Acuity Prime Range

PRODUCT BROCHURE
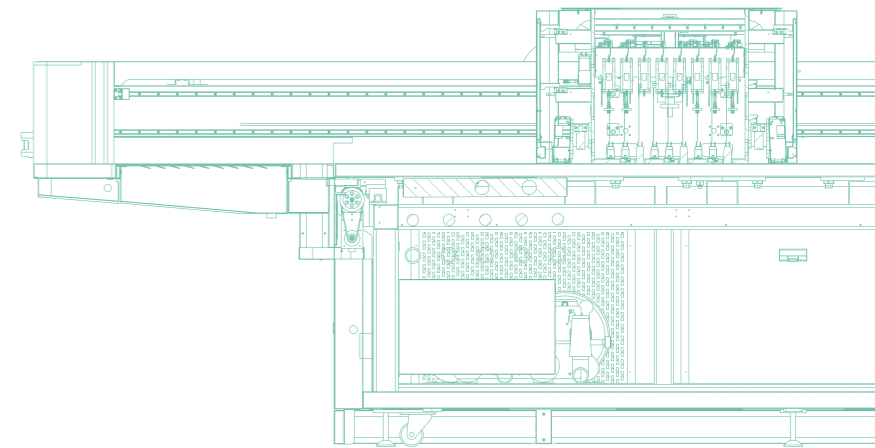
World-class
wide format
printing solutions

Better By Design

The new blueprint for wide format.

With this project, we gave ourselves the freedom to go right back to first principles, and that led us to create something quite different from anything either we – or anyone else – had created before.

The Acuity Prime and Acuity Prime L have been recognised for excellence in product design.

reddot winner 2021

iF DESIGN AWARD 2021

GOOD DESIGN AWARD 2021

Good design starts with understanding

By seeking to understand everything, from the long-term business goals, to the day-to-day frustrations of the customers we serve, we give ourselves the best starting point for good product design.

That was where we began when we set out to redesign our Fujifilm Acuity range. We talk to our customers all the time, troubleshooting, consulting and offering technical support. But for this project we needed deeper conversations and more time in which to have them.

This wasn't a box-ticking survey sent out by email – this was our designers (a specialist industrial design agency, Realise Design, whom we'd appointed to support the Tokyo Design Team)

shadowing our customers as they worked, looking for a thousand small ways to optimise their working experience – and therefore their businesses.

We looked at how improved product design could lead to improved usability, to enhanced performance and to a better ROI. The result was the launch of a brand new range of Acuity machines in 2021, that defined a 'new blueprint for wide format'.

This range now features dedicated roll and flatbed printers, along with a growing range of hybrid platforms. It is complemented by the HS6000, an industrial high-end platform for high volume sign and display applications.

Acuity Prime

The most economical and versatile Acuity flatbed ever.

Quality, speed and value
with no compromise

A true flatbed with an award-winning design, the Acuity Prime offers high quality printing on a range of rigid and flexible media, supported by dedicated vacuum zones and jettable primer. It is available at a cost effective price point and offers an excellent return on investment.

The Acuity flatbed platform has been the industry benchmark since 2007 with thousands of machines installed worldwide. The Acuity Prime features the very latest LED UV technologies to deliver unbeatable performance, along with the quality and reliability you would expect from Fujifilm.

The Acuity Prime produces the best-in-class quality at the highest productivity on a wide range of rigid and flexible media.

Acuity Prime

Why Acuity Prime?

Lower ink use and excellent cost of ownership ensure unbeatable ROI

Produce the best flatbed quality at the highest production speeds

Operators benefit from an award-winning design that improves usability

Expand your
creative options

The option to print with white and clear inks, and to print directly to almost any material in perfect registration, enables the Acuity Prime to produce high value, creative work that could offer opportunities for new revenue. With the jettable primer option, the Acuity Prime can adhere to a wide variety of industrial media.

With outstanding image quality and excellent adhesion to a broad range of rigid and flexible media, materials and objects, the Acuity Prime can produce an amazing variety of printed products for distance and close viewing at ultra-high speeds. 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.

Key features:

- High resolution greyscale printheads
- Standard (2.54 m x 1.27 m)
- Up to 150 m²/hr throughput
- Registration pins
- 5 dedicated vacuum zones to minimise masking
- Powerful instant curing LED UV system
- Fujifilm Uvijet LED UV curing inks
- Standard 4 colour plus white and clear, with optional jettable primer
- Automatic Printhead Maintenance System (APMS)

"I don't believe there is any better way we could have spent this amount of money in terms of the overall quality, print capability and production capacity we've just added to our business than with the Acuity Prime."

Sam Cherry
Ebbsfleet Printing Solutions

Acuity Prime
at a glance

Visible status indicators

Automatic Printhead Maintenance System (APMS)

A new and user-friendly GUI

FUJIFILM

Five dedicated vacuum zones reduce bed masking

Pneumatic registration pins for quick, repeatable loading in perfect registration

Acuity Prime

Status lights for the ink tanks

Acuity Prime

Technical specifications

Acuity Prime		Acuity Prime 20	Acuity Prime 30
Rigid media	Max size	2.5 x 1.27 m	2.5 x 1.27 m
	Max thickness	51 mm	51 mm
	Max print area	2.5 x 1.27 m	2.5 x 1.27 m
	Max weight	45 kg/m²	45 kg/m²
Ink		Fujifilm Uvilet HM LED UV ink curable inks	Fujifilm Uvilet HM LED UV ink curable inks
Configuration		4 channel - CMYK 5 channel - CMYK + W, CMYK + CL (or CMYK + P) 6 channel - CMYK + Cl + W (or CMYK + P + Cl)	4 channel - CMYK 5 channel - CMYK + W, CMYK + CL (or CMYK + P) 6 channel - CMYK + Cl + W (or CMYK + P + Cl) 7 channel - CMYK + W + P + Cl
Curing system		Long lasting, low energy LED curing system	Long lasting, low energy LED curing system
Printheads		Ricoh Gen 5 greyscale, variable drop 7 - 21 pl	Ricoh Gen 5 greyscale, variable drop 7 - 21 pl
Printing resolution		Maximum 726 x 1,200 dpi (Fine Art)	Maximum 726 x 1,200 dpi (Fine Art)
Operating environment		16-30 °C, 30-70% RH non condensing	16-30 °C, 30-70% RH non condensing
Power requirements		220-240 VAC, single phase 50Hz/60Hz	220-240 VAC, single phase 50Hz/60Hz
Dimensions (W x L x H)	Printer	2.1 x 4.9 x 1.5 m	2.1 x 4.9 x 1.5 m
Weight	Printer	1600 kg	1600 kg

Print modes and speeds

Model	Acuity Prime 20			Acuity Prime 30			Acuity Prime L		
Smoothing modes	33	66	100	33	66	100	33	66	100
Sketch	130	93	90	150	N/A	126	204	152	147
Draft	69	55	46	99	81	65	107	89	73
Express	46	40	31	65	56	44	76	63	49
Production	35	31	23	47	43	33	55	54	36
Quality	23	21	15	33	30	22	36	35	24
Fine Art	17	16	11	25	23	16	27	26	18
*speeds in m²/hr									

Acuity Prime L

The Acuity Prime L is a large size LED UV flatbed benefiting from all of the features of the standard Acuity Prime. It is very easy to operate, and produces high quality results at high speeds. The Acuity Prime L provides a larger size table for printers that need to combine high productivity and high quality printing on larger sheet sizes. It features 6 vacuum zones and 16 media location pins, as well as the ability to print side by side jobs with its dual zone function.

Technical specifications

Acuity Prime L	
Max print area	3200 mm (W) x 2000 mm (D)
Max media thickness	51 mm
Max load	45 kg/m²
Vacuum zone	6 zones
Media register pins	16 pins
	Horizontal Front 6 pins, Horizontal Black 6 pins, Vertical 4 pins
Drop size	GEN5: 7 to 21 picolitres (3 levels)
Ink configuration	CMYK + Pr + W + Cl
Layer modes	5 Layers (CMYK PrWCl)
Pouch sizes	CMYK (2L), PrWCl (1L)
Ink	Uvijet HM
Connection	USB 3.0
Power supply	30A
Air supply	Pressure 0.4 MPa, 58 PSI Capacity 40/min, 1.4 CFM
Environment	Temperature: 16°C Relative humidity: 30 to 70%
Printer size	5600 mm (L) x 2830 mm (W: 3430 mm with PC stand) x 1500 mm (H)
Weight	2400 kg

Acuity Prime Hybrid

Versatile & ultra reliable

The Acuity Prime Hybrid is a mid-range LED UV wide format hybrid printer capable of printing on both rigid and roll media. The design of the printer is based on the award-winning Acuity Prime, including the printhead carriage, ink system, Automatic Printhead Maintenance System (APMS) and software interface.

The Acuity Prime Hybrid can be configured with up to 7 channels, with CMYK as standard, and optional White, Clear and Primer, and produces stunning quality print, able to produce droplet sizes down to 7pL. It handles flexible and rigid media up 51 mm thick, and roll media up to 2m wide, and benefits from an ultra-reliable and long lasting air cooled LED UV curing system.

It features a 4 zone vacuum system, and can produce print at speeds up to 141 m²/hr. The printer is suitable for an incredibly wide range of applications, but can also be configured with an optional primer, extending the range of applications that can be printed even further.
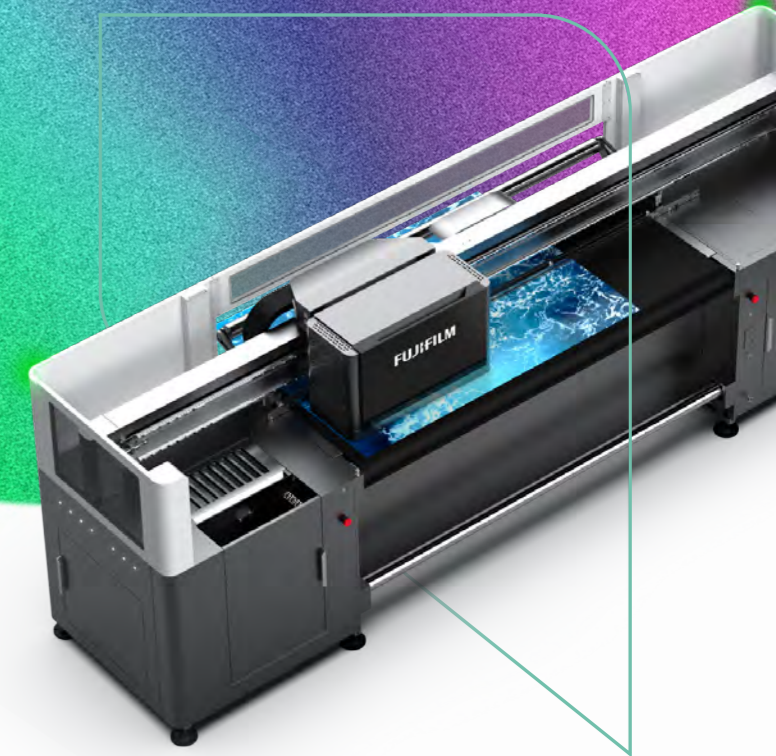
The Acuity Prime Hybrid also has a range of built-in safety features designed to maximise print uptime, which include anti-collision protection, with crash sensors deployed at both ends of the carriage, and an ioniser bar that reduces static on the media surface. Like the Acuity Prime, the printer also benefits from remote operation.

Acuity Prime Hybrid

Acuity Prime Hybrid

Key features

- Ultra-versatile, high quality printer
- Native 7 picolitre, 3 level greyscale printheads
- 2.05 m width
- Long lasting, air cooled LED UV curing system
- 4 vacuum zones
- Uvijet HM high performance inks
- 7 channels (CMYK plus optional White, Clear and Primer)
- Up to 141 m²/hr roll-to-roll
- Prints on heat-sensitive materials
- Intuitive GUI

Technical specifications

Acuity Prime Hybrid		
Ink		Uvijet HM ink
Colour		CMYK plus optional White, Clear and Primer
Maximum printable width		2050 mm
Productivity		up to 141 m²/hr
Maximum printable length	Rigid	1350 mm when 1 table is connected / 2120 mm when 2 tables are connected
Maximum media weight		45 kg/m²
Maximum roll diameter	Roll	320 mm outer diameter
Maximum media weight		100 kg / roll
Maximum media thickness		51 mm
Printer size		4292 mm x 990 mm x 1525 mm (without the table) / 4292 mm x 2530 mm x 1525 mm (with the table)
Recommended operational area		7.29 m x 5.53 m
Compressed air		>0.2 MPa. 0.6 MPa is recommended (min 40m³/min air flow capacity)
Weight		1500 kg (printer) / 94 kg (each table)

Suitable for use with a wide range of media

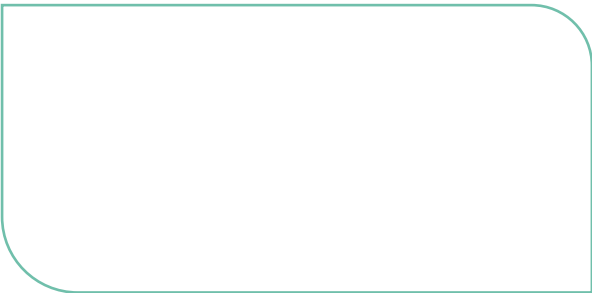| Media	Category	Media
Roll	Window display film	PE, clear PET, PVC, etc.
	Poster sheet	Non-coated paper, coated paper, Yupo paper
	Sign & display sheet	Self-adhesive PVC, Tarpaulin, Self-adhesive vinyl, self-cling PVC, polycarbonate, SAV, banner, polyester textiles
Rigid	Sign & display board	PC, PVC, PET, PP, PS, Correx, Expanded plastic composite, Aluminium composite, ACM, acrylic, foam PVC, etc.
	Industrial board	A primer may aid adhesion to a variety of industrial media

Print modes and speeds

Model	Acuity Prime Hybrid		
Smoothing modes	33	66	100
Sketch	141	N/A	109
Draft	92	73	61
Express	61	53	40
Production	43	38	28
Quality	28	27	19
Fine Art	22	21	14
*speeds in m²/hr			

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Value from Innovation

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print-emea.fujifilm.com/wide-format-sector

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