



## Inca Digital Spyder 320 Flatbed UV Inkjet Printer from Fujifilm Sericol

Several factors influence the profitability of jobs produced on flatbed UV inkjet printers. To make money, graphics producers must be able to use their flatbeds to satisfy customer demands for detailed full-color graphics and efficient turnaround. The machines also must be able to print on a wide array of rigid and flexible substrates and accommodate run lengths that are too small to print on multicolor inline screen presses. Finally, the output of a flatbed inkjet must be both precise and repeatable, which means that substrates can be loaded into the right position for printing every time and that they remain in this position throughout the printing process.

Substrate waste resulting from materials that are improperly positioned for printing can steal from a shop's bottom line, especially with expensive materials, such as wood, coated metal, glass, and other exotic substrates. If the job involves only a few pieces, substrate waste also can end up causing serious delays as shops wait for replacement material to arrive.

The positional accuracy of substrates is among the concerns that Inca Digital sought to address with its new Spyder 320 flatbed UV inkjet printer. Distributed by Fujifilm Sericol, the

Spyder 320 uses Spectra piezo print-heads with four heads per color to jet Fujifilm Sericol's four-color (CMYK) Uvijet inks directly onto rigid substrates, as well as sheets of flexible media. Compatible materials include ABS, acrylic, coated metal, corrugated materials, fluted polypropylene, polycarbonate, paper, glass, polyester, PVC, wood, and more.

Inca Digital says the printer is ideal for producing graphics that are viewed up close, such as those installed in vending machines and gaming systems. P-O-P displays, trade-show graphics, backlit displays, indoor and outdoor signage, **lenticular** images, and building coverings are some of the other applications for which the Spyder 320 is suited.

The Spyder 320 can print edge to edge on materials with dimensions from 5.8 x 8.2 in. (148 x 210 mm) up to 126 x 63 in. (3200 x 1600 mm), and in thicknesses up to 1.2 in. (30 mm). It provides print resolutions up to 720 x 1000 dpi and a top print speed of 538 sq ft/hr (50 sq m/hr).

Fujifilm Sericol developed a set of Uvijet inks specifically for the Spyder 320 and formulated the ink system to cure instantly, resist damage from chemicals and abrasion, offer adhesion to a wide-range of substrates, and stay

vibrant throughout the life of the graphic. Uvijet inks use automotive-grade pigments and feature Micro-V dispersion, a production process in which pigments are ground to a finer particle size in order to maximize loading in each print and enhance printability. The inks are available in 5-liter containers. Additional colors are available as an option. Users can order the inkjet with a six-color inkset (CMYK+LcLm) or add white to the existing CMYK configuration.

The Spyder 320 is a manually loaded system with a shuttling print bed. The system's printhead jets the image in a unidirectional manner as it moves perpendicular to the shuttling bed. To ensure precise movement, the bed is driven by a combination of linear motors and vibration-free air bearings to ensure smooth, rapid, and accurate print positioning. In addition to controlled movement, the printer incorporates a pin-registration system in the press bed that helps streamline material placement and guarantee that substrates are in the proper location for printing. This makes the device well suited for high-tolerance work, such as printing double-sided displays and lenticular graphics.

A Spyder 320's touchscreen control panel lets users control all aspects of the printer's operation, including print-job selection based on specific materials and image positioning. The printer is driven by a Wasatch RIP and can be interfaced with Mac- and PC-based applications. It requires a 100-baseT network for connectivity.

The Spyder 320's overall footprint is 10 x 16 ft (3 x 5 m). For more information, contact Fujifilm Sericol USA Inc., 1101 W. Cambridge Dr., Kansas City, KS 66103, 913-342-4060, 800-255-4562, fax: 913-342-4761, e-mail: edsayers@fujifilmsericol.com, Web: www.fujifilmsericol.com.