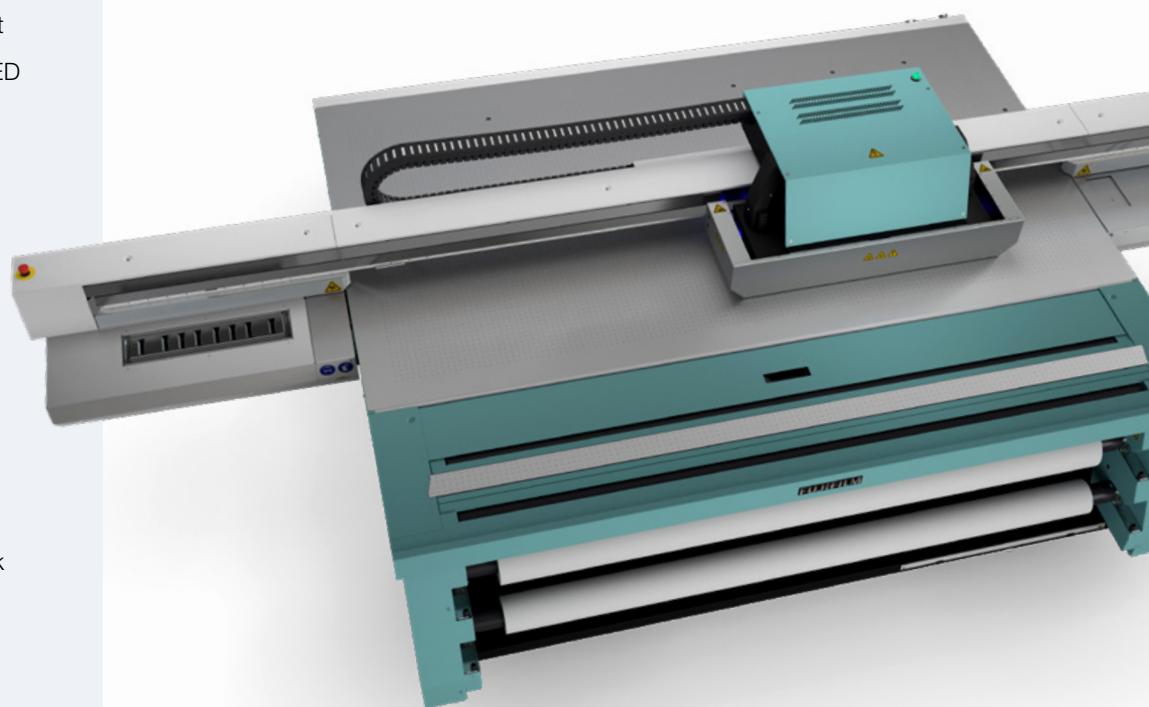FUJIFILM

Acuity LED 40: Overview

The most economical and versatile Acuity flatbed ever

The ultimate platform for printing on rigid, flexible and roll media, delivering near-photographic quality images across a diverse range of creative applications. Acuity LED 40 printers deliver superb performance and thanks to the latest LED UV curing technologies are economical to run, with a range of investment and upgrade options.

Key features

▶ Long lasting, low energy LED UV curing system - up to 10,000 hours

▶ Up to 52.8m²/hr throughput

▶ Dedicated new Uvijet KL LED UV ink system

▶ High resolution greyscale printheads

▶ Standard (1.25 x 2.5m) and double-sized (3.08 x 2.5m) bed versions

▶ Registration pins

▶ Multi-zone vacuum table

▶ Roll media option

▶ 4, 6 or 8 colour channels (upgradable)

▶ White ink, clear ink, light ink options

▶ AMS cleaning system

Acuity LED 40

Produce a wide range of high value print with LED UV technology

A secure investment in proven LED UV technology

The Acuity flatbed platform has been the industry benchmark since 2007 with thousands of machines installed worldwide. The Acuity LED 40 features the latest LED UV curing technology to deliver consistent quality and reliable, economical performance.

Produce a wide range of applications

With outstanding image quality and excellent adhesion to a broad range of rigid and flexible media, materials and objects, the Acuity LED 40 can produce an amazing variety of printed products for distance and close viewing. The vacuum table can handle almost any sheet material. It secures rigid and flexible media and holds it perfectly flat for high quality print across every sheet.

Expand your business with new applications

The option to print with white and clear inks, and to print directly to interesting materials in perfect registration, enables the Acuity LED 40 to produce high value, creative work that could offer opportunities for new revenue. With light inks, the Acuity LED 40 can produce high quality fine art or photographic work.

Economical to use

With variable drop-size printheads and highly pigmented inks, Acuity LED 40 printers lay down a thin ink film, which minimises production costs. In addition, by using low energy, long lasting LED UV technology, the Acuity LED 40 is very economical to use. Through an excellent service infrastructure, Fujifilm also provides world-class support to minimise machine down-time.

The all-in-one flatbed printer

Dedicated flatbed design with roll option
The dedicated flatbed design ensures accurate registration for edge-to-edge printing and tiling of large layouts over multiple boards, even with multiple print passes. A roll media printing option is available, extending application versatility.

High quality
Greyscale printheads in an in-line configuration combined with full bed mapping deliver near-photographic image quality that is consistent over the whole bed.

Uvijet LED UV ink technology
Fujifilm's Uvijet ink delivers strong, vibrant, lightfast colours with superior colour gamut. Ink system options are available to suit a range of application needs, even for specialist processes like thermoforming.

Colour channel options
The Acuity LED 40 can be configured with either 4, 6 or 8 colour channels. The channels are populated with ink sets that best suit your application needs, including CMYK, light cyan and magenta, white, clear.

Print mode options
A range of print modes are available to provide different levels of quality and speed, depending on the specific job requirements. A high key print mode, delivering 52.8m^2/hr, enables stunning applications to be printed even at higher speeds.

The flexibility for multiple applications

Versatile printing
▶ Produce point of sale graphics, indoor signage, industrial graphics and product decoration, printing direct to rigid or flexible sheets, objects or pre-cut media

▶ Print on PVC, polycarbonate, styrene, acrylic, paper, board, wood, aluminium composite and many other materials

▶ Produce borderless prints with little effort

▶ Create proofs for a customer that are identical to the production run

▶ Use clear ink to add impact using a spot or flood clear with uniform finish

▶ Use white ink to produce images on transparent or coloured materials

▶ Print colour-white-colour layers in one pass for two-sided images on transparent materials

▶ Print stunning backlit images direct to transparent media

▶ Print with a double strike white for extra-high opacity

▶ Produce fine art or photographic work with light inks

Designed for your production environment

Compact footprint
Acuity LED 40 printers are built to fit into compact spaces and the accessible design gives you flexibility in the way you work around the machine.

Vacuum zones
Dedicated vacuum zones tailored to common media sizes reduce the amount of bed masking required and enable quick media changeover. Adjustable vacuum strength provides optimum handling for different media.

Registration pins
Pneumatic registration pins enable quick, repeatable, easy loading of rigid media in perfect registration.

Anti-static bar
An optional ionising bar reduces the effects of static on some synthetic materials.

Hands-free cleaning
An Automatic Maintenance System reduces the amount of manual cleaning required. The automatic process is clean and consistent.

Roll to rigid flexibility
Rigid materials can be setup on the bed whilst printing on the roll unit. Changeover between rigid and flexible media jobs is very fast.

Non-stop production with X2
The double size print bed on X2 models has dual registration points that enable printing at one end whilst setting up at the other, for uninterrupted production. It also enables printing of large sheets up to 2.5 x 3.05m.

Technical specification

Acuity LED 40		Standard bed	X2 bed
Rigid media	**Max size**	1.25 × 2.50m	3.08 × 2.50m
	Max thickness	50.8mm	50.8mm
	Max print area	1.26 × 2.51m	3.09 × 2.51m
	Max weight	34kg/m²	34kg/m²
Roll media	**Max print width**	2.19m	2.19m
	Roll width	0.9 - 2.2m	0.9 - 2.2m
	Max roll weight	50kg	50kg
Ink	**Type**	Uvijet KL	
	Package	2 litre pouch (cyan, magenta, yellow, black, light cyan, light magenta) 1 litre pouch (white, clear)	
	Configuration	4 channel - C/M/Y/K 6 channel - C/M/Y/K plus W/W or W/Cl 8 channel - C/M/Y/K/Lc/Lm plus W/W or W/Cl (The colour configuration for the 6 channel machines needs to be specified on order)	
Printheads		Toshiba Tec CE-2 greyscale, variable drop 6-42pl	
Printing resolution		Image quality is equivalent to 1,200dpi resolution or higher	
Connectivity		10/100/1000 Base-T	
RIP recommendation		Caldera ColorGATE Production Suite	
Operating environment		18-30°C, 30-70% RH non-condensing, 5-10 air changes per hour	
Compressed air (supplied by customer)		Clean, dry, compressed air by use of: Coalescing filter, pressure regulator (set to 100 psi), ¼" OD air tubing - connects regulator to printer Flow requirement standard bed size: Peak flow: 57 l/min. at 690 kPa Flow requirement X2 bed size: Peak flow: 28 l/min. at 690 kPa	
Power requirements		2 x 200 to 240 VAC, 50/60Hz single phase, 16A. Circuit breaker: 16A	
Dimensions (W x L x H)	**Printer only**	4.66 × 2.00 x 1.30m	4.66 × 3.83 x 1.30m
	Printer & RMO [1]	4.66 × 2.30 x 1.30m	4.66 × 4.12 x 1.30m
Weight	**Printer only**	785kg	1625kg
	Printer & RMO [1]	960kg	1800kg

*1 Roll media option

Print modes and speeds

	Acuity LED 40 series models					Print speed (m²/hr)		
Print mode	**44**	**46**		**48**				
	CMYK	CMYK +WW	CMYK +WCl	CMYK +LcLm +WW	CMYK +LcLm +WCl	Standard	X2	Roll
High Key	●	●	●	●	●	50.9	52.8	38.6
Express	●	●	●	●	●	34.2	35.0	25.8
Production Fast				●	●	25.2	26.0	18.8
Production	●	●	●	●	●	20.8	21.1	17.0
Quality	●	●	●	●	●	14.6	14.6	12.0
Quality Density	●	●	●	●	●	7.9	8.2	7.9
Quality Matte				●	●	10.4	10.8	6.3
Quality Layered (2)		●	●	●	●	7.3	7.3	6.0
Quality Layered (3)		●	●	●	●	4.8	4.8	4.0
Fine Art	●	●	●	●	●	11.7	11.9	9.5
High Definition	●	●	●	●	●	6.2	6.1	6.0
Varnish (High Gloss)			●		●	~4.0	~5.0	n/a

For further information:
Please contact your local Fujifilm partner.
web www.fujifilm.eu/print   **YouTube** Fujifilm Print   **Twitter** @FujifilmPrint

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