



HP Designjet L65500 Printer

Overview

Designed with the environment in mind, the HP Designjet L65500 Printer featuring HP Latex Inks and HP Wide Scan Printing Technology offers print service providers (PSPs) a versatile print system that can produce a wide range of applications – from point-of-purchase displays, transit signage, wall murals and exhibition graphics to vehicle graphics and fleet marking, and a variety of exterior and interior event signage. Together, these technologies provide durable, odorless⁽¹⁾ prints; sharp, vivid image quality; application versatility and high productivity, enabling PSPs to increase their print capacity and grow their business while reducing the impact of their printing on the environment.

Achieve outdoor and indoor application versatility

The HP Designjet L65500 Printer with HP Latex Inks produces durable outdoor and indoor applications up to 104 inches (2.64 m) that withstand the elements while also providing exceptional image quality at high resolution – up to 1,200 dpi. Outdoor prints produced with the HP Designjet L65500 and HP Latex Inks on Original HP media achieve display permanence of up to three years un laminated and up to five years laminated and are scratch, smudge and water resistant.⁽²⁾ HP Latex Inks are expected to provide good image quality, display permanence and durability on most low-cost, uncoated, solvent-compatible media.

HP large-format media, HP Latex Inks and the HP Designjet L65500 Printer are designed and tested together to provide optimal results with every print. HP designed 14 new large-format media – including five recyclable substrates⁽³⁾ – for optimal results with HP Latex Printing Technologies. A proprietary new HP media surface-treatment technology – designed together with the HP Designjet L65500 Printer – produces a wide color gamut and makes it possible to achieve both durability and sharp, vivid image quality on materials that don't typically print well with solvent inks.

Innovative supplies reduce the impact of printing

Innovative, new water-based HP Latex Inks provide many of the benefits of solvent-ink technology without imposing the typical environmental, health and safety considerations. Odorless prints⁽¹⁾ produced with HP Latex Inks emit extremely low levels of volatile organic compounds. There is no special ventilation required to meet occupational exposure limits and there are no requirements for air discharge permitting⁽⁴⁾, facilitating an improved printing environment. Non-hazardous HP Latex Inks are not classified as hazardous waste⁽⁵⁾ and are non-flammable and non-combustible. In compliance with the industry-leading certification, Nordic Swan, HP Latex Inks do not produce ozone emissions during printing and contain no hazardous air pollutants.⁽⁶⁾

High-speed, high-quality printing for new levels of productivity.

HP Wide Scan Printing Technology delivers high productivity and high image quality using two proprietary HP technologies working together: HP Wide Scan Printheads and the HP Optical Media Advance Sensor (OMAS). The HP Designjet L65500 Printer with HP Wide Scan Printheads enables consistent, high-quality output at exceptionally fast print speeds.⁽⁷⁾ When PSPs reach new levels of productivity, business picks up speed.

The HP Designjet L65500 Printer features three 4.25-inch (108 mm) printheads with a total of 31,680 nozzles that support a firing frequency of up to 24 KHz and produce an 8.5-inch print swath. The printheads, combined with precise media advancement using HP OMAS, facilitate outdoor-quality prints at approximately 800 square feet per hour (70 square meters per hour) and approximately 400 square feet per hour (35 square meters per hour)⁽⁸⁾ for indoor quality prints.

With 10,560 nozzles per printhead, the HP Designjet L65500 Printer uses three printheads, each containing two colors of ink, to produce high-resolution indoor prints at up to 1200 dpi with a 12 picoliter drop size, allowing for a wide color gamut and sharp details while meeting the demands of high-speed, production-volume printing.

Key features and benefits

- Outdoor prints produced with HP Latex Inks achieve display permanence up to three years unlaminated and up to five years laminated and are scratch, smudge and water resistant on a range of media⁽²⁾ – performance comparable to solvent-ink technology.
- Indoor prints produced with HP Latex Inks achieve display permanence in-window up to five years unlaminated and up to 10 years laminated on Original HP media.⁽²⁾
- HP 786 Designjet Printheads together with HP 786 Latex Designjet Ink Cartridges produce sharp, vivid image quality across a variety of media, including most low-cost, uncoated, solvent-compatible media. With a design that supports an ink drop size as small as 12 picoliters, these printheads achieve the precision required to produce a wide color gamut and sharp detail – performance comparable to solvent-ink technology.⁽⁹⁾
- High-resolution – up to 1200 dpi. Print sharp, readable text as small as 4 point.
- HP Wide Scan Printing Technology – consisting of three scalable, high-speed HP Wide Scan Printheads – together with HP's proprietary OMAS, deliver outdoor-quality prints at approximately 800 square feet per hour, and indoor-quality prints at approximately 400 square feet per hour.⁽⁸⁾
- HP 786 Designjet Printheads support a firing frequency of up to 24 KHz. Each printhead contains two colors of ink and 1,200 nozzles per inch – or 10,560 nozzles per printhead – for precise, accurate placement of ink on the page enabling high speed, high productivity printing.
- HP Latex Inks produce odorless⁽¹⁾ prints that are durable enough for demanding applications such as outdoor displays, but lack the noticeable odor that can limit indoor applications – a characteristic more typical of prints produced with solvent-ink technology.

- Print color consistently across a range of temperature and humidity conditions over the life of the printer with HP DreamColor Technologies. The HP Designjet L65500 Printer uses an embedded spectrophotometer to automatically scan a printer-generated color target, measure its properties, then make and record any corrections allowing for fully automated color calibration.
- The new HP large-format media portfolio includes five recyclable substrates⁽³⁾, including HP HDPE Reinforced Banner, HP Tyvek Banner and HP Heavy Textile Banner, HP Photo-realistic Poster Paper and HP Wrinkle-free Flag with liner.
- Two specially treated HP media, HP Tyvek Banner and HP High Density Polyethylene (HDPE) Reinforced Banner, provide both image quality and durability when printing with HP Designjet L65500 Printer using HP Latex Inks. This proprietary new HP media surface-treatment technology produces a wide color gamut and makes it possible to achieve both durability and sharp, vivid image quality on materials that don't typically print well with solvent inks.
- Designed together, HP Latex Inks achieve the optimum in high quality, consistent performance and application versatility on Original HP large-format media. The variety of HP media includes both outdoor and indoor substrates, and ranges from low-cost, uncoated media to a selection of banner, self-adhesive, film, fabric, paper, mesh and specialty options.
- HP Latex Inks are not classified as a hazardous material per transportation requirements,⁽⁵⁾ there are no hazard warning labels and they are not considered hazardous waste. These inks are also non-flammable and non-combustible.
- Unlike printers using solvent inks, the HP Designjet L65500 Printer using water-based HP Latex Inks and HP 786 Designjet Printheads does not require daily, manual printhead maintenance.⁽¹⁰⁾
- Individual HP 786 Designjet Printheads are user replaceable, eliminating the downtime and expense of a service call. Replace ink and media less frequently with 3-liter ink cartridges and 110 kg media roll support.
- HP makes it easy to recycle Original HP 786 Designjet Printheads. The HP Planet Partners program is a free, convenient and industry-leading return and recycling program for HP printing supplies available in more than 47 countries. Customers can check the cartridge box or visit www.hp.com/recycle for details.¹¹
- Designed to reduce the impact of printing on the environment with HP products, the innovative new design of HP 786 3-liter Latex Designjet Ink Cartridges includes a recyclable cardboard container to reduce materials use and maximize usable ink. These ink cartridges have no special handling or extensive transportation requirements.
- Water-based HP Latex Inks are completely cured inside the HP Designjet L65500 printer to form a durable film on the print medium. Prints come out of the printer ready to use, finish and prepare for shipment, enabling high productivity.
- For seamless integration with customers' existing workflows, HP is working with major software RIP vendors, including Caldera Graphics, ColorGATE, Ergosoft, ONYX Graphics, Wasatch, AIT and SA International. HP will also be launching a

Registered Developer Program intended to ensure adopters of HP Latex Printing Technologies will have the ability to select from a wide range of substrates suitable for new and existing applications.

Technical specifications

- Print speeds:
 - Outdoor-quality prints: approximately 800 square feet per hour (70 square meters per hour)⁽⁸⁾
 - Indoor-quality prints: approximately 400 square feet per hour (35 square meters per hour)⁽⁸⁾
- Print resolution: Up to 1200 x 600 dpi
- Media
 - Handling: Roll feed
 - Types: supports most low-cost, uncoated, solvent-compatible media
 - Size: Up to 2.64m (104 inches) wide
 - Loading: Up to 110 kg (242 lb), up to 25 cm (9.8 inch) outside diameter
- Printing
 - Six-ink printing with HP 786 3-liter Latex Designjet Ink Cartridges: cyan, magenta, yellow, light cyan, light magenta and black.
 - Three total HP Wide Scan Printheads (each contains two colors – cyan/black, yellow/magenta, light magenta/light cyan)
 - Ink Type: HP Latex Inks
 - Nozzles: 10,560 per printhead
 - Outdoor display: up to 3 years unlaminated, 5 years laminated⁽²⁾ on a range of media
 - Indoor display: up to 5 years unlaminated, 10 years laminated⁽²⁾ on a range of media
 - Ink drop: 12 picoliters
- The HP 786 Designjet Maintenance Kit, including a printhead cleaner roll and two air filters, keeps the HP Designjet L65500 printer operating at peak performance.
- Interfaces: Gbit Ethernet

Supported Original HP Latex printing supplies for HP Designjet L65500 Printer

- Original HP Latex ink cartridges
 - HP 786 3-liter Black Latex Designjet Ink Cartridge
 - HP 786 3-liter Cyan Latex Designjet Ink Cartridge
 - HP 786 3-liter Magenta Latex Designjet Ink Cartridge
 - HP 786 3-liter Yellow Latex Designjet Ink Cartridge

- HP 786 3-liter Light Cyan Latex Designjet Ink Cartridge
- HP 786 3-liter Light Magenta Latex Designjet Ink Cartridge
- Original HP maintenance kit
 - HP 786 Designjet Maintenance Kit
- Original HP printheads
 - HP 786 Yellow/Magenta Designjet Printhead
 - HP 786 Cyan/Black Designjet Printhead
 - HP 786 Light Magenta/Light Cyan Designjet Printhead
- Original HP media optimized for use with HP Latex Inks

Banners:

- HP HDPE Reinforced Banner (recyclable)⁽³⁾
- HP Outdoor Frontlit Scrim Banner (PVC substrate)
- HP Durable Frontlit Scrim Banner (PVC substrate)
- HP Backlit Scrim Banner (PVC substrate)

Self-adhesives

- HP Permanent Gloss Adhesive Vinyl
- HP Permanent Matte Adhesive Vinyl

Films

- HP Premium Backlit Film

Fabric

- HP Wrinkle-free Flag with liner (recyclable)⁽³⁾
- HP Heavy Textile Banner (recyclable)⁽³⁾

Paper

- HP Blue Back Billboard Paper
- HP Photo-realistic Poster Paper (recyclable)⁽³⁾

Mesh

- HP Mesh Banner with liner (PVC substrate)

Specialty

- HP Satin Canvas
- HP Tyvek Banner (recyclable)⁽³⁾

Additional Information

More information about HP Latex Printing Technologies is available at www.hp.com/go/hp_latex_printing_technologies. More information about HP Designjet L65500 Printer is available at www.hp.co/go/designjetL65500

Pricing and availability

The HP Designjet L65500 Printer featuring HP Latex Printing Technologies will be available in early 2009. For specific information on pricing and availability, customers should contact their regional HP representatives.

¹ Printers using HP Latex Inks use internal heaters to dry and cure the latex polymer film. Some substrates may have inherent odor.

² HP image permanence and scratch, smudge, and water resistance estimates by HP Image Permanence Lab. Display permanence tested according to SAE J1960 using HP Latex and solvent inks on a range of media, including HP media; in a vertical display orientation in simulated nominal outdoor display conditions for select high and low climates, including exposure to direct sunlight and water; performance may vary as environmental conditions change. Scratch, smudge, and water resistance tested using HP Latex and solvent inks on a wide range of HP media. Laminated display permanence using Neschen Solvoprint Performance Clear 80 laminate. Results may vary based on specific media performance.

Interior in-window display ratings by HP Image Permanence Lab on a range of media including HP media. HP in-window predictions based on test data under Xenon-Arc illuminant. Calculation assumes 6,000 Lux/12 hr day. Laminated display permanence using Neschen Solvoprint Performance Clear 80 laminate. For more information, see www.hp.com/go/supplies/printpermanence.

³ Recycling opportunities for this product may not exist in your area. Customers should consult local recycling resources for recycling this product.

⁴ Special ventilation is not required to meet US OSHA requirements on occupational exposure to VOCs from HP Latex Inks. Ventilation equipment installation is at the discretion of the customer—no specific HP recommendation is intended. Typically no air discharge permitting required with inks that emit extremely low levels of VOCs. Customers should consult state and local requirements and regulations.

⁵ HP Latex Inks are generally not considered hazardous waste. Customers should consult state and local requirements and regulations.

⁶ No ozone products expected based on ink composition and printing technology; HAPs per US Environmental Protection Agency Method 311.

⁷ In the price/performance category for which printers based on HP Latex Printing Technologies are intended.

⁸ Outdoor-quality speed based on printing in 2-pass unidirectional print mode; indoor-quality speed based on printing in 4-pass unidirectional print mode.

⁹ Results are comparable across ink technologies in similar system configurations.

¹⁰ Printers using HP Wide Scan Printing Technology employ fully-automatic printhead testing and maintenance systems.

¹¹ Program availability varies. HP printing supplies return and recycling is currently available in more than 47 countries, territories and regions in Asia, Europe and North and South America through the HP Planet Partners program. For more information, please visit www.hp.com/recycle.

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5/2008

