

# Xaar 1201



## High print quality, highly versatile and easy to integrate

The Xaar 1201 is a Thin Film Piezo Silicon Micro Electrical Mechanical System (MEMS) technology printhead for printing wide-format graphics (WFG) and textiles with dye sublimation, eco-solvent or aqueous inks. It has 1280 nozzles arranged in 4 rows printing either 2 colours at 600 dpi or 4 colours at 300 dpi native resolution.

This is the perfect printhead for OEMs looking to design graphics printers for banners, signage and POS applications because it delivers a high quality of print combined with high productivity and is easy to integrate; therefore time-to-market is minimised.

Worldwide technical support is provided to all of Xaar's customers by our team of highly skilled Sales Engineers who deliver a professional and highly supportive service. Our Sales Engineers have extensive knowledge of inkjet and its application for the print sector. They also have considerable field experience. This means they are able to assist in the successful design, build, commissioning and post-installation support of all Xaar-based inkjet systems.

The Xaar 1201 gives OEMs an assured supply and reputable, quality printhead for the WFG and textiles markets. High print speed, high accuracy and reliability are achieved by the MEMS technology making the Xaar 1201 printhead suitable for either static or multi-pass scanning applications.



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## Best-in-class print quality

The new Xaar 1201 delivers a high print quality superior to other printheads in its class.

- 8 grey levels at 600 npi give an apparent resolution better than 1440 dpi
- Two printheads can be mounted inline to create an economical 4 colour printer delivering 600 npi native resolution per colour
- Alternatively with just four printheads, OEMs can design printers with 1200 npi by 1200 npi native resolution
- The small drop size of 2.5 pL delivers the best combination of throughput and print quality for a range of applications. Variable drop size allows small drops for ultra-close viewing and large drops for long distance viewing.

## Highly versatile

The new Xaar 1201 incorporates a number of features which make it an extremely versatile printhead for banners and Point of Sale (POS) applications.

- Capable of printing 1, 2 or 4 colours per printhead
- Can be configured to print 4 colours at 300 npi or 2 colours at 600 npi depending on the price-point and end user profile that OEMs wish to target
- Two pairs of interleaved rows means that OEMs have a choice of native resolution – the default resolution when running 4 colours is 300 npi. Running 2 colours per printhead takes advantage of the nozzle row pair pre-alignment to achieve 600 npi per colour
- The Xaar 1201 jets solvent-based or aqueous inks. This means that it can be used to print a range of substrates including photo paper, vinyl, canvas and textiles.

## Easy to integrate

The Xaar 1201 delivers simple integration for manufacturers looking for a flexible yet affordable printhead for a low cost wide-format graphics or textiles printer.

- Electrical interfacing via a top mounted flexible flat cable ensures easy and accessible connection when mounted into a scanning printer. This gives better protection against ink ingress and possible damage compared with similar printheads
- Luer lockable ink fittings and lockable electrical connections enable an easy, accurate and secure printhead installation, preventing mechanical and electrical damage, and ink spillage
- A gravity-fed ink system makes ink supply design simple and straightforward, reducing time-to-market
- A single printhead can serve a complete 4 colour (CMYK) printer which makes it incredibly easy to integrate mechanically, electrically and fluidically
- Alignment datum ensures easy multiple printhead alignment.

Physical attributes	Xaar 1201
Active nozzles	1280
Print swathe width	27 mm
Number of rows	4
Colours	1, 2 or 4
Nozzle pitch (interleaved)	42.3 µm
Drop velocity	7 m/s
Nozzle density (NPI)	600 npi
Printhead weight (dry)	95 g
Ink type	Aqueous, eco-solvent, UV
Drop volume	2.5 pL
Number of grey levels	4 or 8
Maximum firing frequency	50 kHz
Dimensions (WxDxH)	52.7 x 45 x 76.2 mm



## Approved inks

Xaar actively partners with a wide range of ink manufacturers to develop high-quality ink solutions for its printheads. The Xaar 1201 is designed to be compatible with a range of eco-solvent, dye sublimation, aqueous and UV inks.



**XAAR**<sup>®</sup>

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