HP Latex 3100 Printer

Produce a wide range of applications, delivering on short turnaround times

Offer a diverse range of high-quality applications

- Versatile HP Latex Technology and HP Latex Optimizer deliver high image quality at speed[1]
- Handle diverse campaign and production needs from high-value indoor to economical outdoor applications
- Superb quality for signage and decoration—wide color gamut, sharp, repeatable quality, 6 colors, 1200 dpi
- Retain media value—HP Latex Inks conform to the media surface, preserving gloss and texture, unlike UV

Handle peaks in production

- Respond to increasingly shorter turnaround times without sacrificing quality—77 m^2/hr (830 ft^2/hr) indoor high quality[2]
- Proof while printing with the LED Proofing Lights for on-printer visual assessment and proofing
- Increase efficiency—Printer Status Beacon enables one person to operate multiple printers effectively
- Confidently increase unattended printing with HP Latex Mobile app[3] for remote production monitoring

Enable higher profitability

- Help reduce maintenance costs—with ramp-up training, HP Print Care preventive maintenance, uptime kits
- Help reduce support and service fees with easy servicing your operator can perform
- Maintain control over your costs and contract commitments by keeping peaks of production in-house
- JDF enabled for integrating production data—for more accurate data analysis, accounting, and cost control

For more information, please visit
hp.com/go/Latex3100

Join the community, find tools, and talk to experts. Visit the HP Latex Knowledge Center at
hp.com/communities/HPLatex

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[1] The HP Latex 3100 Printer is based on HP Thermal Inkjet technology—seven printheads providing over 70,000 nozzles with 12 picoliter drops, nozzle redundancy, and automatic maintenance features—enabling high image quality at high speed over long runs compared to piezo-based technology.

[2] Printed in Indoor High Quality mode (6-pass 6-color 100%).

[3] HP Latex Mobile is compatible with Android™ 4.1.2 or later and iPhone mobile digital devices running iOS 6 or later, and requires the printer and the smart phone to be connected to the Internet. Support for tablet devices available as of September, 2015.

Respond to peaks in production, without sacrificing quality

As markets move toward increasingly shorter turnaround times, the need to be able to meet contract commitments for the volumes of work at the quality customers expect is ever-growing—while at the same time hitting the costs needed to remain profitable.

The HP Latex 3100 Printer is designed to meet exactly these needs. Capable of producing the highest quality for demanding sign and display and interior decoration applications, through to the price point economical outdoor require, the HP Latex 3100 Printer delivers the speed, quality, and versatility to meet peaks in production, avoid outsourcing, and meet your contract commitments.

HP Latex prints are completely cured inside the printer, forming a durable print that's ready for instant finishing, lamination, shipment, or display.

The HP Latex 3100 Printer features profound technological innovations building on the benefits of third-generation HP Latex Ink technology, combined with highly efficient workflow features, all driving the ability to respond to increasingly short turnaround times.

HP Latex Optimizer
Achieve high image quality at high speed:

- HP Latex Optimizer is the key component for delivering high image quality at the speeds achieved by the HP Latex 3100 Printer

- Interacts with HP Latex Inks to rapidly immobilize pigments on the surface of the print

- The result—sharp, crisp images, without sacrificing quality at high speeds

HP 881 5-liter Latex Inks
Take advantage of the wide color gamut and versatile performance of HP Latex Inks, plus:

- Retain the value added from the media; HP Latex Inks conform to the media surface, preserving gloss and textures, unlike UV

- Consider using prints unlaminated[4] for short-term applications such as events and exhibition graphics

Consistent Image quality
Benefit from industry-leading innovation designed to maintain consistent image quality:

- Embedded spectrophotometer for closed-loop color calibration

- Automatic nozzle-out detection and replacement

- Automatic printhead cleaning

- Dynamic Swath Alignment and OMAS sensor for suppressing banding, even at high speeds

LED Proofing Lights
Proof while printing, saving time and reducing waste:

- LED Proofing Lights for on-the-fly visual inspection and proofing

- Front light, and a backlight ideal for high-value backlit applications

- No need to stop the printer, saving time, media, and ink

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[4] Scratch resistance is comparable to hard solvent inks on self-adhesive vinyl and PVC banner. Scratch-resistance comparison based on testing HP Latex Inks and representative hard-solvent inks. Estimates by HP Image Permanence Lab on a range of media.

Build a healthier environment, inside and out[5]

Water-based HP Latex Inks enable a healthier approach to signage printing with advantages from the work zone to the point-of-display of finished prints:

- Healthier printing with HP Latex—no special ventilation, no hazard warning labels or HAPs[5]
- UL ECOLOGO® Certified HP Latex Inks meet a range of stringent human health criteria[6]
- A safer workplace—HP Latex Inks are non-flammable, non-combustible and nickel free[7]
- UL GREENGUARD GOLD Certified HP Latex Inks;[8] produce odorless prints ideal for indoor display

PRODUCT CERTIFIED FOR REDUCED ENVIRONMENTAL IMPACT. VIEW SPECIFIC ATTRIBUTES EVALUATED: UL.COM/GG UL 2801

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS. VIEW SPECIFIC ATTRIBUTES EVALUATED: UL.COM/GG UL 2818

Printer Status Beacon
Increase your labor efficiency:

- Intuitive signaling systems help production managers and operators to see the status of the HP Latex 3100 Printer from afar
- No need to be at the printer
- Enables one operator to manage multiple printers and finishing equipment much more effectively
- Works together with the HP Latex Mobile Application[9] for remote production monitoring

HP Latex Mobile application[9]
Improve operational efficiency with confidence during unattended operation:

- The HP Latex Mobile application provides remote visibility of production
- Monitor printer and job status
- See the jobs in the queue
- Push-message notifications for warnings and alerts
- Manage multiple HP Latex printers[9] from one mobile device

JDF enabled
Integrate the HP Latex 3100 Printer production data directly to an MIS system or the RIP via JDF:

- JDF—The industry standard communication language / protocol between devices
- Helps improve production planning
- Delivers more accurate costing and estimating
- Helps improve competitive pricing and profitability

HP Latex 3000 Ink Collector Kit (optional)
Print unlined mesh banner and porous textiles:

- Simply install and remove the ink collector as needed
- Disposable foams absorb excess ink and are easy to replace when full
- Easy post-printing clean up and disposal with the advantages of water-based HP Latex Inks, unlike printing mesh and textiles with UV inks

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5 Based on a comparison of HP Latex Ink technology to competitors with leading market share as of December, 2013 and analysis of published MSDS/SDSs and/or internal evaluation. Performance of specific attributes may vary by competitor and ink technology/formulation. Special ventilation equipment (air filtration) is not required to meet U.S. OSHA requirements. Special ventilation equipment installation is at the discretion of the customer—see the Site Preparation Guide for details. Customers should consult state and local requirements and regulations. Contains no Hazardous Air Pollutants according to EPA Method 311.
6 UL ECOLOGO® Certification to UL 2801 demonstrates that an ink meets a range of multi-attribute, lifecycle based criteria related to human health and environmental considerations (see ul.com/EL).
7 Water-based HP Latex Inks are not classified as flammable or combustible liquids under the USDOT or international transportation regulations. Testing per the Pensky-Martins Closed Cup method demonstrated flash point greater than 110° C. Nickel free demonstrated according to testing conducted for HP Latex Inks to achieve UL ECOLOGO® Certification. UL ECOLOGO® Certification to UL 2801 demonstrates that an ink meets a range of multi-attribute, lifecycle based criteria related to human health and environmental considerations (see ul.com/EL).
8 UL GREENGUARD GOLD Certification to UL 2818 demonstrates that products are certified to UL's GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg or greenguard.org.
9 Only HP Latex 300 series printers are supported. Additional printer support will be announced when available. HP Latex Mobile is compatible with Android™ 4.1.2 or later and iPhone mobile digital devices running iOS 6 or later, and requires the printer and the smart phone to be connected to the Internet. Support for HP Latex 3000 Printer series and tablet devices available as of September, 2015.

Technical specifications

Printing	Printing modes	27 m²/hr (290 ft²/hr) - High Saturation Backlits (18-pass 6c 230%)
		44 m²/hr (470 ft²/hr) - Textiles and Canvas (10-pass 6c 170%)
		77 m²/hr (830 ft²/hr) - Indoor High Quality (6-pass 6c 100%)
		120 m²/hr (1290 ft²/hr) - Outdoor (3-pass 6c 80%)
		180 m²/hr (1950 ft²/hr) - Billboard (2-pass 4c 70%)
	Print resolution	Up to 1200 x 1200 dpi
	Ink cartridges	Black, cyan, light cyan, light magenta, magenta, yellow, HP Latex Optimizer
	Cartridge size	5 liter
	Color consistency	Maximum color difference (95% of colors) <= 2 dE2000[10]
Media	Handling	Roll-to-roll, roll-to-free fall, roll-to-collector, dual-roll, double sided
	Media types	Banners, self-adhesive vinyls, films, papers, wallcoverings, canvas. Mesh and porous textiles with optional ink collector.
	Roll size	Single roll up to 3.2 m (126 in) Dual roll up to 2 x 1.60 m (2 x 63 in)
	Roll weight	Single roll up to 160 kg (350 lb) Dual roll up to 2 x 70 kg (2 x 155 lb)
	Roll diameter	Up to 30 cm (11.8 in)
	Thickness	Up to 0.4 mm (0.015 in), by default Up to 2.0 mm (0.08 in), with custom carriage height setting
	Double sided	Registration accuracy 5 mm/m (0.06 in/ft), intended for double-sided PVC blockout banners
Dimensions (w x d x h)		Printer: 598 x 172 x 187 cm (235 x 68 x 74 in) Shipping: 586 x 193 x 216 cm (231 x 76 x 85 in)
Weight		Printer: 1740 kg (3840 lb); Shipping: 2500 kg (5510 lb)
What's in the box		HP Latex 3100 Printer, HP 881 Latex Printheads, HP 881 Latex Cleaning Roll, 126-in spindles (x2), 126-in dual roll spindles (x2), dual roll center support, HP Internal Print Server, HP webcam, documentation software, user manual, media edge holders (x4), Original HP sample media, cleaning supplies, spindle supports (x2), pneumatic gun
Environmental ranges		Standard operating conditions: Temperature: 15 to 30°C (59 to 86°F) Humidity: 20 to 70% RH (non-condensing)
		Optimal IQ operating conditions: Temperature: 20 to 25°C (68 to 77°F) Humidity: 30 to 60% RH (non-condensing)
Power consumption		9 kW (typical) - high-quality indoor mode (6-pass)
		11 kW (typical) - outdoor mode (3-pass)
Certification	Safety	IEC 60950-1+A1 compliant; United States and Canada (CSA listed); EU (LVD and MD compliant, EN60950-1, EN12100-1, EN60204-1, and EN1010); Russia, Belarus and Kazakhstan (EAC); Australia, New Zealand (RCM)
	Electromagnetic	Compliant with Class A requirements, including USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia (ACMA), New Zealand (RSM)
	Environmental	WEEE, EU RoHS, China RoHS, REACH
Warranty		One-year limited hardware warranty

Ordering information

Product	L2E27A	HP Latex 3100 Printer
Accessories	CQ755B	HP Scitex Caldera RIP Software
	D9Z41A	HP Scitex Onyx Thrive 211 RIP Software
	M2J33A	HP Latex In-line Slitters
	CZ065A	HP Latex 3000 Ink Collector Kit
	F1V49A	HP Latex 3000 Ink Collector Foams Kit
	F0D27A	HP Latex 3000 Edge Holder Kit
	CZ059A	HP Latex 126-in Carbon Fiber Spindle
	G1K80A	HP Latex 126-in Dual Roll Spindle
Original HP printheads	CR327A	HP 881 Yellow/Magenta Latex Printhead
	CR328A	HP 881 Cyan/Black Latex Printhead
	CR329A	HP 881 Light Magenta/Light Cyan Latex Printhead
	CR330A	HP 881 Latex Optimizer Printhead
Original HP ink cartridges and maintenance supplies	CR331A	HP 881 5-liter Cyan Latex Ink Cartridge
	CR332A	HP 881 5-liter Magenta Latex Ink Cartridge
	CR333A	HP 881 5-liter Yellow Latex Ink Cartridge
	CR334A	HP 881 5-liter Black Latex Ink Cartridge
	CR335A	HP 881 5-liter Light Cyan Latex Ink Cartridge
	CR336A	HP 881 5-liter Light Magenta Latex Ink Cartridge
	CR337A	HP 881 5-liter Latex Optimizer Ink Cartridge
	CR339A	HP 881 Latex Cleaning Roll
Original HP large format printing materials		HP printing materials are designed together with HP Latex Inks and HP Latex printers to provide optimal image quality, consistency, and reliability.
		HP PVC-free Wall Paper (FSC® and UL GREENGUARD GOLD Certified)[11]
		HP Permanent Gloss Adhesive Vinyl REACH[12]
		HP Backlit Polyester Film ♻[13]
		HP Premium Satin Canvas
		For the entire HP Large Format Printing Materials portfolio, please see HPLFMedia.com.
Service kits	D4J02A	HP Latex 3000 Series Standard Uptime kit D4J02A
	M7J62A/K4G10-67076	HP Latex 3000 Series Extended Uptime Kit
	M7J49A/K4G10-67078	HP Latex 3100/3500 Printer Maint. Kit
	CZ056-67310	HP Latex 3000 Series Service Maintenance Kit
Service contracts	HK707AC-L2E27A	HP Parts and Remote Hardware Support Contract

[10] The color variation inside a printed job has been measured to be within this limit: maximum color difference (95% of colors) <= 2 dE2000. Reflective measurements on a 943 color target under CIE standard illuminant D50, and according to the standard CIEDE2000 as per CIE Draft Standard DS 014-6/E:2012. 5% of colors may experience variations above 2 dE2000. Backlit substrates measured in transmission mode may yield different results.

[11] BMG trademark license code FSC®-C115319, see fsc.org. HP trademark license code FSC®-C017543, see fsc.org. Not all FSC®-certified products are available in all regions. UL GREENGUARD GOLD Certification to UL 2818 demonstrates that products are certified to UL's GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg or greenguard.org.

[12] This product does not contain substances listed as SVHC (155) per Annex XIV of the EU REACH directive published as of June 16, 2014 in concentrations exceeding 0.1%. To determine the status of SVHC in HP products, see the HP REACH Declaration published at HP Printing Products and Consumable Supplies.

[13] HP Large Format Media take-back program availability varies. Recycling programs may not exist in your area. See HPLFMedia.com/hp/ecosolutions for details.

3M™ MCS™ Warranty