

# Xennia Sapphire

## Large area scanning product decoration printer

The Xennia Sapphire scanning XY inkjet printer is designed for large area multi-colour printing onto flat substrates, providing a compelling solution for digital customisation and personalisation of a range of products.

### Ideal for product decoration and graphics

The Xennia Sapphire can accommodate up to six colours and is available with three different print areas, giving ultimate flexibility and performance. Fast single pass printing gives excellent print throughput, making the Sapphire the ideal development, sampling and batch production tool for a wide range of specialist product decoration and graphics applications.

### Integrated printing system with flexible options

The Xennia Sapphire is supplied as a self-contained unit comprising integrated electronics/ink system cabinet, XYZ motion stage, printhead module, recirculating fluid control systems, control electronics and PC. Options include a turntable product load/unload station, UV curing stations, vacuum substrate table and alignment camera system.

### Accurate printing and fast substrate handling

The motion stage uses high accuracy servo motors for the XY motion and includes a programmable stepper motor Z axis for easy print height adjustment. When combined with the optional integrated vacuum table and alignment camera, the Sapphire gives the ultimate in precise substrate handling and print positioning. The optional turntable product load/unload station gives fast job turnaround making the Sapphire ideal in a batch production environment.

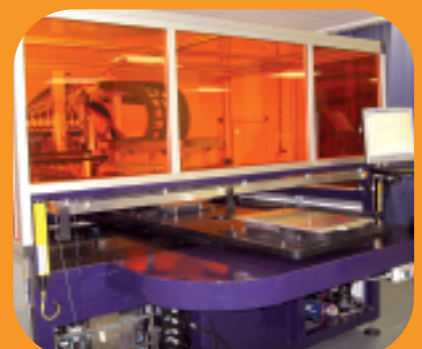
### Intuitive printing and real-time customisation

Powerful integrated XenJet print software allows users to prepare print jobs and print images simply using an intuitive interface. Variable data and images can be supported to allow full colour real-time customisation down to a batch size of one, including full support for 1D and 2D barcodes.

### Maximum performance with UV cure inks

The Xennia Sapphire is recommended for use with Xennia's high performance XenInx Diamond UV cure inks and can be supplied with an integrated scanning UV lamp for in-line curing of the printed image. Using Diamond, the printer delivers excellent print quality with good adhesion and durability on a wide range of non-porous substrates. These inks offer high levels of chemical and abrasion resistance and UV light fastness. Xennia also offers the facility to develop customised inks to meet specific application or substrate requirements.

- ◆ Product decoration
- ◆ Glass & ceramics decoration
- ◆ Textiles & laminates



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## Specifications

Ink type	UV, solvent/oil or aqueous fluids, including advanced pigmented inks XenInx Diamond UV cure CMYK ink recommended
Printheads	Industrial piezo recirculating
Printable area (XY)	Up to 700 mm x 700 mm (27.6 in x 27.6 in) Up to 700 mm x 1400 mm (27.6 in x 55.1 in) Up to 1500 mm x 2600 mm (59.1 in x 102.4 in) Up to 2600 mm x 4000 mm (102.4 in x 157.5 in)
Print resolution	360 dpi/8 level greyscale (apparent resolution over 1000 dpi)
Motion system resolution	1 µm (XY)
Motion system repeatability	±10 µm (XY)
Throughput	Up to 110 m <sup>2</sup> /hr (1150 ft <sup>2</sup> /hr)
XY positioning	High accuracy servo motors
Z positioning	Braked stepper motor with 100 mm (3.9 in) travel
Colour capability	Up to six colours
Fluid control	Recirculating with temperature control
Printhead maintenance	Manual purge and wipe
Software	XenJet print software with integrated user interface Variable data capability available as an option
Dimensions (WxDxH)	2.3 m x 1.6 m x 1.8 m (92 in x 63 in x 71 in) (approx. for 700 x 700 version)
Power supply	415 VAC, 50 Hz three phase (or 120 VAC, 60 Hz single phase)
Optional accessories	Integrated scanning UV lamp Integrated turntable load/unload station Integrated vacuum stage Variable data capability Alignment camera system

Subject to technical modification without notice



Xennia Technology Ltd

Monroe House • Works Road • Letchworth • Hertfordshire SG6 1LN • UK  
telephone: +44 (0) 1462 705220 • facsimile: +44 (0) 1462 705221 • email: enquiries@xennia.com

[www.xennia.com](http://www.xennia.com)

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