



Acuity LED 1600 II UV Inkjet Printer

PRODUCT BROCHURE

Large format hybrid printer driven by Fujifilm technology,
designed for creativity.



Acuity LED 1600 II

High performance Fujifilm LED UV

The latest generation of this successful LED UV hybrid printer is now **even faster and more versatile**, with simultaneous colour, white and clear ink printing. Powered by Fujifilm's leading printhead and ink technologies, this is a reliable production machine **built to deliver exceptional results**.

Key features

- ▶ Low energy consumption, long life LED lamps (up to 10,000 hours)
- ▶ Fujifilm Dimatix Q class industrial printheads
- ▶ Excellent productivity up to 33m² per hour
- ▶ Excellent ink coverage with strong, vibrant colours
- ▶ Uvijet LL eight colour ink set to meet a broad range of application needs
- ▶ Simultaneous multi-layer printing with colours, white and clear
- ▶ Print roll media and rigid sheets

Cost-effective LED UV technology

Acuity LED 1600 II is built to produce exceptional print results in the most environmentally friendly way, with low energy LED UV curing technology. LED lamps consume far less energy than conventional UV and last up to ten times longer so have a positive impact on the total cost of ownership.

Robust build, reliable production

Acuity LED printers are built for continuous printing and some owners even run them 24/7. Fujifilm Dimatix printheads are both precise, fast, and have a track record of long life in print production.

Wide application range

Produce a wide range of applications on roll and rigid materials, including display graphics, signage, decals, environmental graphics and package prototypes. LEDs produce very little heat, which means they can work with heat-sensitive media without deformation. High impact Acuity LED prints can be used with specialist finishing processes to create durable architectural graphics.

Added value, creative printing

Simultaneous two or three-layer printing with colour, white and clear inks provides the ability to produce high value creative prints that can expand your service offer.





LED UV is better for your business

- High definition, accurate print with a range of finishes
- Buyers want media that is easier to recycle
- Uses a fraction of the energy of conventional curing systems
- LEDs work instantly without a warm-up delay
- LEDs are safe to work with
- LEDs are suitable for both roll and rigid applications

Acuity LED is better for the environment

- Prints recyclable polyolefin films
- Long life, low energy LED UV lamps
- No wasted heat
- No volatile organic compounds (VOCs) or ozone
- No toxic metal halide lamps
- Reusable ink cartridge cases

Fujifilm VersaDrop™ imaging

VersaDrop™ multi-pulse jetting delivers droplets of different sizes according to the definition needed by the image. This gives both smooth changes in tone and rock-solid spot colours. VersaDrop™ achieves phenomenal accuracy by forming droplets at the nozzle rather than in flight to the substrate, where they can be disturbed by air turbulence above the media.



Acuity
LED with
6-colours



Standard
CMYK
printer



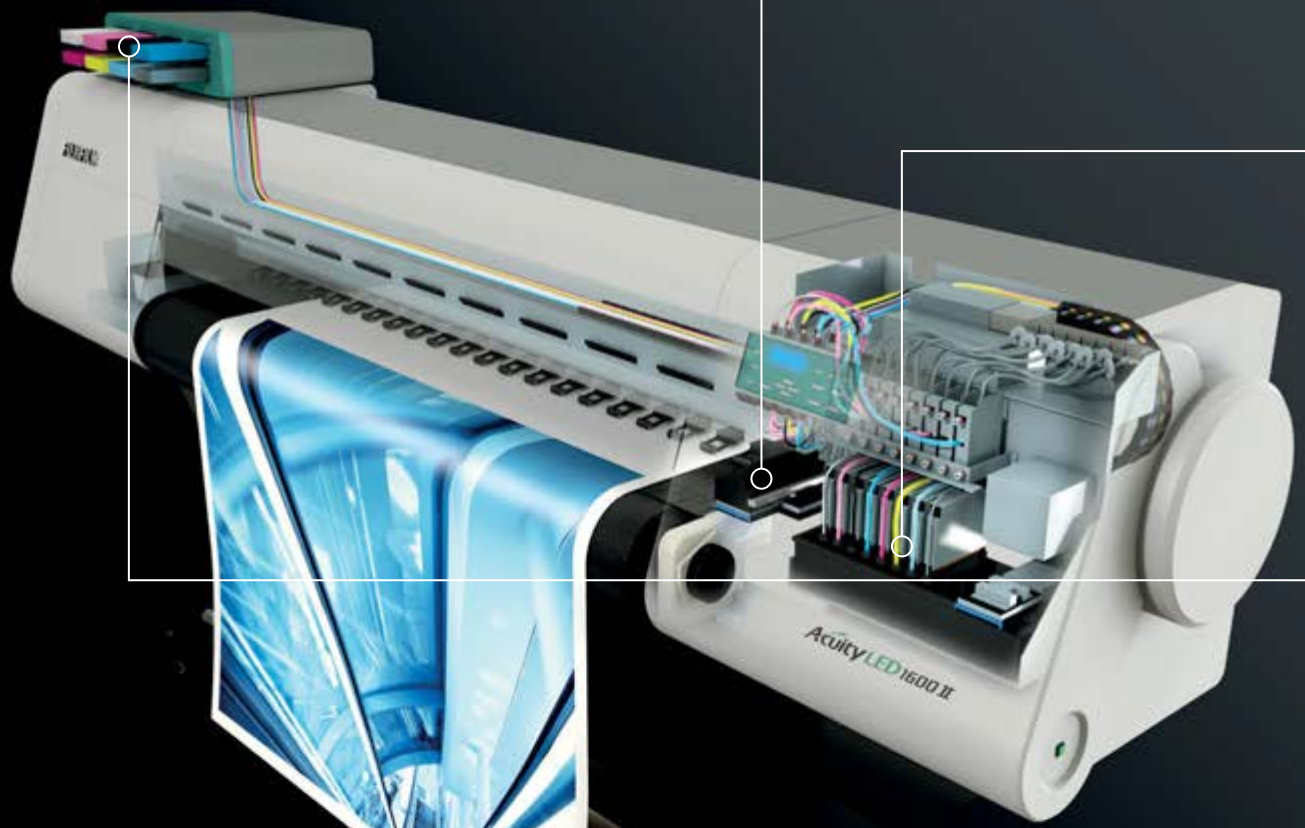
*Fits into any
environment
– no solvent
fumes, no
ozone, no
surplus heat.*

Driven by Fujifilm technology

At the heart of the Acuity LED 1600 II lie ink, printheads and LED curing systems that were designed for each other. They are accurately tuned to give brilliant images, at speed, even on traditionally difficult to print media.

The combination of technology is clever enough to allow the Acuity LED 1600 II to print colour, white and varnish simultaneously in one pass without re-rolling.

It's a state-of-the-art technology made possible by Fujifilm's commitment to research and development. The result is an outstanding printer which is flexible and reliable with minimal environmental impact.



Developing the inkjet systems of the future

Fujifilm's investment in R&D is unprecedented at over €1 billion every year. Our expertise in chemistry and surface coatings, electronics, optics and software have driven pioneering innovations over the last 70 years.

Our expertise in imaging and inkjet technologies is second to none. At our Advanced Marking Research Laboratory in Tokyo, we are combining benchmark printhead, software and ink technologies to create the industrial inkjet printing systems of the future.



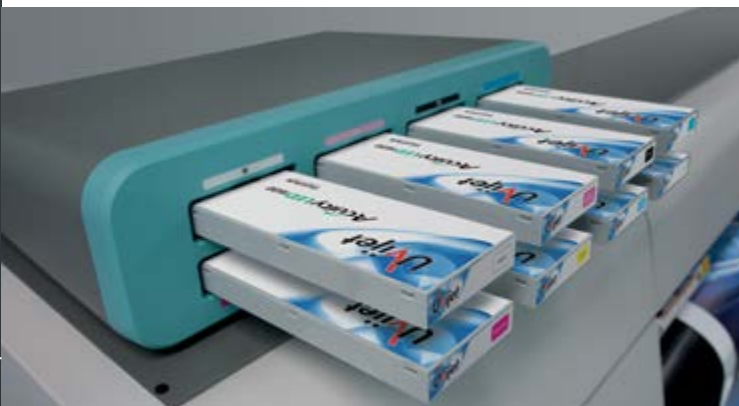
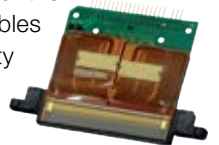
Fujifilm LED UV lamp system

The Acuity LED 1600 II's patented full LED lamp system is perfectly tuned to cure its own Uvjet ink in a two-stage curing process. Small, low-dose LED pinning lamps close to the printhead freeze the dot, while the main LED curing lamps fully cure the print which is ready to use straight away. Adjustable lamp positioning enables the curing to be finely controlled.



Fujifilm Dimatix heads

The Acuity LED 1600 II uses eight Q-class printheads. These high frequency heads are both precise, fast, and have a track record of long life in high performance production. The combination of VersaDrop™ multi-pulse jetting technology and accurate control of the jetting, pinning and curing process, enables the Acuity LED 1600 II to produce quality print at fast print speeds.



Fujifilm Uvjet inks

Uvjet ink systems are renowned in the industry through Fujifilm's high-productivity wide format printers. Made using Fujifilm's Micro-V ultrafine dispersion technology, enabling higher pigmentation, they produce strong, vibrant images and a wide colour gamut. The Acuity LED UV's dedicated eight-colour UV LED ink set includes white and clear varnish. The Acuity LED 1600 II can apply colours, white or varnish in a single pass, offering a host of creative possibilities.



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**Our innovation made UV
inkjet a reality.”**

*Dr Carole Noutary
Digital Inks Development, Fujifilm Speciality Ink Systems*

It took some serious science from Carole and her colleagues at Fujifilm Speciality Ink Systems to crack the problem of inkjet printing with UV-curable inks. Their expertise helped to create a UV ink with particles small enough to work reliably through an inkjet printhead, opening up a whole new market in the process.



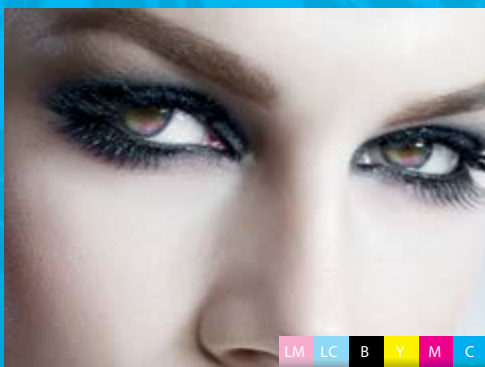
Profit from your creativity

The Acuity LED 1600 II is a winner for one simple reason – it's a profit generator. LEDs only use a quarter of the energy of conventional UV lamps, and they last ten times longer. The printer can also tackle a huge range of roll and rigid applications including heat-sensitive film and non-PVC media, which buyers are demanding more and more. It is built to breeze through all the standard applications, including posters, window displays, backlit signs, indoor and outdoor signs, point of purchase and packaging. But with white and clear inks as standard, the Acuity LED 1600 II can also produce high added-value work.



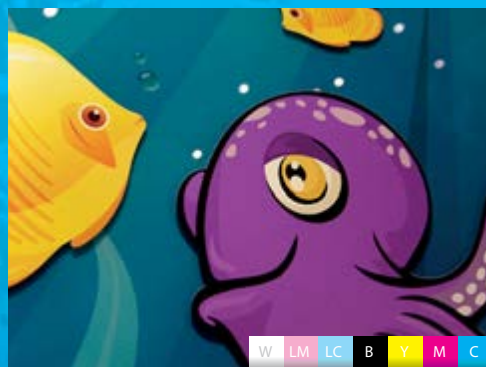
Near photographic quality

Achieve smooth tones and outstanding close-up clarity thanks to light inks, variable drop printheads and dot gain control.



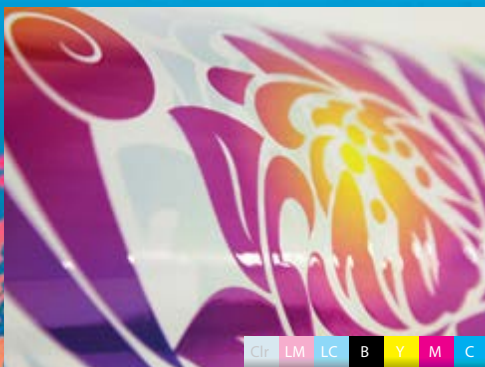
White

High density white ink can be printed with colours in one pass. It makes a perfect, high-opacity barrier for clear and coloured media.



Varnish

Clear ink offers the luxury to highlight or enhance print with high-gloss spot finishes.



Creative

Produce novel applications by using colour plus white and varnish combinations on a wide range of creative roll or rigid materials.



Fujifilm spot-colour matching software

Get the colour spot on for every media. Match any colour in minutes with Fujifilm's simple-to-use software.



Six colours of pigment-rich ink, with an enhanced green, yellow and red gamut can print accurate spot colours.





approved
media

Acuity LED 1600 II

euromedia

The creative combination

Whatever you need – media, display solutions and finishing tools – Fujifilm has tested them all and selected the best for its euromedia brand. The comprehensive media range includes hundreds of products for large format printing, including Acuity LED 1600 II approved materials. Fujifilm euromedia experts are on hand to guide and advise on how to get the best from your print.

Visit www.euromedia.eu.com



Rigid and flexible media

The Acuity LED 1600 II converts quickly from roll media to rigid. It gives excellent results on PET film, PETG, self adhesive vinyl and conventional PVC, stock paper, board and even lightweight aluminium. The Acuity LED 1600 II uses the same ink for both rigid and roll applications, avoiding duplicate stock and shelf-life concerns.



Technical specification

Physical characteristics			
Printing technology	LED UV inkjet		
Max. print width	1610 mm		
Max. media thickness	13 mm Printer tables included for printing on rigid substrates		
Max. media weight	Roll: 25 kg Rigid: Up to 5 kg/1.8m (max length), 5 - 9 kg/1.6m, 9 - 12 kg/1.2m		
Printhead	FUJIFILM Dimatix Q-class printheads		
Fujifilm Uvjet UV inks	Fujifilm Uvjet LL LED UV curable ink 8 colours (cyan, magenta, yellow, black, light cyan, light magenta, white, clear)		
Physical dimensions	3220 (W) x 780 (D) x 1524 mm (H)		
Weight	Printer - 280 kg, Tables - 50 kg		
Power	AC 100-120 V, 200-240 V, 50/60 Hz		
Interface	USB 2.0		
Print modes & speeds			
Mode	No of passes	Resolution (dpi)	Max speed (m²/h)
Express*	6 pass bi-di	600 x 300	33
Production	10 pass bi-di	600 x 500	20
Standard	16 pass bi-di	900 x 800	13
Quality	24 pass bi-di	1200 x 1200	7.4
High Quality	48 pass bi-di	1200 x 1200	4.2

*Requires LED 1600 II firmware

The Acuity series

All printers in the Acuity series offer supreme print quality, at production speeds and can handle a wide range of applications.

Machine	Print Speed	Bed Size	Roll
Acuity LED 1600 II	33 m ² /h	1.6 m width	✓
Acuity Advance	22.2 m ² /hr	1.26 x 2.51 m	Optional
Acuity Advance X2	22.9 m ² /hr	2.51 x 3.06 m	Optional
Acuity Advance HS	40.2 m ² /hr	1.26 x 2.51 m	Optional
Acuity Advance HS/X2	42.9 m ² /hr	2.51 x 3.06 m	Optional

Specifications are subject to change without notice.

For further details and more information on Fujifilm's Acuity LED 1600 II UV Inkjet Printer, please contact your local Fujifilm Graphic Systems representative.

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FUJIFILM Australia

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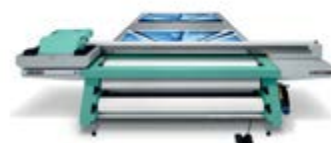
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Acuity LED 1600 II



Acuity Advance and Acuity Advance HS
with standard bed size



Acuity Advance X2 or Advance HS X2
with double bed size

FUJIFILM
Value from Innovation