

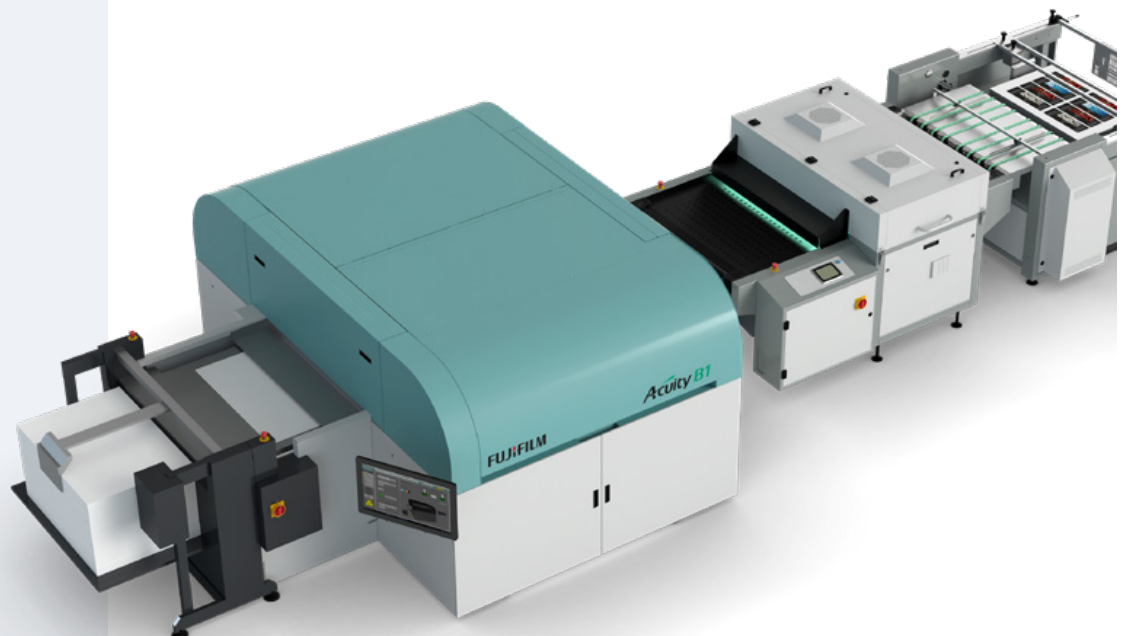
## Acuity B1: Overview

# Versatile B1 format inkjet system with full automation

Combining full automation, near-photographic image quality and the perfect format size for hundreds of applications, Acuity B1 represents an exciting and unique innovation in digital print. Featuring Fujifilm UV inkjet technology, the quality rivals offset. Print on plastics up to 10 mm thick, plus a wide range of coated and uncoated materials.

### Key features

- ▶ Fujifilm Dimatix QFR7 printheads
- ▶ Hybrid UV curing system
- ▶ Full automation
- ▶ Zoned vacuum table
- ▶ Print on up to 10 mm thick rigid material
- ▶ Up to 200 sheets per hour
- ▶ Full-width print array
- ▶ 4- or 8-channel colour configuration
- ▶ Powerful and intuitive graphical user interface



**Acuity B1**



## Digital flatbed printing reimaged

### Full 'pallet-to-pallet' automation makes production more efficient

Featuring full automation and a 'pallet-to-pallet' linear architecture, Acuity B1 makes production simpler and can reduce the amount of labour you need on your printroom floor. Operating the Acuity B1 is simple and straightforward; an intuitive and easy-to-use interface means less printroom stress.

### Digital convenience – no compromise on quality

Providing the benefits of digital with outstanding quality, Acuity B1 can enhance your printroom production with zero compromise on quality. Print up to 200 B1 format sheets per hour and switch between jobs swiftly. Produce print that doesn't need lamination or varnishing. Finish or ship sheets immediately, because they come off the press completely cured. And deliver excellent print quality to demanding customers with an eye for detail.

### Fits seamlessly into existing workflows

For those who already use the B1 format size, Acuity B1 will fit seamlessly into existing workflows – including pre- and post-coating equipment and paper handling – whilst revolutionising production capability. The B1 media size is a familiar format size for many analogue screen and conventional offset operators, which makes printroom transition to a high-powered digital system, easier.

### Print a massive range of profit-making applications

With the ability to print on a wide range of flexible and rigid materials up to 10 mm thick, including plastics, Acuity B1 opens the door to a wide range of applications – including eye-catching point of sale materials such as shelf wobblers, merchandising strips, shelf-talkers, counter displays, promotional items such as counter mats, decals and product tags, plus much more. LED UV pinning technology provides a choice of print finishes – from satin to gloss – which means with Acuity B1 you can offer your customers the same finishes as you would with screen or offset processes.

### Cost-effective high-quality short runs

Because it's inkjet, Acuity B1 eliminates the pre-press and setup costs of offset and screen. This is especially convenient when working with thicker materials such as plastic. Short runs become much more cost effective, and you could win more work by offering high-quality samples and one-offs.

# High-quality UV inkjet driven by Fujifilm technology

## UV hybrid curing system

The Acuity B1 design provides a unique hybrid system with LED UV pinning and UV cure. Together with Uvijet KX, this allows for more accurate control of the UV intensity than other systems. This gives you better control over the appearance of your print and a very powerful tool to determine your final print finish.

## Uvijet ink technology

Fujifilm Uvijet ink systems are renowned in the industry through Fujifilm's high productivity wide format printers. Uvijet produces a low-build ink film with excellent coverage and adhesion, high-density vibrant backlights and a durable finish.

## Direct-to-media UV flatbed inkjet printing

Driven by world-renowned Fujifilm inkjet technology, and offering all the benefits of flatbed printing with full automation, Acuity B1 can print directly at very high quality on a wide range of media, including plastics.

## UV cured – immediately dry

Ink is immediately cured after a two-step hybrid curing process, which means printed items are ready for shipping or further processing as soon as they come off the press. This helps keep your productivity as high as possible.

## Full-width print array

A full-width print array spans the whole width of the print bed, ensuring excellent productivity, outstanding quality print and less textural banding.

## Excellent print quality

Market-leading Fujifilm Dimatix QFR7, 7pl native drop size and low film weight ensure very high quality that truly rivals offset.

## Long printhead service life

The Acuity B1 cooled LED lamp assembly either side of the printhead carriage eliminates stray UV around printheads maximising printhead life and maintaining image quality.

## Nozzle mapping

An intelligent nozzle mapping system maintains print quality and mitigates defects even if printhead nozzles are missing or deviating.

## Optical alignment system

The Acuity B1 boasts a registration accuracy of +/- 0.1mm, thanks to the integral optical alignment system.

## CMYK colour configuration

Choose from a 4- or 8-channel CMYK colour configuration to meet your productivity needs.

## Zoned vacuum table

An innovative zoned vacuum table system detects sheet size and internally closes unused holes to ensure maximum vacuum is only applied where needed. This means no masking is required, making setup and job changeover quicker and easier.

## Prints on thick media

Because Acuity B1 prints a wide range of flexible and rigid media up to 10 mm, you can offer more applications than you do today.

## Economic cost-in-use

Low ink consumption means that Acuity B1 offers comparatively low cost-in-use. You won't waste ink and media with lengthy make-readies. Energy-efficient LED UV technology also helps keep costs down.

## Convenient material size and familiar format

B1 is a hugely convenient, easy-to-handle format. If you use offset or analogue screen processes, you'll probably be familiar with it. Teamed with full automation, sheets fly off the press; no need to unnecessarily handle large and unwieldy materials.

## Fits into existing workflows

If you already have a B1 setup, Acuity B1 will fit with any handling and finishing equipment. This means minimal disruption to how you work.

## Simple setup – one operator

Acuity B1 requires only one operator and it's simple and straightforward to set up. This means you can keep labour costs to a minimum. A powerful and intuitive graphical interface makes printing even easier.



## Technical specification

Acuity B1	
<b>Printer type</b>	Sheet-to-sheet, full-width scanning
<b>Print speed</b>	Up to 200 sheets/hr – 120 sheets/hr (CMYK), 200 sheets/hr (CMYK + CMYK)
<b>Printhead</b>	Fujifilm Dimatix QFR7 (7 pl)
<b>Channels</b>	8 channels - (4-colour CMYK or 4-colour CMYK x 2)
<b>Print resolution</b>	960 dpi
<b>Registration accuracy</b>	+/- 0.1mm with integral optical alignment system
<b>Text quality</b>	4 pt western, 5 pt reverse text
<b>Ink type</b>	Uvijet KX series (5 kg bag-in-box)
<b>Maximum print area</b>	1,040 mm x 714 mm (5 mm minimum margin on all edges)
<b>Maximum media width</b>	1,050 mm x 750 mm
<b>Minimum media width</b>	530 mm x 380 mm
<b>Media thickness</b>	0.1 mm up to 10 mm
<b>Materials</b>	Papers (coated and uncoated), cartonboard, microflute, plastics (PP, PS, PVC, PE, PETG)
<b>Maximum sheet weight</b>	3 kg
<b>RIP</b>	Caldera, ColorGATE
<b>Network</b>	Minimum 1000 Base-T
<b>Dimensions (W x D x H)</b>	9,500 mm x 3,100 mm x 1,800 mm
<b>Machine footprint (W x D)</b>	11,500 mm x 5,100 mm
<b>Machine weight</b>	5,500 kg
<b>Power requirements</b>	Print engine and automatic feeder: 3-phase, 380-480 V AC, 60 A, 50/60 Hz, protective earth / ground UV curing tunnel and automatic stacker: 3-phase, 380-480 V AC, 40 A, 50/60 Hz, protective earth / ground
<b>Compressed air</b>	6 bar (88 psi) minimum, 0.3 m <sup>3</sup> /min, ISO8573.1:2001(E) Class 1.4.1
<b>Chilled coolant requirement</b>	15°C at maximum 6 bar, 17 l/min, minimum 1.5 kW capacity (above dew point)
<b>Environmental conditions</b>	Operation: 20-30°C, 45-80% RH Shutdown: 10-30°C, Less than 80% RH

### For further information:

Please contact your local Fujifilm partner.

**web** [www.fujifilm.eu/print](http://www.fujifilm.eu/print) **YouTube** Fujifilm Print **Twitter** @FujifilmPrint

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