HP SCITEX LX850 PRINTER

Expand your reach with stunning outdoor/indoor applications. High-quality prints are delivered at true production speed with a 126-in (3.2-m) printer that also offers multiple workflow features. Attract environmentally conscious customers.

EXPAND YOUR OUTDOOR/INDOOR APPLICATION VERSATILITY

- Choose from a wider range of media—self-adhesive vinyl, paper, wallpaper, PVC banner, film. Print direct to fabrics for indoor soft signage.[1] The printer's ink collector also allows you to print on unlined flag fabrics.

- Outstanding image quality with 6 colors, a wide color gamut, 4-pt text, and up to 1200 dpi resolution. Win new business with GREENGUARD Certified,[SM,2] FSC® certified HP PVC-free Wall Paper that also meets AgBB criteria,[3] and HP HDPE Reinforced Banner.

- Outdoor prints achieve display permanence up to three years unlaminated, up to five years laminated;[4] indoor prints up to five years unlaminated, up to ten years laminated.[5] Scratch, smudge, and water resistance is comparable to low-solvent inks.[4]

- Produce images worthy of building the best brands. See rich blacks and glossy results on self-adhesive vinyls and banners with new HP LX610 Latex Scitex Inks. Or instead, install HP 3M LX600 Specialty Latex Inks[6] to offer graphics with the 3M™ MCS™ Warranty.

SEE STUNNING IMAGE QUALITY AND HIGH PRODUCTIVITY

- Deliver stunning quality at production speed—see high-impact POP prints at up to 45 m²/hr and light boxes and indoor soft signage[1] at up to 27 m²/hr. Prints come out completely dry and ready for lamination or finishing.

- Dual-roll capability lets you print two 60-inch (1.52-m) rolls side-by-side and take advantage of the printer's full production speed. Roll-to-free fall and roll-to-collector capabilities let you start finishing while still printing the rest of the roll.

- Produce double-sided banners. The double-sided capability[6,7] uses the HP Optical Media Advance Sensor (OMAS) to control registration with minimal operator intervention. You can also save time—no need to rewind the roll between sides.

- Produce consistent colors with automatic color calibration using the embedded spectrophotometer. Reduce maintenance time—replace printheads without a service call, no daily manual cleaning needed. HP Scitex Print Care helps you maintain smooth operations.

DIFFERENTIATE, WIN NEW BUSINESS, ENABLE NEW PROFIT

- Consider the profit potential—you can reduce waste disposal and equipment costs. Water-based HP Latex Inks have no hazard warning labels, no HAPS,[8] and are non-flammable and non-combustible.[9] No special ventilation[10] or external dryer is required.

- Produce prints ideal for indoor areas where odor is a concern. Produce odorless[11] HP Latex Ink prints—a clear advantage over prints produced with low-solvent inks—and attract environmentally conscious customers.

- Print with HP Latex Inks on HP PVC-free Wall Paper and offer odorless indoor wall decorations that are GREENGUARD Children & Schools Certified[SM,2] and meet AgBB criteria for health-related evaluation of VOC emissions of indoor building products.[3]

- Offer new value and win new business. HP offers a range of recyclable media, including HP HDPE Reinforced Banner, and the HP media take-back program.[12] Choose from a range of PVC alternatives. Return and recycle HP LX610 Scitex Printheads.[13]

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INCREASE YOUR PRODUCTIVITY WITH MULTIPLE WORKFLOW FEATURES

Roll-to-free fall and roll-to-collector capabilities

• Roll-to-free fall and roll-to-collector capabilities let you start finishing while still printing the rest of the roll. Both workflows can be combined with dual-roll capability.

Roll-to-free fall

Dual roll-to-free fall

Roll-to-collector

Dual roll-to-collector

Dual-roll capability

• Dual-roll capability lets you print two 60-inch (1.52-m) rolls side-by-side and take advantage of the printer's full production speed.
• The innovative differential system accommodates rolls of varying widths and lengths, by automatically adjusting the tension between the two media rolls.
• A sturdy design enables unattended operation.

Double-sided capability[6,7]

• The double-sided capability allows you to print double-sided banners with minimal operator intervention. The HP Optical Media Advance Sensor (OMAS) controls registration automatically.
• You can also save time—no need to rewind the roll between sides.

INCREASE APPLICATION VERSATILITY WITH THE INK COLLECTOR

The printer's ink collector allows you to print on unlined flag fabrics.

HP LATEX PRINTING TECHNOLOGIES

HP Latex Inks are water-based inks that combine the best characteristics of low-solvent inks and water-based inks. You can obtain the outdoor durability and versatility on low-cost, uncoated papers that you would traditionally associate with low-solvent inks, together with the odorless prints,[11] low maintenance, and environmental advantages you get from water-based inks.

HP Latex Inks are completely cured inside the printer to form a durable film on the print medium. Prints come off dry so you can move right on to lamination, finishing, shipping, or display.

POINT OF PURCHASE POSTERS
Reduce costs without compromising quality

• Print on low-cost uncoated papers – With HP Latex Inks, you can print on uncoated papers, and reduce your media costs by up to 30%. Solvent printers require more expensive coated papers to achieve the same results.
• Achieve excellent image quality – Produce prints with high resolution up to 1200 dpi, wide gamut, and saturated colors suitable for both long- and short-distance viewing.

LIGHT BOXES
Deliver vibrant, saturated colors at high productivity

• Achieve excellent image quality – Produce high-resolution prints up to 1200 dpi, with dense, saturated colors that stand up to close inspection.
• Eliminate drying time – Prints are fully dried inside the printer, allowing you to deliver immediately. With water-based, solvent, or Lambda technologies, you need to leave prints to fully dry before packing or mounting.

SOFT SIGNAGE[1]
Complement your business without losing versatility

• Print on lower-cost uncoated fabrics[1] – With HP Latex Inks, you can print on uncoated fabrics with excellent image sharpness, and save up to 30% on substrate costs. Solvent printers require more expensive coated fabrics to achieve the same image quality results.
• Print direct to fabric – With HP Latex Inks, you can print directly onto the fabric in a simple, one-step process. Dye sublimation printing requires additional dye transfer equipment, transfer paper, and a more complex two-step process.

WALL COVERINGS
Discover a new market opportunity

• Create odorless prints[11] – Prints produced with HP Latex Inks are odorless, making them ideal for any location where odor is a concern. Great news for wall coverings and wall papers, which cover a large surface, and where any odor would be immediately noticeable.
• Print with HP Latex Inks on HP PVC-free Wall Paper and offer indoor wall decorations that are GREENGUARD Children & Schools Certified[SM(2] and meet AgBB criteria for health-related evaluation of VOC emissions of indoor building products.[3] This HP wall paper is also FSC® certified, signifying that this media supports the development of responsible forest management worldwide.

VEHICLE WRAPS AND GRAPHICS
Cut turnaround times, access high-value market segments

• You can laminate right after printing – There is no need to let prints dry after printing, so you can accept urgent-turnaround jobs that can command a premium price.
• Enjoy excellent flexibility and conformability – HP Latex Inks stretch with the vinyl during mounting without cracking.
• Benefit from performance warranties from HP,[14] 3M and Avery Graphics. Or use HP 3M, LX600 Specialty Latex Inks,[6] backed by the 3M™ MCS™ Warranty, and gain access to accounts who want the comprehensive protection provided by 3M.

OUTDOOR AND EVENT BANNERS
Differentiate your business

• Produce images worthy of building the best brands – See rich blacks and glossy results on self-adhesive vinyls and banners with HP LX610 Latex Scitex Inks. Outdoor prints achieve display permanence up to three years unlaminated, up to five years laminated.[4]
• Distinguish your business – Print with a combination of HP Latex Inks and PVC alternative substrates and offer a complete solution, designed with the environment in mind, to distinguish your business in a very competitive market. HP HDPE Reinforced Banner is a lightweight, recyclable[12] alternative to PVC scrim banner.

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TECHNICAL SPECIFICATIONS

Print	
Print modes	**For highly-saturated fabrics and backlits (250% ink density):** Production Plus (10-pass bidirectional) – 27 m²/hr (290 ft²/hr)
	For fabrics and backlits (150% ink density) and high-quality indoor (100% ink density): Production Plus (6-pass bidirectional) – 45 m²/hr (484 ft²/hr)
	For outdoor billboards (70% ink density): Billboard (2-pass unidirectional) – 88 m²/hr (947 ft²/hr)
	For drafts (50% ink density): Draft (1-pass unidirectional) – 177 m²/hr (1905 ft²/hr)
Print resolution	Up to 1200 x 1200 dpi
Technology	HP Latex Printing Technologies
Ink types	HP Latex Inks
Ink cartridge colors	Cyan, magenta, yellow, black, light cyan, light magenta
Ink drop	12 pl
Ink cartridge size	3 liter
Printheads	3 (cyan/black, yellow/magenta, light magenta/light cyan)
Nozzles	10,560 per printhead

Media	
Handling	Roll-to-free fall, roll-to-collector, roll-to-roll, dual-roll capability, ink collector for porous substrates, guided double-sided process
Types	Banners, self-adhesives, films, fabric (including flags without liner), paper, mesh, specialty
Size	Single roll: up to 3.2 m (126 in) wide; Dual roll: up to 2 x 1.52 m (60 in) wide
Weight	Single roll: up to 130 kg (286 lb); Dual roll: up to 2 x 60 kg (132 lb)
Roll diameter	Up to 25 cm (9.84 in) outside diameter
Thickness	Up to 0.8 mm (31.5 mil)

Connectivity	
Interfaces (standard)	Gigabit Ethernet (1000Base-T)

Dimensions (w x d x h)	
Printer	573 x 166 x 166 cm (226 x 65 x 65 in)
Shipping	586 x 173 x 216 cm (231 x 68 x 85 in)

Weight	
Printer	1118 kg (2464 lb)
Shipping	1900 kg (4189 lb)

What's in the box	
	HP Scitex LX850 Printer, HP LX610 printheads, 126-in spindles (x2), pneumatic gun, Original HP sample roll media, dual-roll spindles, HP webcam with USB cable, HP network switch, HP Scitex LX Printer Cleaning Kit, HP LX600 Scitex Maintenance Kit, maintenance & troubleshooting guide, ink collector kit, spare ink collector foams (x16), media edge holders (x4), documentation software, Ethernet cable, electrical configuration kit with fuses, Media Loading tool, Spindles supports (x2)

Environmental ranges	
Operating temperature	15 to 30° C (59 to 86° F)
Operating humidity	20 to 70% RH (non-condensing)

Power	
Printing	Three phase: 8 to 15 kW; single phase: 1 kW
Powersave	Three phase: 0 kW; single phase: 310 W
Off	0.1 W
Requirements	Three phase (line-to-line voltage): 200 to 220 VAC (+/- 10%), 50 A max; 380 to 415 VAC (-10% +6%), 30 A max; 50/60 Hz; single phase: 115 to 127 VAC (+/- 10%); 200 to 240 VAC (-10% +6%) (Japan 200 V); 50/60 Hz, 10 A max

Certification	
Safety	United States and Canada (CSA listed); EU (LVD and MD compliant, EN60950-1, 12100-1 and 60204-1); Russia (GOST)
Electromagnetic	Compliant with Class A requirements, including USA (FCC rules), Canada (DoC), EU (EMC Directive), Australia (ACMA), New Zealand (MoC)
Environmental	RoHS, WEEE, REACH

Warranty	
	One-year limited hardware warranty

ORDERING INFORMATION

Product	
CR774A	HP Scitex LX850 Printer
Accessories	
CK832A	HP Scitex LX Printer Cleaning Kit
CQ657A	HP 126-in Spindle
CX062A	HP 126-in Dual Roll Kit
CQ755A	HP Scitex Caldera RIP Software
CQ756A	HP Scitex Onyx RIP Software
Original HP printheads	
CN667A	HP LX610 Yellow/Magenta Scitex Printhead
CN668A	HP LX610 Cyan/Black Scitex Printhead
CN669A	HP LX610 Lt Magenta/Lt Cyan Scitex Printhead
Original HP ink cartridges	
CN670A	HP LX610 3-liter Cyan Latex Scitex Ink Cartridge
CN671A	HP LX610 3-liter Magenta Latex Scitex Ink Cartridge
CN672A	HP LX610 3-liter Yellow Latex Scitex Ink Cartridge
CN673A	HP LX610 3-liter Black Latex Scitex Ink Cartridge
CN674A	HP LX610 3-liter Light Cyan Latex Scitex Ink Cartridge
CN675A	HP LX610 3-liter Light Magenta Latex Scitex Ink Cartridge
Original HP maintenance supplies	
CC591A	HP LX600 Scitex Maintenance Kit

Primary applications	
	Banners, displays, double-sided banners, exhibition and event graphics, exterior signage, indoor posters, light boxes—film, murals, POP/POS, posters, textile, vehicle graphics.

Original HP printing materials	
Banners	HP HDPE Reinforced Banner (12); HP Durable Frontlit Scrim Banner
Self-adhesive materials	HP Air Release Adhesive Gloss Cast Vinyl; HP One-view Perforated Adhesive Window Vinyl; HP Permanent Gloss Adhesive Vinyl; HP Permanent Matte Adhesive Vinyl
Films	HP Backlit Polyester Film (12)
Fabrics	HP Heavy Textile Banner (12); HP Light Textile Display Banner (12)
Papers/photographic papers	HP PVC-free Wall Paper—FSC® certified, GREENGUARD Certified(SM)(12); HP White Satin Poster Paper (12); HP Photo-realistic Poster Paper (12); HP Blue Back Billboard Paper
Specialty	HP DuPont™ Tyvek® Banner (12); HP Satin Canvas

For more HP large-format printing materials and sizes please visit us online at:
www.hp.com/go/lfprinting/materials-supplies

[1] For best results, print textile applications on fabric that does not stretch. Performance may vary depending on media. Please consult your media supplier for compatibility details.
[2] HP PVC-free Wall Paper printed with HP Latex Inks is GREENGUARD Children & Schools Certified.(SM) See **www.greenguard.org.**
[3] HP PVC-free Wall Paper printed with HP Latex Inks meets AgBB criteria for health-related evaluation of VOC emissions of indoor building products. See **www.umweltbundesamt.de/produkte-e/bauprodukte/agbb.htm.**
[4] HP image permanence and scratch, smudge, and water resistance estimates by HP Image Permanence Lab on a range of media including HP printing materials. See **www.hp.com/go/supplies/printpermanence.**
[5] Interior in-window display ratings by HP Image Permanence Lab on a range of media including HP printing materials. See **www.hp.com/go/supplies/printpermanence.**
[6] With HP 3M LX600 Specialty Latex Inks installed, HP LX610 Latex Scitex Inks are no longer compatible with that printer and double-sided printing capability is no longer available.
[7] For best results use blockout banner media intended for double-sided printing.
[8] The inks were tested for Hazardous Air Pollutants per U.S. Environmental Protection Agency Method 311 (testing conducted in 2010) and none were detected. HAPs are air pollutants which are not covered by ambient air quality standards but which, as defined in the Clean Air Act, may present a threat of adverse human health effects or adverse environmental effects.
[9] HP water-based Latex Inks are not classified as flammable or combustible liquids under the USDOT or international transportation regulations. These materials have been tested per the Pensky-Martins Closed Cup method and the flash point is greater than 110° C.
[10] Special ventilation is not required to meet US OSHA requirements on occupational exposure to VOCs from HP Latex Inks. Special ventilation equipment installation is at the discretion of the customer—no specific HP recommendation is intended. Customers should consult state and local requirements and regulations.
[11] Some substrates may have inherent odor.
[12] HP Large-format Media take-back program availability varies. Some recyclable HP papers can be recycled through commonly available recycling programs. Recycling programs may not exist in your area. See **www.hp.com/recycle for details.**
[13] Visit **www.hp.com/recycle** to see how to participate and for HP Planet Partners program features and availability. Where this program is not available, and for other consumables not included in the program, consult the Material Safety Data Sheet (MSDS) available at **www.hp.com/go/ecodata** to determine appropriate disposal.
[14] Some warranty limitations apply, see the HP Product and Performance Warranty for HP Air Release Adhesive Gloss Cast Vinyl at **www.hp.com/go/HPMediaWarranties.**

TO LEARN MORE, VISIT WWW.HP.COM/GO/SCITEXLX850