FUJIFILM

Acuity LED 1600 II: Overview

High value creative printing with LED UV technology

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

▶ Fujifilm Dimatix Q-class industrial printheads

▶ Low energy consumption, long life LED lamps (up to 10,000 hours)

▶ Fujifilm Uvijet LL eight colour ink set to meet a broad range of application needs

▶ Excellent productivity up to 33m^2 per hour

▶ Simultaneous multi-layer printing with colours, white and clear

▶ Excellent ink coverage with strong, vibrant colours

▶ Print roll media and rigid sheets

Acuity LED 1600 II

Offer your customers higher value print solutions

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.

Designed for creativity

Print on a wide range of materials
Fujifilm Uvijet inks offer excellent adhesion to a wide range of standard roll and rigid media and interesting materials like coloured media, clear media and mirror board.

Near photographic quality images
Achieve smooth tones and outstanding close-up clarity thanks to light inks, variable drop printheads and dot gain control. VersaDrop™ multi-pulse jetting delivers droplets of different sizes according to the definition needed by the image to produce smooth changes in tone.

Clear and white ink
Clear ink offers the luxury to highlight or enhance print with high-gloss spot finishes. High density white ink can be used to produce creative effects on clear and coloured media. Colours, white and clear inks can be printed simultaneously.

Colour-white-colour layer printing
Print colour-white-colour layers in one pass for two-sided images on transparent materials.

Vibrant colours
Fujifilm Uvijet ink systems are renowned in the industry through Fujifilm's high-productivity wide format printers. Fujifilm's Micro-V ultrafine dispersion production technology produces high pigmentation for strong, vibrant images and a wide colour gamut.

Built for efficient production

Prints are immediately dry
LED UV cures the ink instantly so there is no need to wait for the print to dry before finishing or shipping.

Low maintenance
LED UV inkjet requires minimal daily maintenance.

Fast startup
LED UV requires no lamp warm-up time, so printing can start immediately.

Print mode options
A range of print modes are available to provide different levels of quality and speed, depending on the specific job requirements. The fastest print mode offers up to 33m²/hr.

Quick switch between roll and rigid printing
Flatbed feed and receive tables are used for printing rigid media. Fitting takes just a couple of minutes.

Driven by Fujifilm technology

Fujifilm print system technology
The inks, printheads and LED curing system are Fujifilm technologies. They are accurately tuned to deliver brilliant images at speed.

Fujifilm Dimatix printheads
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.

LED UV technology
LED UV lamps use a fraction of the energy of conventional curing systems, produce no wasted heat and are safe to work with. LEDs produce very little heat, which means they can work with heat-sensitive media such as thin films.

8 colour Fujifilm Uvijet ink set
Includes CMYK, light cyan, light magenta, white and clear inks as standard. Light inks enhance colour reproduction, producing smooth tonal images like skin tones, vignettes and lighter solid colours.

Easy installation
As there is no wasted heat, VOCs or ozone, the printer can be installed in any production environment without dedicated extraction.

Reusable cartridge system
The disposable foil ink pouch is contained by a reusable plastic ink cartridge holder, reducing waste.

Technical specification

Acuity LED 1600 II		
Printing technology		LED UV inkjet
Media	Max print width	1610mm
	Print length tolerance	Error of ± 0.3% of distance travelled, or ± 0.3mm, whichever is greater.
	Max thickness	13mm Printer tables included for printing on rigid substrates
	Max weight	Rigid: 12kg, Roll: 25kg
Ink		Fujifilm Uvijet LL LED UV curable ink (600ml pouch) 8 colours (cyan, magenta, yellow, black, light cyan, light magenta, white, clear)
Printheads		Fujifilm Dimatix Q-class printheads
Interface		USB 2.0
RIP recommendation		Caldera V10 ColorGATE Production Suite 9
Operating environment		18-30°C, 30-70% RH non-condensing, 5-10 air changes per hour
Power requirements		AC 100-120V, 200-240V, 50/60Hz
Dimensions (W x L x H)		3.22 × 0.78 x 1.52m
Weight	Printer only	280kg
	Tables	50kg

Print modes and speeds

Mode	No of passes	Resolution (dpi)	Max speed (m²/hr)
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	8.3
High Quality	48 pass bi-di	1200 x 1200	4.2

For further information:
Please contact your local Fujifilm partner.
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