HP Latex 800 W Printer

Win high-value jobs with white ink and productive printing—and sharpen your sustainability edge



*Product image may differ from actual product

Expand into white, produce the highest value jobs

- Extend your portfolio into high-margin stickers and window graphics with the whitest white.[1]
- Print white without complexity—automatic recirculation and printhead cleaning reduce manual purging.
- Deliver vivid colours at high speed, get striking contrast using pure blacks, and expect sharp 4-point text.
- Choose from a wide application range covering banners/textiles/poster paper, canvas, wallpaper, and vinyl.

Robust, smart, and productive printing

- Drive high productivity with saturated colour at speeds up to 36 m²/hr outdoor[2], easy spindle-less loading.
- Control print operations virtually anytime, anywhere with HP PrintOS tools, and grow with HP Learn trainings.
- Work fast processing reprints and multi-copy jobs with a smart front panel, and store up to 100 jobs.
- Help reduce running costs with cost-effective 3-liter HP ink cartridges, changed while the printer runs.

GO BEYOND—Lead with environmental certifications[3]

- Contribute to a comfortable[4] working environment with water-based HP Latex Ink technology.
- Differentiate your business with environmental certifications[3]—including UL ECOLOGO®[5] and EPEAT.[6]
- Access the most sensitive spaces with odorless prints[4] and compatibility with a wide range of alternative substrates.[7]
- Reduce your plastics consumption with carton-based cartridge[8] and labelless supplies; free recycling via HP Planet Partners.[9]

This printer is intended to work only with cartridges that have a new or reused HP chip, and it uses dynamic security measures to block cartridges using a non-HP chip. Periodic firmware updates will maintain the effectiveness of these measures and block cartridges that previously worked. A reused HP chip enables the use of reused, remanufactured, and refilled cartridges. More at: http://www.hp.com/learn/ds

Messaging Footnotes

[1] Whitest white based on ISO/DIS 23498 compared to competitive alternatives using solvent and UV technologies under $50,000 USD as of May, 2020. Test performed on black opaque self-adhesive vinyl (L*:4.16 - a:0,48-b:2,34) with 160% UF printmode using HP 873 3-liter White Latex Ink Cartridge. Visual opacity = 91%.
[2] Outdoor mode (Banner) 4-pass, 100%. Based on internal HP testing in September 2020 on Avery 3001. Print speed may vary due to the adaptive printing mechanism to avoid image quality defects.
[3] Based on internal competitive analysis with public information. Applicable to HP Latex technology compared to competitive large format printing alternatives using solvent and UV technologies. See individual product data sheets for more information at https://hp.com/go/latex
[4] Applicable to HP Latex Inks. Based on sensory evaluations conducted by Odournet, done according to VDI Guideline 3882 where 832 and 873 inks were characterized as "weak" in odor intensity and "neutral" for hedonic tone. There is a broad set of media with very different odor profiles. Some of the media can affect the odor performance of the final print.
[5] UL ECOLOGO® Certified HP 832, HP 872, HP 873, and 882 Latex Inks and HP 864, 865, 865, 886, 867, 869, and 870 PageWide XL Inks meet a range of stringent human health and environmental considerations. Verified as of the publishing date in September 2023. For more details, please refer to the UL ECOLOGO® database at https://spot.ul.com/main-app/products/catalog/ or see https://www.ul.com/EL
[6] Applicable to select HP Latex printers. EPEAT registered where applicable/supported. See https://epeat.net for registration status by country.
[7] HP applications experts have evaluated the catalog of media listed in the HP Media Locator based on internal criteria to identify those that provide alternative solutions with certain environmental benefits compared to the typical media within the same application type. The information in media locator is provided by the media substrate vendors. HP is not responsible for the veracity of the information from third-party companies published on the HP website. See https://www.hp.com/go/mediasolutionslocator
[8] Applicable to HP 832. Plastic reduction based on moving from plastic ink cartridge to cardboard ink cartridges, with annual manufacturing saving of 33 tons of plastic based on average units of HP 831 and HP 831A ink cartridges from 2018 to 2020.
[9] Program availability varies. For details, see https://hp.com/hprecycle

For more information, please visit http://www.hp.com/go/latex800series Join the community, find tools, and talk to experts. Visit the HP Latex Knowledge Center at https://lkc.hp.com/

Datasheet

Technical specifications

Print

Print speed	122 m²/hr - Max Speed (1-pass); 36 m²/hr - High Speed (4-pass); 25 m²/hr - Production Fast (6-pass); 20 m²/hr - Production Quality, Textiles and Backlits (8-pass); 17 m²/hr - High Saturation (12-pass); 14 m²/hr - High Saturation Backlits and Textiles (14-pass); 17 m²/hr - White Spot (60%); 9 m²/hr - White Overflood (60%); 3 m²/hr - White Underflood (100%); 2 m²/hr - 3 Layers Day & Night (160%)[1]
Print resolution	Up to 1200 x 1200 dpi
Technology	HP Latex Printing Technologies
Ink types	Water-based HP Latex Inks
Ink cartridges	9 (black, cyan, light cyan, light magenta, magenta, yellow, white, HP Latex Optimizer, HP Latex Overcoat)
Cartridge size	3 L
Printheads	10 (2 cyan/black, 2 magenta/yellow, 2 light cyan/light magenta, 2 white, 1 HP Latex Optimizer, 1 HP Latex Overcoat)
Long-term print-to-print repeatability	95% of colours ≤ 1.5 dE2000[2]

Media

Applications	Banners; Displays; Exhibition and event graphics; Exterior signage; Indoor posters; Interior decoration; Light boxes - film; Light boxes - paper; Murals; POP/POS; Posters; Textile; Vehicle graphics; Window graphics; Stickers
Handling	Roll feed, take-up reel, wiper roller[3], media saver, automatic horizontal cutter (for vinyl, banner and canvas[4], paper-based media, and film)
Media rolls	1
Roll size	419 to 1625-mm rolls (580 to 1625-mm rolls with full support)
Maximum roll weight	55 kg
Maximum roll diameter	250 mm
Maximum media width	1625 mm
Thickness	Up to 0.5 mm
Media types	Banners, self-adhesive vinyls, films, fabrics, papers, wall coverings, canvas, synthetics, mesh, textiles[5]

Connectivity

Interfaces	Gigabit Ethernet (1000Base-T)

Dimensions (W x D x H)

Product	2583 x 866 x 1402 mm
Shipping	2753 x 1100 x 1666 mm
Operating area	2793 x 2100 mm

Weight

Product	300 kg
Shipping	438 kg

Included

What's in the box	HP Latex 800 W Printer, printheads, maintenance cartridge, printer stand, take-up reel, media feed accessory, user maintenance kit, edge holders, quick reference guide, documentation software, power cords, air purgers, 2-in spindle adaptor

Environmental ranges

Operating temperature	15 to 30ºC
Operating humidity	20 to 80% RH (non-condensing)

Acoustics

Sound pressure	Printing: 60 dB(A) (operating), 38 dB(A) (idle), <20 dB(A) (sleep)
Sound power	Printing: 7.8 B(A) (operating), 5.5 B(A) (idle), <3.5 B(A) (sleep)

Power

Consumption	1.5-2.5 kW (5 kW peak) (printing), 105 W (ready), <4.7 W[6] (sleep) (<24 W[7] with DFE), <0.25 W (off)
Requirements	Input voltage (auto ranging) 200-240 V two wires and PE; 50/60 Hz (±3 Hz); two power cords; 16 A max per power cord

Certification

Safety	IEC 60950-1+A1+A2 compliant; IEC 62368-1 compliant; USA and Canada (CSA listed); EU (LVD, EN 60950-1 and EN 62368-1 compliant); Russia, Belarus, and Kazakhstan (EAC); China (CCC)
Electromagnetic	Compliant with Class A requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia and New Zealand (RCM), Japan (VCCI), Korea (KCC), China (CCC)
Environmental	ENERGY STAR®, RoHS (WEEE, EU, EAEU, China, Korea, India, Ukraine, Turkey), REACH, EPEAT, OSHA, CE marking compliant, Meets AgBB criteria, French VOC A+, UL GREENGUARD Gold, UL ECOLOGO
Warranty	One-year limited hardware warranty

Ordering information

Product	
3XD61A	HP Latex 800 W Printer
Country of origin	Malaysia(ABG, B19, B1K, BCD)

Accessories

21V10A	HP Latex 600/700/800 Series User Maintenance Kit
421S3A	HP Latex Substrate Saver Accessory
7HR16A	HP Latex 700/800 Textile Kit Accessory
7HR18A	HP Latex 700/800 Series Ink Collector Foams Kit
7HR19A	HP Latex Substrate Loading Accessory
T7U73A	HP Latex 700/800 Series Wiper Roller

Original HP printing supplies

4UU93A	HP 836 White Latex Printhead
4UU94A	HP 836 Optimizer Latex Printhead
4UU95A	HP 836 Universal Latex Printhead
4UU96A	HP 836 Latex Maintenance Cartridge
4UV62A	HP 873 3-liter White Latex Ink Cartridge
4UV84A	HP 873 3-liter Black Latex Ink Cartridge
4UV85A	HP 873 3-liter Cyan Latex Ink Cartridge
4UV86A	HP 873 3-liter Magenta Latex Ink Cartridge
4UV87A	HP 873 3-liter Yellow Latex Ink Cartridge
4UV88A	HP 873 3-liter Light Cyan Latex Ink Cartridge
4UV89A	HP 873 3-liter Light Magenta Latex Ink Cartridge
4UV90A	HP 873 3-liter Optimizer Latex Ink Cartridge
4UV91A	HP 873 3-liter Overcoat Latex Ink Cartridge

Use Original HP inks and printheads, and HP large format printing materials, to experience consistent high quality and reliable performance that enable less downtime. These critical components are designed and engineered together as an optimized printing system, and Original HP inks are designed to maximize the life of HP printheads. Protect your HP printer investment by using Original HP inks for full HP warranty protection. For more information, visit https://hp.com/go/OriginalHPinks

Original HP large format printing materials

HP PVC-free Wallpaper (UL **GREENGUARD** GOLD Certified[8], FSC® certified[9], meets AgBB criteria[10])
HP Photo-realistic Poster Paper
HP Premium Satin Canvas
HP Prime Matte Air GP (REACH compliant[11])
HP Premium Removable Gloss Adhesive Vinyl (REACH compliant[11])

For the entire HP Large Format Printing Materials portfolio, please see HPLFMedia.com.

Service and Support

U13DDE HP 2 year Next Business Day with Defective Media Retention
U13DJE HP 3 year Next Business Day with Defective Media Retention
U13DNPE HP 1 year Post Warranty Next Business Day with Defective Media Retention
U13DTPE HP 2 year Post Warranty Next Business Day with Defective Media Retention

HP Support Services offer installation and extended support services (e.g. 2, 3, 4, and 5 years). For more information, please visit http://www.hp.com/go/cpc

Specification Footnotes

[1] Print speeds may vary due to the adaptive printing mechanism to avoid image quality defects.
[2] The colour variation between printed jobs has been measured at 12 pass mode on vinyl media. Reflective measurements on a 943 colour target under CIE standard illuminant D50, and according to the standard CIEDE2000 as per CIE Draft Standard DS 014-6/E:2012. 5% of colours may experience variations above 1.5 dE2000. Backlit substrates measured in transmission mode may yield different results.
[3] Wiper roller is an optional accessory.
[4] Automatic horizontal cutter is for use with thinner banners and canvas only. It is recommended to perform a test.
[5] Textile Kit Accessory required for long runs of textile and porous textile.
[6] Excluding Type 2 DFE (Digital Front End) as defined in Energy Star® Product Specification for Imaging Equipment version 3.1.
[7] Total power measured in sleep mode including the Digital Front End contained on the product.
[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 http://www.ul.com/gg or http://www.greenguard.org
[9] Trademark license code FSC-C115319.
[11] 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.

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