HP Latex 630 W Print and Cut Plus Solution

Embrace new possibilities with unbeatable white ink printing[1] and a seamless print and cut workflow



*Product image may differ from actual product

POSSIBILITIES—The best white ink print experience[1]

- Do more in your shop with the easiest white ink printer[1] that adapts to your business needs.
- Produce a wide range of signage and décor jobs including applications with thin film and papers.
- Deliver stunning prints with vivid colors, smooth gradients, and sharp text at 150 ft²/hr.[2]
- Print and cut simultaneously with reliable dual-device solution—accurate job recognition, error-free cutting.

EFFORTLESS—Get it done quickly and easily

- Find peace of mind with automatic maintenance processes and user-replaceable printheads.
- Save space and time with fast and automated frontloading system.
- Easily reprint projects with job storage in the printer up to 10 GB.
- Monitor your printer from anywhere and expand your capabilities with the cloud-based HP PrintOS app.

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[7] and compatibility with a wide range of alternative substrates.[8]
- Reduce your plastics consumption with carton-based cartridge[9] and labelless supplies; free recycling via HP Planet Partners.[10]

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] Easiest/best white ink experience due to transparent ink maintenance with Automatic Ink Recirculation System between the HP Latex 832 Ink Mix and HP 832 White Latex Ink Cartridge. This ensures white ink is constantly circulating and doesn't settle. It's easy to remove the white printhead from the carriage and store it in an offline rotation chamber when not printing with white ink. This avoids unnecessary white ink waste and prevents the white printhead from getting clogged because of its dense white ink chemistry. All white printmodes are available at different white ink densities to get different levels of opacity (spot, underflood, overflood, and 3-layer–up to 260% white ink density).
[2] Standard mode (Generic SAV Calendar) 6-pass, 6 colors, 110% ink density. Based on internal HP testing on MACTAC JT 8500 WG-PG. Print speed may vary due to the adaptive printing mechanism, which is designed 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 http://hp.com/go/latex
[4] Based on odor sensory evaluation when printing with the HP Latex 630 series printer and Mimaki UJV 100-160. Tests done in a 57 sqm room with 5ACH. Test conducted by Odournet following the standard VDI3882, where the HP Latex 630 series air quality were characterized, when Printing, as "neutral" for hedonic tone compared to the Mimaki UJV 100-160.
[5] UL ECOLOGO® Certified HP 832 Latex inks meet a range of stringent human health and environmental considerations. For certifications, see http://www.ul.com/EL and http://www.ul.com/gg
[6] Applicable to select HP Latex printers. EPEAT registered where applicable/supported. See http://epeat.net for registration status by country.
[7] 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.
[8] 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 http://www.hp.com/go/mediasolutionslocator
[9] 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.
[10] Program availability varies. For details, see http://hp.com/hprecycle

For more information, please visit https://www.hp.com/go/latex-630 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	35 m²/hr - Max Speed (2-pass); 18 m²/hr - Speed (4-pass); 14 m²/hr - Standard (6-pass); 11 m²/hr - Quality (8-pass); 8 m²/hr - High Saturation (12-pass); 7 m²/hr - Standard for Backlits and Textiles (14-pass); 6 m²/hr - White Spot (100%); 3 m²/hr - White Overflood (100%); 2 m²/hr - White Underflood (100%); 1 m²/hr - 3 Layers (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	1 L
Printheads	6 (1 cyan/black, 1 magenta/yellow, 1 light cyan/light magenta, 1 white, 1 HP Latex Optimizer, 1 HP Latex Overcoat)
Long-term print-to-print repeatability	95% of colors < 3 dE2000[2]

Media	
Applications	Banners, Customizable clothing, Displays, Exhibition and event graphics, Exterior signage, Floor graphics, Indoor posters, Interior decoration, Labels and stickers, Light boxes - film, Light boxes - paper, POP/POS, Posters, Vehicle graphics, Wall decals, Window graphics
Handling	Roll feed, take-up reel, automatic horizontal cutter (for vinyl, banner and canvas[3], paper-based media, and film)
Media rolls	1
Roll size	457 to 1625-mm rolls (580 to 1625-mm rolls with full support);
Maximum roll weight	42 kg;
Maximum roll diameter	250 mm;
Maximum media width	1625 mm;
Thickness	Up to 0.5 mm;
Media types	Banners, self-adhesive vinyls, films, papers, wallcoverings, canvas, synthetics, (fabrics, mesh, textiles, and any other porous materials require a liner)

Cutting	
Cut type	Drag-knife with TurboCut and Tangential emulation modes
Cut width	158 cm;
Cut speed	Up to 113 cm/sec diagonal;
Acceleration	Up to 3 G diagonal
Accuracy	0.2% of movement or 0.25 mm, whichever is greater;
Repeatability	±0.1 mm;
Cut force	1 to 600 grams of downforce, in 5-gram steps
Cut thickness	0.05 to 0.25 mm; 0.6 mm with optional speciality blade;

Connectivity	
Interfaces	Printer: Gigabit Ethernet (1000Base-T); Cutter: USB and Ethernet (LAN)

Dimensions (W x D x H)	
Product	Printer: 2603 x 844 x 1405 mm; Cutter: 1960 x 704 x 1112 mm;
Shipping	Printer: 2800 x 1130 x 1271 mm; Cutter: 2230 x 420 x 710 mm;

Weight	
Product	Printer: 236 kg; Cutter: 48 kg;
Shipping	Printer: 353 kg; Cutter: 74 kg;

Included	
What's in the box	Printer: HP Latex 630 W Printer, printheads, maintenance cartridge, printer stand, take-up reel, user maintenance kit, edge holders, quick reference guide, HP SAi Flexi RIP Print Cut Software, documentation software, power cords, air purgers, 2-in spindle adaptor; Cutter: HP Latex 64 Plus Cutter, cutter stand, media basket, HP Cutter Control software, quick reference guide, setup poster, documentation software, power cords, standard holder (1), standard blades (2), cut-off knife (1), 3-in media flanges (set of 2)
HP Software and solutions	HP PrintOS (PrintBeat, Configuration Center, HP Learn). Explore PrintOS premium software solutions within Professional Print Service Plans.

Environmental ranges	
Operating temperature	15 to 30°C ;
Operating humidity	Printer: 20 to 80% RH (non-condensing); Cutter: 35 to 75% RH (non-condensing)

Acoustics	
Sound pressure	Printing: Printer: 55 dB(A) (operating), 38 dB(A) (idle), <20 dB(A) (sleep); Cutter: 56 dB(A) (operating)
Sound power	Printing: Printer: 7.5 B(A) (operating), 5.5 B(A) (idle), <4 B(A) (sleep); Cutter: <7.3 B(A) (operating)

Power	
Consumption	Printer: 1.4-2.1 kW (2.9 kW peak) (average printing), 85 W (ready), <2.5 W[4] (sleep) (<14 W[5] with DFE), 0.25 W (off); Cutter: 34 W (working mode)
Requirements	Printer: input voltage (auto ranging) 200-240 V (±10%) two wires and PE; 50/60 Hz (±3 Hz); two power cords; 5 A max printer power cord; 12 A max curing power cord; Cutter: 100-240 V (±10%) two wires and PE; 50/60 Hz (±3 Hz); 2 A

Certification	
Safety	IEC 62368-1 2nd and 3rd ed and IEC 60950-1+A1+A2 compliant;; USA and Canada (CSA listed); EU (LVD, EN 60950-1 and EN 62368-1 compliant); China (CCC)
Electromagnetic	Printer: 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); Cutter: Compliant with Class A requirements, including: USA (FCC rules), Canada (ICES), EU (EMC Directive), Australia and New Zealand (RCM), Japan (VCCI), Korea (KCC)
Environmental	Printer: ENERGY STAR®, RoHS (WEEE, EU, EAEU, China, Korea, India, Ukraine, Turkey), REACH, EPEAT, OSHA, CE marking compliant, UL GREENGUARD Gold, UL ECOLOGO; Cutter: WEEE, RoHS (EU), CE marking compliant, REACH
Warranty	One-year limited hardware warranty

Ordering information

Product	
171K7A	HP Latex 630 W Print and Cut Plus Solution

Accessories	
171K8A	HP Latex 630 Output Platen Protector Accessory
1UX44A	HP Latex Standard Blade Kit
1UX45A	HP Latex Specialty Blade Kit
21V10A	HP Latex 600/700/800 Series User Maintenance Kit
421S3A	HP Latex Substrate Saver Accessory
7HR19A	HP Latex Substrate Loading Accessory

Original HP printing supplies	
4UU93A	HP 836 White Latex Printhead
4UU94A	HP 836 Optimizer Latex Printhead
4UV29A	HP 832 1-liter White Latex Ink Cartridge
4UV75A	HP 832 1-liter Black Latex Ink Cartridge
4UV76A	HP 832 1-liter Cyan Latex Ink Cartridge
4UV77A	HP 832 1-liter Magenta Latex Ink Cartridge
4UV78A	HP 832 1-liter Yellow Latex Ink Cartridge
4UV79A	HP 832 1-liter Light Cyan Latex Ink Cartridge
4UV80A	HP 832 1-liter Light Magenta Latex Ink Cartridge
4UV81A	HP 832 1-liter Optimizer Latex Ink Cartridge
4UV82A	HP 832 1-liter Overcoat Latex Ink Cartridge
4UV83A	HP 832 Ink Mix Container
4UV95A	HP 836 Black/Cyan Latex Printhead
4UV96A	HP 836 Magenta/Yellow Latex Printhead
4UV97A	HP 836 Light Cyan/Light Magenta Latex Printhead
4UV98A	HP 836 Overcoat Latex Printhead
4UV99A	HP Latex Maintenance 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 Recycled[6] Removable Adhesive Fabric, 3-in Core (Latex/solvent): REACH compliant[7]
HP Recycled[8] Satin Canvas, 3-in Core (Latex/solvent): REACH compliant[7]
HP Premium Poster Paper: FSC® certified[9]
HP PVC-free[10] Wall Paper: UL **GREENGUARD** GOLD Certified[11], FSC® certified[9], meets AgBB criteria[12]
HP Permanent Gloss Adhesive Vinyl: REACH compliant[7]
HP Prime Gloss Air GP: REACH compliant[7]

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

Service and Support

U67G3E HP 2 year Plus Service Plan Hardware Support w/DMR
U67G4E HP 3 year Plus Service Plan Hardware Support w/DMR
U67G6E HP 5 year Plus Service Plan Hardware Support w/DMR
U67G7PE HP 1 year Post Warranty Plus Service Plan Hardware Support w/DMR
U67G8PE HP 2 year Post Warranty Plus Service Plan Hardware Support w/DMR

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. Print mode names may vary depending on the media or application.
[2] The color variation between printed jobs has been measured at 12 pass mode on vinyl media. 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 3 dE2000. Backlit substrates measured in transmission mode may yield different results.
[3] Automatic horizontal cutter is for use with thinner banners and canvas only. It is recommended to perform a test.
[4] Excluding Type 2 DFE (Digital Front End) as defined in Energy Star® Product Specification for Imaging Equipment version 3.1.
[5] Total power measured in sleep mode including the Digital Front End contained on the product.
[6] Product consists of PET fabric and coatings. With liner attached, 72% by weight of the product consists of recycled content. Base material fabric is made from 100% recycled resin.
[7] As of the date of this document, this product does not contain any of the chemicals on the EU's Candidate List for Authorization (otherwise known as Substances of Very High Concern) in concentrations exceeding 0.1%. To determine the status of SVHC in HP products, see the HP REACH Article 33 Declaration published at HP Printing Products and Consumable Supplies.
[8] 62% by weight of the product consists of recycled content. Base material fabric is made from 100% recycled resin. Certified according to Global Recycled Standard (GRS) Version 3.0, March 2017.
[9] Trademark license code FSC-C115319.
[10] Chemical analysis demonstrated elemental chlorine to be below 200 ppm. Presence of chlorine is attributed to residual chlorine used in the papermaking process, and not due to the presence of PVC.
[11] HP PVC-free Wall Paper printed with HP Latex Inks is UL GREENGUARD GOLD Certified. 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://ul.com/gg
[12] With HP Latex Inks, prints meet AgBB criteria for health-related evaluation of VOC emissions. See http://umweltbundesamt.de/en/topics/health/commissions-working-groups/committee-for-health-related-evaluation-of-building

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