digital presses.

Designed for the environment. The first HP Indigo press with carbon-neutral manufacturing, it is designed for sustainability at every stage of its life.

To learn more, visit www.hp.com/go/graphic-arts or www.hp.com/go/myhpindigoweb



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Everything a digital press is expected to do and far more

High performance, high throughput. Designed to meet the most demanding peak production deadlines and financial targets, the HP Indigo 7600 Digital Press is the only digital sheetfed press in the market that can print four million color pages every month.

- **Enhanced Productivity Mode (EPM)**—increases throughput by 33% to 160 pages per minute for most image-rich color jobs, significantly reducing turnaround time and production costs.
- **Robust supplies**—A set of new-generation supplies, including the Imaging Oil System, Photo Imaging Plate (PIP), blanket, and Binary Ink Developer (BID), improves print quality, performance, and lifespan, extending time between replacements and reducing waste by 20% for more sustainable printing.
- **Powerful print server**—The scalable HP SmartStream Production Pro version 4.6 is the most powerful DFE in the industry, with a single point of control capable of driving multiple presses.

Intelligent automation. Innovative automated processes performed in the press reduce operator intervention, increasing press uptime and reducing waste.

- **Enhanced Vision System**—performs automatic hands-free press calibrations and diagnostics with high accuracy, reducing operator effort, saving time, and diminishing errors.
- **Automatic Alert Agent**—identifies inconsistencies between the digital file and the printed sheet. This automated early detection system helps identify quality problems during printing, preventing imperfect sheets from reaching the end customer.
- **New Print Care version**—Improved diagnostics and troubleshooting increase press uptime by assuring quick and accurate problem solving either by the operator or through remote support.



High-value applications. New special effects and a variety of special inks open opportunities for unique applications that can increase profits. These special applications are created on press, making them quick and simple to achieve compared with laborious conventional methods.

- **Textured effects**—Create embossed-style textures on substrates to give ordinary applications a boost of creativity and uniqueness.
- **Raised print**—Make raised effects using layers of transparent ink applied directly to the substrate.
- **Digital watermarks**—Offer customers a new application using one layer of transparent ink.
- **HP Indigo ElectroInk White**—gives a unique ability to print a wide variety of new applications on a diverse range of media including transparencies, dark, and metallic substrates.
- **HP Indigo ElectroInk Light Black**—Enhances the quality of black-and-white photo reproduction. Using light black in 2-color printing with black doubles throughput and lowers cost.
- **Photo inks**—Light cyan and light magenta bring out realistic skin and sky tones for professional photographic printing.



Use HP SmartStream products and partner solutions with the HP Indigo 7600 Digital Press to improve production efficiency and support digital growth.

To learn more visit www.hp.com/go/smartstream.



1. Feeder
2. High-speed laser writing head
3. Charge roller
4. Photo Imaging Plate (PIP)
5. Binary Ink Developers (BIDs)
6. Blanket
7. Impression cylinder
8. Perfector
9. Ink cabinet
10. Vision System
11. Proof tray
12. Stacker
13. Imaging Oil Recycling System

Technical specifications

Printing speed	120 four-color 8.5 x 11 in pages per minute (two-up) 160 8.5 x 11 in color pages per minute in EPM (two-up) 240 two-color or monochrome 8.5 x 11 in pages per minute (two-up)
Image resolution	812 and 1219 dpi at 8 bit, addressability: 2438 x 2438 dpi HDI (High Definition Imaging)
Line screens	144, 160, 175, 180, 180m lpi
Sheet size	13 x 19 in maximum
Image size	12.48 x 18.26 in maximum
Paper weight*	Coated: 55 lb text to 130 lb cover; Uncoated: 40 lb text to 130 lb cover; Thickness 3-16 pt; Up to 18 pt with optional thick substrate kit.
Feeder	Four drawers: Three drawers with 7 in each (1800 sheets of 80 lb text each) One special jobs drawer: 2.5 in (700 sheets of 80 lb text) A total of 6100 sheets of 80 lb text. All drawers support the full range of substrates.
Stacker	Main stacking tray with 23.6 in stack height, supports offset jogging (6100 sheets of 80 lb text) Proof tray with 2.36 in stack height (600 sheets of 80 lb text)
Print servers (DFEs)	HP SmartStream Production Pro Print Server, HP SmartStream Ultra Print Server
Press dimensions	Width: 214.3 in; Depth: 90.5 in; Height: 82.8 in
Press weight	7300 lb
HP Indigo ElectroInks	
Standard 4-color printing	Cyan, magenta, yellow, and black
HP IndiChrome 6-color on-press printing	Cyan, magenta, yellow, black, orange, and violet
HP IndiChrome Plus 7-color on-press printing	Cyan, magenta, yellow, black, orange, violet, and green
Special effect inks	Light black, light cyan, light magenta, white, transparent
HP IndiChrome off-press spot inks	HP IndiChrome Ink Mixing System (IMS) for spot color creation using CMYK as well as orange, violet, green, reflex blue, rhodamine red, bright yellow, and transparent
PANTONE® colors	Supports PANTONE PLUS®, PANTONE MATCHING SYSTEM®, and PANTONE Goe™ HP Professional PANTONE Emulation Technology using CMYK on-press; HP IndiChrome on press; HP IndiChrome Plus on-press HP IndiChrome off-press (IMS) for achieving up to 97% of the PANTONE® color range.
Options	
Expanded color capabilities	5, 6, or 7 on-press ink stations; HP IndiChrome Ink Mixing System
Auto Alert Agent	Enables on-press alert system
Special effects kit	Enables creation of on-demand, on-press high-value applications
White ink kit	Enables use of white ink
Thick substrate kit	Supports paperboards up to 18 pt.
Additional feeder	One additional feeder with three drawers, each with 7 in of media
Additional stacker	One additional stacker with 23.6 in of media

*Media characteristics vary. If the media you are about to use is not listed in the Media Locator, HP cannot guarantee performance and we recommend that you test it prior to use.



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