

Xaar 760



XAAR TECHNOLOGY

Xaar is a world leader in the development and manufacture of piezoelectric drop-on-demand inkjet technologies. Its patented shear mode, shared wall technology incorporates low power modulation and unique acoustic waveforms to deliver exceptionally low levels of internal mechanical stress, resulting in an unsurpassed consistency of quality, reliability and printhead life.

APPLICATIONS

The Xaar 760 provides the ultimate in versatility, capable of operating in greyscale or binary mode, with a diverse range of fluids. The Xaar 760 is the first choice for applications such as indoor graphics, primary and secondary packaging and a wide range of industrial applications.

INKS AND FLUIDS

Xaar 760 is optimised to work with an extensive range of solvent, UV and oil-based inks for the graphics markets. Xaar 760 leads the way in the industrial sectors with optimised output of metallic fluids, light emitting polymers, polyimide and bioactive fluids.



XAAR[®]

A PRINthead THAT TAKES YOU TO THE NEXT LEVEL

The multi-option Xaar 760 provides the optimum in flexibility, quality, reliability and speed. Based on Xaar's unique patented multi-pulse greyscale technology Xaar 760 is user-definable and delivers a choice of binary or dynamic variable drop sizes, ranging from 8pl to 40pl. Each of the 760 nozzles are controlled independently to create a printed result with exceptionally smooth gradation and tonal range – ideal for high quality graphics, packaging and traditional print applications.

The Xaar 760 has an unparalleled performance specification, with high drop accuracy and exceptional dot size control, enabling high resolution digital printing at industrial speeds. Available either as a base head or fully integrated print unit.



SCALABLE AND MODULAR

Scalable and easy to use, the Xaar 760 Base Head enables the developer to integrate their own electronics and software to optimise printhead performance for their bespoke application.

The Xaar 760 Print Unit incorporates intelligent Xaar-designed electronics and software, ensuring optimum printhead performance in addition to ease and speed of integration.

The open modularity of the Xaar 760 enables developers to choose a complete Xaar solution, or to incorporate their own print controller, ink supply system, printhead electronics and software.

UNRIVALLED FLEXIBILITY

The Xaar 760 is the ultimate in versatility with a range of variable drop size options, user-definable dpi resolutions and selectable linear speeds. Developers are given the ultimate in flexibility to customise performance to suit their chosen application.

A COMPLETE INTEGRATED SOLUTION

Integration couldn't be easier with the Xaar 760, optimised to work with Xaar's state-of-the-art XUSB Drive Electronics unit and the innovative ink supply system, to provide a complete and integrated scalable solution. Delivering significant benefits to a developer in reducing development resources and costs thus enabling developers to bring to market state-of-the-art systems in shorter timescales.

APPLICATIONS

It's the pure versatility of the Xaar 760 that makes it suitable for a wide range of applications. Variable resolution and high print quality are just some of the reasons why the Xaar 760 is first choice for printing applications in outdoor and indoor wide-format graphics, textile printing and packaging.

With its unique thermal management system Xaar 760 meets the extreme demands of the emerging industrial markets. Ensuring fluids are controlled at consistent functional temperature is a key requirement for depositing functional fluids in electronics, biocare and pharmaceutical applications.

Physical Attributes	GS8	Unit
Active nozzles	764	—
Print swathe width	53.8	mm
Nozzle pitch	70.6	µm
Nozzle density (nozzles per inch)	360	npi
Drop velocity *	6.0	m/s
Printhead weight (dry)	380PU 130BH	g
Dimensions (WxDxH) Print Unit	86.0x42.4x164.8	mm
Dimensions (WxDxH) Base Head	86.0x33.3x63.5	mm
Ink type	Approved range **	—
Binary mode		
Drop volume *	8	pl
Typical firing frequency *	40	kHz
Greyscale mode		
Number of grey levels	6	—
Sub drop volume *	8	pl
Max. drop volume *	40	pl
Typical firing frequency *	7.8	kHz

* Dependent on ink used and system integration.

** A wide range of approved fluids are available.



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