

INDUSTRY LEADER

Xaar *Electron*



XAAR TECHNOLOGY

Xaar is a world leader in the development and manufacture of piezoelectric drop-on-demand inkjet technologies. Utilising the very latest silicon integrated circuit technology to drive its patented shear mode shared wall technology the Xaar *Electron* achieves print speeds up to 70% faster than previous generation small format printheads. With the high native resolution provided by this architecture (185dpi) the result is high nozzle density. This enables compact, light-weight printhead carriage design resulting in very productive multi-pass printing..

APPLICATIONS

The Xaar *Electron* has been designed to produce excellent print quality at the highest speeds for the indoor and outdoor graphics market. With the new on-board programmable waveform there is the option to address the growing UV market as well as the existing solvent market.

INKS AND FLUIDS

Xaar actively partners with a range of ink manufacturers to develop high quality ink solutions for its printheads. The Xaar *Electron* is constructed to be compatible with a range of solvent-based and UV-cure inks.

- Fastest, high-native-resolution printhead for the indoor & outdoor graphics market
- Increase printing speeds by up to 70%
- Maximise the output of existing wide-format printer frames.

The Xaar *Electron* is a high-speed, high-native-resolution printhead with a small 128-channel form factor. This makes it a great combination of highest productivity with lowest replacement cost.

Using the latest silicon integrated circuit technology the Xaar *Electron* is designed and built to deliver next generation print performance enabling you to print faster than ever.

With the familiar form factor, connections and interfaces existing printer manufacturers and end-users will find this printhead easy to integrate and use, reducing set up times and ensuring maximum return on investment.



XAAR[®]

XAAR'S ENABLING TECHNOLOGY

OEM's can take advantage of the features within the Xaar **Electron** to enable fast time-to-market with minimal development costs. The familiar form factor – being light-weight and compact - and the simple connections of this printhead make it readily integrated into existing printer frames. In addition the on-board electronics are easy to drive with readily available electronics and offer many features within the printhead itself instead of the OEM having to develop their own.

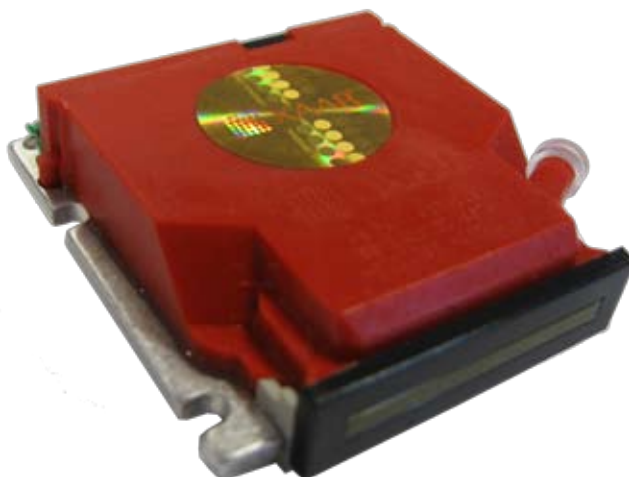
Other features include:

- **Simple fluid path** - enables fast and reliable filling ensuring the printhead is always primed and ready for operation
- **In-line filter** - which protects the printhead thereby extending its working life
- **On-board Temperature Compensation** – for optimum jetting performance in a wide range of operating conditions
- **Scalable** - compact design delivers lowest replacement printhead cost.

Overall the Xaar **Electron** offers a simple, easy enhancement path for wide and grand-format printer manufacturers who want the best combination of print performance and high speed.

Physical Attributes	Xaar Electron 70-W	Unit
Colour of insulator		—
Nozzle plate type	Wetting	—
Active nozzles	128	—
Print swathe width	17.4	mm
Nozzle pitch	137.3	μm
Nozzle density (nozzles per inch)	185	npi
Drop velocity *	5	m/s
Printhead weight (dry)	15.5	g
Dimensions (WxDxH)	37.2x40.8x11.3	mm
Ink type	Solvent	—
Binary		
Drop volume *	70	pl
Typical firing frequency *	6.5	kHz

* Dependent on ink used and system integration.



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