

HP SitePrint

Robotic solution for autonomous layouts

We've combined our printing knowhow and robotics technology to revolutionize construction site layouts bringing breakthrough efficiency



Groundbreaking performance and productivity

- Improve layout productivity by as much as ten times.
- Autonomous printing with obstacle avoidance.
- Printed on-slab text helps deliver executions as per plan.

Accurate layouts

- Precise printing to complete every project accurately.
- Complex layouts spot-on, laying out intricate arcs and circumferences.
- Raise the bar of predictability, minimizing redos and with great rigour.

One easy solution to do it all

- Simple layout management with cloud-based tools.
- Easily print on different surfaces thanks to HP inks expertise.
- Compact design that fits in a portable case for effortless transport.



Technical specification

GENERAL		PRINTING		PRODUCTIVITY	
Description	HP SitePrint Robot	Ink cartridge	1 cartridge (400ml -13.5oz Ink System)	Printing speed	900m/h (2,953 ft/h)
Product	3F8P0A	Ink types	Solvent-based (Red, Blue and Black) Water-based (Cyan, Magenta and Black)	Navigation speed	1,440m/h (4,724 ft/h)
Power management	Exchangeable Lithium-Ion battery Two batteries last a whole working shift (8h)	Minimum printable width	0.07in (2mm)	Productivity	As much as 10x versus manual layout**
Application	Layout for building construction: interior partitions, concrete formwork, MEP Installation and parking.	Maximum printable width	2in (51mm)		
Materials	Porous surfaces: polished/rough concrete, tarmac and wood. Non-porous surfaces: terrazzo, vinyl and epoxy	Printable elements	Lines, Text, dashed-lines, curved lines, circumferences 28cm (11") minimum diameter.		
		Printhead to floor distance	3/4 in (19 mm)		
		Accuracy tolerance	+ - 1/8 in*		

ENVIRONMENTAL		DIMENSIONS		CONNECTIVITY	
Protection	IP4X/NEMA1	Dimensions	Printer only: 50.5 x 31.5 x 25.0 cm - 19.8 x 12.4 x 9.8 in With transportation case: 62 x 49 x 33 cm - 24.4 x 19.2 x 12.9 in	RTS Compatibility	Leica TS16, Leica iCon80, Trimble Ri, Topcon LN-150
Recommended operating temperature range	Solvent-based inks: From 15F to 105F (From -10°C to 40°C) Water-based inks: From 23F to 105F (From -5°C to 40°C)	Weight	Printer only: 9.1 kg - 20 lbs With transportation case: 19.5 kg - 42.9 lbs	Connectivity	Bluetooth, 4G, WiFi
Operating humidity	20%-80%				
Operating altitude	6560 ft (2,000 m)				
Maximum slope	5° (8.75%)				

* Accuracy tolerance of +/- 1/8in while operating with a 3" Total Station at a distance between 5m and 30m"

** Up to ten times the productivity' claim is based on data from pilot case studies where HP SitePrint was used - comparing the HP SitePrint performance either to the manual layout that was done before HP SitePrint was used on the same job or to the customer estimation on the time/resources needed based on experience with similar projects. Exact improvement factors will vary from project to project and can be influenced by multiple factors, such as the line density or the dimensions of the site.



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