



# HP Latex 310 Printer

Your entry option to outdoor—and a perfect fit for small spaces



## Expand your applications—beat client expectations

- Print traditional signs and more—from low cost uncoated to POP, backlights, canvas, wall décor—up to 54 inches
- Reach new indoor spaces that solvent can't, like healthcare—water-based HP Latex Ink prints are odorless
- Win new clients on eco standards—UL ECOLOGO®, UL GREENGUARD GOLD Certified inks; prints meet AgBB criteria<sup>1</sup>
- Produce sharp, consistent, repeatable image quality with high-efficiency curing, 6 colors, and 1200 dpi

## Same-day delivery—you can say “yes” to every job

- Eliminate waiting time—prints come out completely dry and ready for finishing and delivery
- Print and deliver in record time with fast warm-up and immediate ripping
- Deliver with confidence—outdoor prints last up to 5 years laminated, 3 years unlaminated<sup>2</sup>
- You can minimize damage risk—scratch resistance is comparable to hard-solvent inks on SAV and PVC banner<sup>2</sup>

For more information, please visit [hp.com/go/Latex310](http://hp.com/go/Latex310)

Join the community, find tools, and talk to experts. Visit the HP Latex Knowledge Center at [hp.com/communities/HPLatex](http://hp.com/communities/HPLatex)

## Keep your running costs low with easy operation

- Free up workspace and your operator with front media loading and automatic, reliable, low-maintenance printing
- Use optimized profiles, customize yours—HP Quick Substrate Profiling; easy FlexiPrint HP Edition RIP inbox
- Healthier printing with HP Latex—no special ventilation, no hazard warning labels or HAPs, nickel free<sup>3</sup>
- This ENERGY STAR Certified printer meets strict energy efficiency guidelines and is EPEAT registered<sup>4</sup>

<sup>1</sup> UL ECOLOGO® Certification to UL 2801 demonstrates that an ink meets a range of stringent criteria related to human health and environmental considerations (see [ul.com/EL](http://ul.com/EL)). 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](http://ul.com/gg) or [greenguard.org](http://greenguard.org). HP WallArt printed on HP PVC-free Wall Paper and other prints on HP PVC-free Wall Paper printed with HP Latex Inks meet AgBB criteria for health-related evaluation of VOC emissions of indoor building products, see [umweltbundesamt.de/en/topics/health/commissions-working-groups/auschuss-zur-gesundheitlichen-bewertung-von](http://umweltbundesamt.de/en/topics/health/commissions-working-groups/auschuss-zur-gesundheitlichen-bewertung-von).

<sup>2</sup> Estimates by HP Image Permanence Lab on a range of media. Scratch-resistance comparison based on testing HP Latex Inks and representative hard-solvent inks. Outdoor display permanence tested according to SAE J2527 using HP Latex 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. Laminated display permanence using HP Clear Gloss Cast Overlaminates. Results may vary based on specific media performance.

<sup>3</sup> 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. HP Latex Inks were tested for Hazardous Air Pollutants, as defined in the Clean Air Act, per U.S. Environmental Protection Agency Method 311 (testing conducted in 2013) and none were detected. 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 stringent criteria related to human health and environmental considerations (see [ul.com/EL](http://ul.com/EL)).

<sup>4</sup> EPEAT registered where applicable/supported. See [epeat.net](http://epeat.net) for registration status by country.



## Take advantage of third-generation HP Latex Printing Technologies

Water-based HP Latex Inks combine the best characteristics of solvent inks and water-based inks.

With HP Latex Inks, you can obtain outdoor durability and versatility across all common media types used in sign and display applications, together with high-quality, odorless prints, low maintenance, and health advantages<sup>5</sup>—even over eco-solvent inks.

HP Latex printing with the HP Latex 310 Printer can generate higher profit than eco-solvent—gain all the advantages of HP Latex printing, including wider application versatility with a single printer and prints that come out completely dry, allowing same-day delivery. Buy in at an affordable price, and see how you can keep your running costs low.

The HP Latex 310 Printer features a number of significant innovations that take you beyond the limits of eco-solvent printing, creating new opportunities to expand your business.



### HP 831 Latex Inks

Take advantage of the versatile, durable performance of HP Latex Inks:

- Scratch resistance comparable to hard-solvent inks on SAV and PVC banner—you can consider unlaminate use for short-term signage<sup>6</sup>
- Prints are completely cured and dry inside the printer, and ready for immediate finishing and delivery



### HP Latex Optimizer

Achieve high image quality at high productivity:

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



### HP 831 Latex Printheads

See robust and reliable quality print to print:

- Six HP printheads provide 12,672 nozzles



### High-efficiency curing

High-speed printing with less energy and at lower temperatures:<sup>7</sup>

- 12 m<sup>2</sup>/hr (129 ft<sup>2</sup>/hr) indoor quality, 16 m<sup>2</sup>/hr (174 ft<sup>2</sup>/hr) outdoor plus quality, 48 m<sup>2</sup>/hr (517 ft<sup>2</sup>/hr) maximum print speed<sup>8</sup>

<sup>5</sup> 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.

<sup>6</sup> 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.

<sup>7</sup> Third-generation HP Latex Printing Technologies, including HP Latex Optimizer, reduce the temperatures and energy requirements of drying and curing HP Latex Inks.

<sup>8</sup> Indoor prints (8-pass 6-color) mode; outdoor plus prints (6-pass 6-color) mode; maximum print speed in billboard (2-pass 4-color) mode.



HP B31 Latex Ink Cartridges, certified by the Eco Mark Office of Japan Environment Association

## Build a healthier environment, inside and out<sup>9</sup>

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<sup>9</sup>
- UL ECOLOGO® Certified HP Latex Inks meet a range of stringent human health criteria<sup>10</sup>
- A safer workplace—HP Latex Inks are non-flammable, non-combustible and nickel free<sup>11</sup>
- UL GREENGUARD GOLD Certified HP Latex Inks; odorless prints; printer over 85% recyclable<sup>12</sup>

## Improve uptime and productivity with HP Services

HP Services offer you a broad portfolio of proven support programs to help keep your business running productively including HP Care Pack Services, preventive maintenance kits, and HP Support Programs.



### Color consistency

Print panels or tiles with excellent color consistency for an edge-to-edge match:

- Delivers consistent colors to  $\leq 2 \text{ dE}2000^{13}$



### HP Quick Substrate Profiling

Simplified color management, directly from the front panel, 4-inch touchscreen:

- Pre-installed generic and HP substrate profile library
- Online substrate library access from the front panel
- Fine-tune existing profiles



### Increase your productivity with easy operation

- Intuitive SAI FlexiPrint HP Edition RIP included inbox
- Easy access to how-to videos, from QR codes available in the front panel
- Front media loading puts your operator in a better position to multitask



### HP Latex Mobile<sup>14</sup>

Print with greater confidence while you're away from the printer:

- Rely on alerts to inform you when attention is needed
- Know the status of your printer while you're away from it
- Remotely keep tabs on print jobs

<sup>9</sup> 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.

<sup>10</sup> UL ECOLOGO® Certification to UL 2801 demonstrates that an ink meets a range of stringent criteria related to human health and environmental considerations (see [ul.com/EL](http://ul.com/EL)).

<sup>11</sup> 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 stringent criteria related to human health and environmental considerations (see [ul.com/EL](http://ul.com/EL)).

<sup>12</sup> 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](http://ul.com/gg) or [greenguard.org](http://greenguard.org). This printer contains more than 85% recyclable/reusable content by weight.

<sup>13</sup> The color variation inside a printed job has been measured to be within this limit: maximum color difference (95% of colors)  $\leq 2 \text{ dE}2000$ . 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.



<sup>14</sup> As of January, 2015, only Latex 300 Series printers are supported. Additional printer support will be announced when available. HP Latex Mobile is compatible with Apple® iOS and Android™ smart phones and requires the printer and the smart phone to be connected to the Internet.

## Technical specifications

<b>Printing</b>	Printing modes	48 m <sup>2</sup> /hr (517 ft <sup>2</sup> /hr) - Billboard (2 pass) 16 m <sup>2</sup> /hr (174 ft <sup>2</sup> /hr) - Outdoor Plus (6 pass) 12 m <sup>2</sup> /hr (129 ft <sup>2</sup> /hr) - Indoor Quality (8 pass) 10 m <sup>2</sup> /hr (108 ft <sup>2</sup> /hr) - Indoor High Quality (10 pass) 6 m <sup>2</sup> /hr (65 ft <sup>2</sup> /hr) - Backlits, Textiles, and Canvas (16 pass) 5 m <sup>2</sup> /hr (54 ft <sup>2</sup> /hr) - High Saturation Textiles (20 pass)	
	Print resolution	Up to 1200 x 1200 dpi	
	Ink types	HP Latex Inks	
	Ink cartridges	Black, cyan, light cyan, light magenta, magenta, yellow, HP Latex Optimizer	
	Cartridge size	775 ml	
	Printheads	6 (2 cyan/black, 2 magenta/yellow, 1 light magenta/light cyan, 1 HP Latex Optimizer)	
	Color consistency	<= 2 dE (95% colors) <= 1 dE average <sup>15</sup>	
	<b>Media</b>	Handling	Roll feed; take-up reel (optional)
		Media types	Banners, self-adhesive vinyls, films, papers, wallcoverings, canvas, synthetics, (fabrics, mesh, textiles and any other porous materials require a liner)
		Roll size	254 to 1371-mm (10 to 54-in) rolls (580 to 1371-mm (23 to 54-in) rolls with full support)
Roll weight		25 kg (55 lb)	
Roll diameter		180 mm (7.1 in)	
Thickness	Up to 0.5 mm (19.7 mil)		
<b>Applications</b>	Banners, Displays, Exhibition, Event graphics, Exterior signage, Indoor posters, Interior decoration, Light boxes – film, Light boxes – paper, Murals, POP/POS, Posters, Vehicle graphics		
<b>Connectivity</b>	Interfaces (standard)	Gigabit Ethernet (1000Base-T)	
<b>Dimensions (w x d x h)</b>	Printer	2307 x 840 x 1380 mm (91 x 33 x 54 in)	
	Shipping	2541 x 760 x 1250 mm (100.1 x 30 x 49.3 in)	
<b>Weight</b>	Printer	174 kg (384 lb)	
	Shipping	257.5 kg (568 lb)	
<b>What's in the box</b>	HP Latex 310 Printer, printheads, maintenance cartridge, printer stand, spindle, user maintenance kit, edge holders, quick reference guide, setup poster, documentation software, FlexiPrint HP Edition RIP, power cords		
<b>Environmental ranges</b>	Operating temperature	15 to 30°C (59 to 86°F)	
	Operating humidity	20 to 80% RH (non-condensing)	
	Storage temperature	-25 to 55°C (-13 to 131°F)	
<b>Acoustic</b>	Sound pressure	54 dB(A) (printing); < 15 dB(A) (sleep)	
	Sound power	7.2 B(A) (printing); < 3.5 B(A) (sleep)	
<b>Power</b>	Consumption	2.2 kW (printing); < 2.5 watts (sleep)	
	Requirements	Input voltage (auto ranging) 200 to 240 VAC (-10% +10%) two wires and PE; 50/60 Hz (+/- 3 Hz); two power cords; 3 A max for printer and 13 A max per curing	
<b>Certification</b>	Safety	IEC 60950-1+A1 compliant; USA and Canada (CSA listed); EU (LVD and EN 60950-1 compliant); Russia, Belarus, and Kazakhstan (EAC); Australia and New Zealand (RCM)	
	Electromagnetic	Compliant with Class A requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia and New Zealand (RCM), China (CCC), Japan (VCCI), Korea (KC)	
	Environmental	ENERGY STAR, WEEE, RoHS (EU, China, Korea, India), REACH, EPEAT Bronze, OSHA, CE marking compliant	
<b>Warranty</b>	One-year limited hardware warranty		



## Ordering information

<b>Product</b>	B4H69A	HP Latex 310 Printer
<b>Accessories</b>	F0M55A	HP Latex 54-in Printer 2-in Spindle
	F0M59A	HP Latex 3x0 User Maintenance Kit
	F0M61A	HP Latex 54-in Take Up Reel
	F0M64A	HP Latex 3x0 Edge Holders
<b>Original HP printheads</b>	CZ677A	HP 831 Cyan/Black Latex Printhead
	CZ678A	HP 831 Yellow/Magenta Latex Printhead
	CZ679A	HP 831 Light Magenta/Light Cyan Latex Printhead
	CZ680A	HP 831 Latex Optimizer Printhead
<b>Original HP ink cartridges and maintenance supplies</b>	CZ682A	HP 831A 775-ml Black Latex Ink Cartridge
	CZ683A	HP 831A 775-ml Cyan Latex Ink Cartridge
	CZ684A	HP 831A 775-ml Magenta Latex Ink Cartridge
	CZ685A	HP 831A 775-ml Yellow Latex Ink Cartridge
	CZ686A	HP 831A 775-ml Light Cyan Latex Ink Cartridge
	CZ687A	HP 831A 775-ml Light Magenta Latex Ink Cartridge
	CZ706A	HP 831 775-ml Latex Optimizer Ink Cartridge
CZ681A	HP 831 Latex Maintenance Cartridge	
<b>Original HP large format printing materials</b>	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) <sup>16</sup>	
	HP Everyday Matte Polypropylene, 3-in Core  <sup>17</sup>	
	HP Backlit Polyester Film  <sup>17</sup>	
	HP Premium Satin Canvas	
	For the entire HP Large Format Printing Materials portfolio, please see <a href="http://HPLFMedia.com">HPLFMedia.com</a> .	
<b>Service and support</b>	U1ZN6E	HP 2 year Next business day Defective Media Retention
	U1ZN7E	HP 3 year Next business day Defective Media Retention
	U1ZN8PE	HP 1 year Post warranty Next business day Defective Media Retention
	U1ZN9PE	HP 2 year Post warranty Next business day Defective Media Retention

<sup>15</sup> 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.

<sup>16</sup> BMG trademark license code FSC®-C115319, see [fsc.org](http://fsc.org). HP trademark license code FSC®-C017543, see [fsc.org](http://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](http://ul.com/gg) or [greenguard.org](http://greenguard.org).

<sup>17</sup> HP Large Format Media take-back program availability varies. Recycling programs may not exist in your area. See [HPLFMedia.com/hp/ecosolutions](http://HPLFMedia.com/hp/ecosolutions) for details.

