XAAR Irix

Print with confidence

Powered by ImagineX, the Xaar Irix delivers exceptional print quality, is simple to use as well as being a robust, and highly reliable printhead, meaning you can print with confidence.

Print accurately

Produce excellent print quality thanks to the highly accurate drop placement and drop uniformity of the Xaar Irix, even at long print distances:

– Nozzles are individually lasered and optimised for drop placement using Xaar's latest manufacturing techniques

– Xaar's AcuDrp Technology calibrates each nozzle for drop volume and velocity, giving uniform print quality across each and every printhead

– Drive signal tuned for optimal performance, regardless of fluid type.

Print reliably

Print every drop of every image reliably, the first time and every time, giving you more production uptime, even in harsh environments.

– Enhanced factory calibration for more consistent printing across different images and fluids, makes a wider operating window possible

– Highly accurate drop placement enables printing at longer print distances, reducing the likelihood of media clashes

– Simple and robust architecture for instant priming and reliable printing in vertical, horizontal or skyscraper modes.
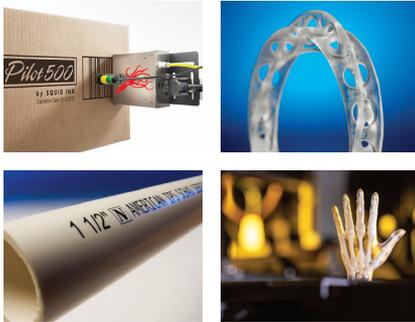
Print easily

Get printing with ease with the Xaar Irix which offers a fast and cost-effective route to market for anyone wishing to move into inkjet technology.

– Long-life, low-cost, non-disposable printhead, reducing the environmental impact of manufacturing, while minimising the need for replacement units and service visits

– Compact and lightweight, with a 17mm print width and a mass of just under 16g, the Xaar Irix is a popular choice for a wide variety of print engine configurations

– Simple fluid and electrical connections for easy integration, fast start up and straightforward maintenance.

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Applications
Coding and marking
Functional fluids
Graphics
Product printing
3D printing

Xaar Irix Core
For print applications using oil or solvent-based inks, such as Coding & Marking and Functional Fluids.

Xaar Irix Pro
For more demanding applications where print quality is paramount, such as Product Printing and 3D Printing.

Product configurator

	Xaar Irix Core		Xaar Irix Pro	
Features				
Nozzle optimisation	•		•	
Xaar AcuChp	•		•	
Xaar AcuDrp			•	
Optional extra				
Product customisation			•	
Ink compatibility				
Oil based	•		•	
Solvent based	•		•	
Physical				
Active nozzles	128		128	
Nozzle density (NPI)	185		185	
Print swathe (mm)	17		17	
Dimensions (mm)	37.2 x 11.3 x 40.8		37.2 x 11.3 x 40.8	
Mass (g)	15.5		15.5	
Performance				
Colour of insulator	Light grey	Purple	Light grey	Purple
Drop size (pL)	40	80	40	80
Drop velocity (m/s)	6	5	6	5
Max frequency (kHz)	8.3	5.5	8.3	5.5
Liner speed (m/s @ 180 DPI)	1.17	0.78	1.17	0.78
Print distance (mm)	<5	<5	<10	<10
Dot accuracy				
Max angular deviation (degrees)	1.0	1.8	0.7	1
Print uniformity				
Drop velocity variation 3σ (m/s)	+/- 0.50	+/- 0.50	+/- 0.10	+/- 0.10

Approved inks
Compatible with an extensive range of oil and solvent-based inks, offering a high degree of choice to the user.

We can supply a range of inks that have been approved for use with the Xaar Irix.

XAAR