

SCREEN

Truepress Jet 650 UV

UV inkjet printing system for industrial use



Creating a Future in Print

The Truepress Jet650 is an industrial UV inkjet printing system that combines Screen's famed image processing and printing technology with the latest inkjet printing technology. This remarkable new system offers both high output quality and high productivity, thanks to its use of a multiple printhead array, the only example of this technology in its class. The Truepress Jet650 supports a maximum resolution of 2,400 x 2,400 dpi (option) and offers productivity of up to 45 sheets per hour* (for 450 x 600 mm polycarbonate sheets). It can also handle media up to 50 mm thick, and can print directly onto a wide variety of media with its original UV inks.

Providing all the advantages of UV inkjet printing, including superior ink adhesion with a variety of media, fast drying, environmentally friendly operation, and high-quality plateless reproduction of multi-level gradations, the Truepress Jet650 UV makes it easy to produce small lots of variable materials faster, and opens up a world of possibilities.

* When printing in 600 dpi high-speed mode.



Industrial materials

Applications for the Truepress Jet650UV in the industrial materials field, in which precision, visual confirmation, and durability are so crucial, include the production of audiovisual and IT equipment, operation panels for industrial and other equipment, cellular phones and remote controls, gauges and meters, text on printed circuit boards, and more.



Packaging

The Truepress Jet650UV is perfect for small-lot production of packaging for limited-run products and novelties, as well as for the creation of dummies before mass production. It can be used on film and flexible packaging materials, as well as paper and cardboard.



Tried-and-true printing technology and inkjet technology combined. The possibilities are endless!

World's best productivity

The Truepress Jet650UV's use of a linear motor drive enables a maximum productivity of 45 sheets per hour* (for 450 x 600 mm polycarbonate sheets). The combination of the linear motor drive, the unique multiple printhead array (up to 32 printheads can be installed), and the high-powered UV light source results in the highest productivity in the world for an industrial printing system.

* When printing in 600 dpi high-speed mode.

Dependable, consistent output

The Truepress Jet650UV features a variety of printhead quality maintenance functions, including a nozzle misfire check function and non-contact wiping, which ensure optimal printing conditions are maintained at all times. The Truepress Jet650UV also has a function that prevents the heat of the UV light source from distorting resin-type media, which helps ensure consistent production and high reliability. Screen has spent years perfecting its printing technology, which is combined with inkjet technology in this remarkable output system. The applications and possibilities for the Truepress Jet650UV are endless.

High-precision, high-quality imaging

With a maximum output resolution of 2,400 x 2,400 dpi and grayscale piezo drop on demand (DOD) inkjet heads, the Truepress Jet650 UV can create high-precision output of a quality that rivals that of offset printing. It also features newly developed, original screening technology that makes it possible to output vibrant, high-precision gradations at a level that has been almost impossible to achieve in the past.

Superior printing precision improves overprinting quality

The Truepress Jet650UV features automatic alignment and θ adjustment (microscopic angle adjustment) of the printing table. This helps ensure superior printing precision when printing on both sides of transparent media or using overprinting, as well as during printing onto media up to 50 mm thick.

Print onto a wide variety of media with Truepress ink

Screen's original Truepress ink offers all the advantages of UV-cured inks for printing onto a variety of media, including polycarbonate, ABS, acrylics, PVC, PET, and more. Truepress ink is highly stretchable and offers superior ink adhesion, which makes it suitable for use in instrument panels, home electronics operation panels, and items created in pressure forming equipment.

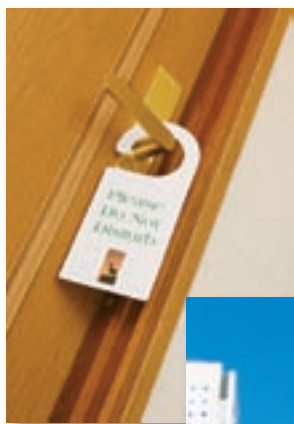
Hard ink (option) **NEW**

For cards and other rigid materials where printing surface durability is essential, Screen now offers hard ink. Hard ink for the Truepress Jet650UV comes in Y, M, C, Bk, W, and clear, as well as Lc and Lm, for a total of eight colors enabling extremely smooth color reproduction.

*Lc and Lm can be turned on and off, so users can control operation costs.

Sign/Display printing

The Truepress Jet650UV is also an excellent system for the sign/display field, in which there are so many different types of design, materials, and post-processing. The unique UV inks that Screen has developed are highly light- and weather-resistant, so they resist fading.



Cards and tags

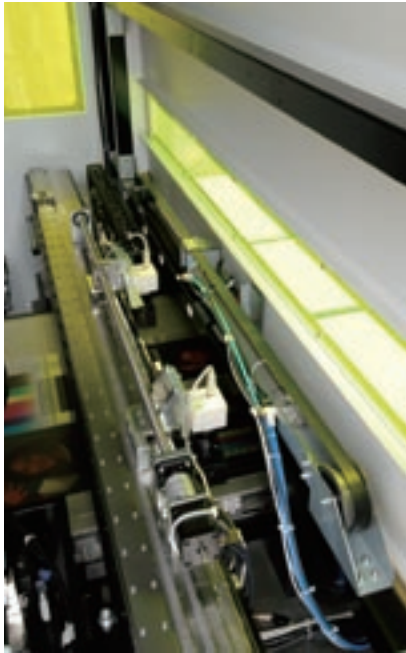
The Truepress Jet650UV can be used to create colorful designs and vivid reproductions of photographs, such as those seen in employee cards, security passes, membership cards, and parking passes.



Souvenirs and interior products

The Truepress Jet650UV is perfect for the production of souvenirs of a particular region, original products for household interiors, and other small-production, highly unique products.





θ adjustment (microscopic angle adjustment) for the printing media

Minute offsets and distortions in the media are automatically corrected through θ adjustment (microscopic angle adjustment) of the printing table, to ensure high precision.

Functions that support better printhead output quality

Nozzle clogs and soiling of the inkjet printheads have generally been viewed as major, but unavoidable, problems with inkjet printing mechanisms. The Truepress Jet650UV prevents these problems through a variety of head quality maintenance functions, including a nozzle misfire check function and non-contact wiping. These functions make it possible to maintain optimal printing conditions at all times.

Auto alignment

The Truepress Jet650UV features a dedicated CCD camera that detects registration marks on printing media and automatically adjusts the alignment to ensure consistent registration accuracy.

Truepress Jet650UV specifications

Name	Truepress Jet650UV	
Type	UV Inkjet printing system	
Output size	Maximum 644 x 594 mm (25.3" x 23.3")	
Media size	Maximum 650 x 600 mm (25.5" x 23.6")	
Media thickness*1	Maximum media thickness 50 mm (1.96")	
Media setup	Positioning using adjustable height pins, vacuum attachment	
Output resolutions	600 dpi, 1,200 dpi, 2,400 dpi (2,400 dpi is a separate option)	
Head	Gray scale head, color module type (up to 8 modules and 32 heads)	
Inks*4	Original flexible UV ink and hard UV ink	
Printing speed	Maximum: 45 sheets/hour (when printing 450 x 600 mm polycarbonate sheets in 600 dpi high-speed mode)	
	When printing once (no overprinting) onto 450 x 650 mm media	1 minute and 20 seconds (in 600 dpi high-speed mode*2)
		2 minutes and 20 seconds (in 600 dpi standard mode*3)
		2 minutes flat (in 1,200 dpi high-speed mode)
		3 minutes and 40 seconds (in 1,200 dpi standard mode)
4 minutes and 15 seconds (in 1,200 dpi high-quality mode*3)		
Ink tank capacity	Ink: 700 cc/module; Flushing solution: 1,000 cc	
RIP	Screen RIP	
Dimensions	2,000 x 3,840 x 2,360 mm (78.8" x 151.2" x 93.0") (W x D x H) Note: Main unit only (does not include temperature control unit, ink tanks, or blower unit)	
Weight	2,200 kg/4,840 lb (main unit only)	
Power source	Main unit: Single phase 200 to 240 V, 50/60 Hz, 18 A (including temperature controller) Chiller: Single phase 200/208/220/230/240 V, 50/60 Hz, 8 A UV exposure system: Three phase 200 to 240 V, 60 Hz, 32 A/380 to 415 V, 50 Hz, 18 A Controller PC: Single phase 100 to 240 V, 50/60 Hz, 1.4 A	
Options	White ink option (flexible ink/hard ink), clear ink option (flexible ink/hard ink), Lc/Lm ink (hard ink), additional color modules, etc.	
Factory options	Front/Back registration camera, nozzle clogging monitoring function, UV monitor	

*1 An ink mist removal unit, which is particularly useful when printing onto thick materials, comes standard with the Truepress Jet650UV.

*2 Please consult your Screen representative if you wish to use overprinting two or more times in 600 dpi high-speed mode.

*3 When using white ink in 600 dpi standard mode or 1,200 dpi high-quality mode, please set the printing speed to 90%.

*4 Please consult your Screen representative regarding ink import regulations, which may vary by country.

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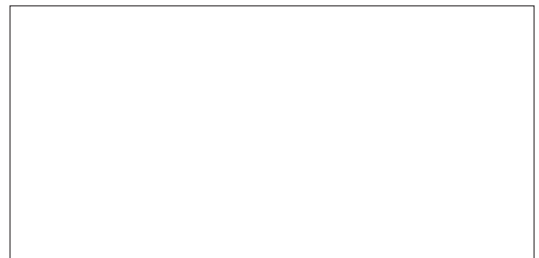
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