![FUJIFILM — Value from Innovation]

Acuity Prime range

PRODUCT BROCHURE

Discover our Acuity Prime range

Why Fujifilm?

Fujifilm has a heritage in wide format that has seen us build some of the best printing systems in the industry, combined with world-class support. So put your trust in Fujifilm for your next wide format investment.

Heritage

- We have a 60 year history in screen printing and the development of high performance inks
- We pioneered UV inkjet printing back in 2000, winning a Queen's award for enterprise for commercialising the technology

Stability

- We have a diverse technology portfolio across multiple industries
- We invest significant amounts in R&D to ensure we deliver the best combination of performance and value

Support

- We have developed a world-class infrastructure to support your business, whatever the situation
- We can run remote diagnostics on your Fujifilm equipment to minimise downtime

Ink

- Our Micro-V dispersion technology, together with the highest quality pigments, delivers stable and reliable inks with high colour intensity
- We operate a multi-award-winning ink manufacturing facility in the UK, winning the Best Factory Award 4 times in the last 10 years, to guarantee quality and consistency

Understanding

- We have been developing UV inkjet systems for over 20 years, giving us an unrivalled knowledge of the market and applications
- Our proprietary printhead, ink and integration expertise, across multiple industry sectors, means we are well equipped to develop the best systems on the market
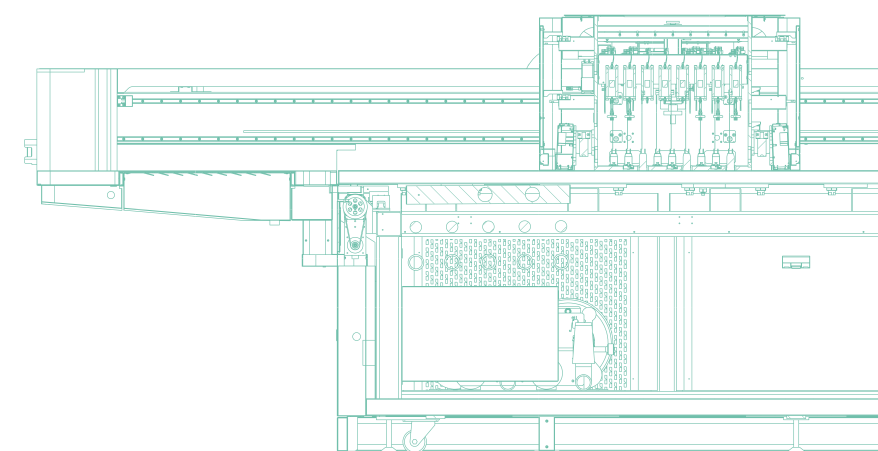
Better By Design

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.

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.

reddot winner 2021

iF DESIGN AWARD 2021

GOOD DESIGN AWARD 2021

reddot winner 2024

PINNACLE PRODUCT AWARD 24

The Acuity Prime, Acuity Prime L and Acuity Ultra R2 have all been recognised for excellence in product design.

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.

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

Enhances productivity with its full colour gamut, even in draft mode, thanks to Fujifilm patented ink

Uses 4 colours rather than 6 for a 25% ink saving with no compromise on quality

> **I hate limits and I like to print on the widest possible substrates. The Acuity Prime L, with its 3200 mm x 2000 mm flatbed, enables us to do this."**
>
> **Jan Carel Schepenaar**
> Director, A1 Signs

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)

Acuity Prime
at a glance

> **The productivity of the Acuity Prime is far beyond what we had expected and exceeds any other machine we have seen before in a similar price bracket."**

Davide Salvo
CEO & General Manager, Tech:art

Automatic Printhead
Maintenance System (APMS)

A new and user-friendly GUI

Visible status indicators

Five dedicated vacuum zones
reduce bed masking

Pneumatic registration pins
for quick, repeatable loading
in perfect registration

Status lights for
the ink tanks

FUJIFILM

Acuity Prime

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 Uvijet HM, HF, HZ LED UV ink curable inks	Fujifilm Uvijet HM, HF, HZ 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		220-240V, 50/60 Hz, single phase, 25A, peak power 6kW	220-240V, 50/60 Hz, single phase, 25A, peak power 6kW
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 Back 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 requirements	220-240V, 50/60 Hz, single phase, 30A, peak power 7.2kW
Air supply	Pressure 0.4 MPa, 58 PSI Capacity 40/min, 1.4 CFM
Operating environment	Temperature: 15-18°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 7 pL. It handles flexible and rigid media up 51 mm thick, and roll media up to 2.1 m 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.

Why Acuity Prime Hybrid?

Uses 4 colours rather than 6 for a 25% ink saving with no compromise on quality

Achieve exceptional printing results on an extensive variety of substrates, including heat sensitive materials like contravision and wallpaper
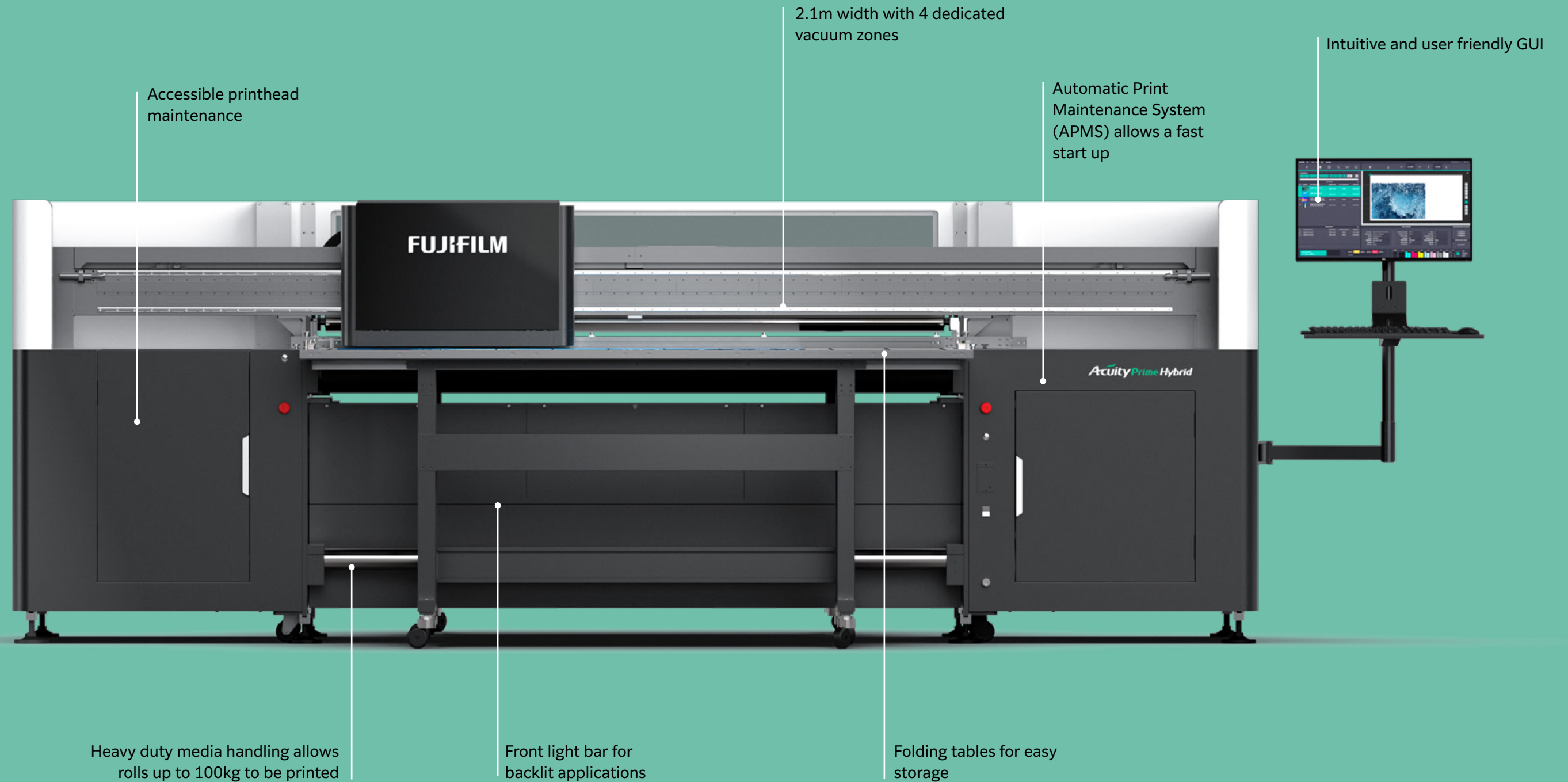
Automatic Print Maintenance System (APMS) allows a fast start up and minimal downtime

Dedicated hybrid with heavy-duty media handling

Acuity Prime Hybrid

Acuity Prime Hybrid
at a glance

2.1m width with 4 dedicated vacuum zones

Intuitive and user friendly GUI

Accessible printhead maintenance

Automatic Print Maintenance System (APMS) allows a fast start up

Heavy duty media handling allows rolls up to 100kg to be printed

Front light bar for backlit applications

Folding tables for easy storage

Acuity Prime Hybrid

Allen Signs invests in a Fujifilm Acuity Prime Hybrid to support its efficiency and expansion.

UK-based signage and vehicle livery specialist Allen Signs is a family-run wide format business that was established in 1965, and since then, has been producing a variety of different signage applications for its consumers. David Allen, the company's Managing Director, says his interest in the Acuity Prime Hybrid stemmed from its versatility and economical ink consumption. Allen comments: "Due to our familiarity with hybrid platforms, we sought the Acuity Prime Hybrid as an opportunity to explore the Fujifilm brand further. The printer has now allowed us to carry out our normal production with minimal issues and excellent quality and ink performance."

Allen adds that the Acuity Prime Hybrid's versatility has enabled his business to print on a wider variety of substrates more efficiently and cost- effectively. The machine is already being used to print on wall coverings, direct to board and even metallic surfaces.

Impressed by the printer's ease of use, Matt Ryder, Print Specialist at Allen Signs, says: "We tried a job on the new Fujifilm machine, and instantly, it tracked. It was perfect. As for materials, we are yet to come across a substrate that doesn't work."
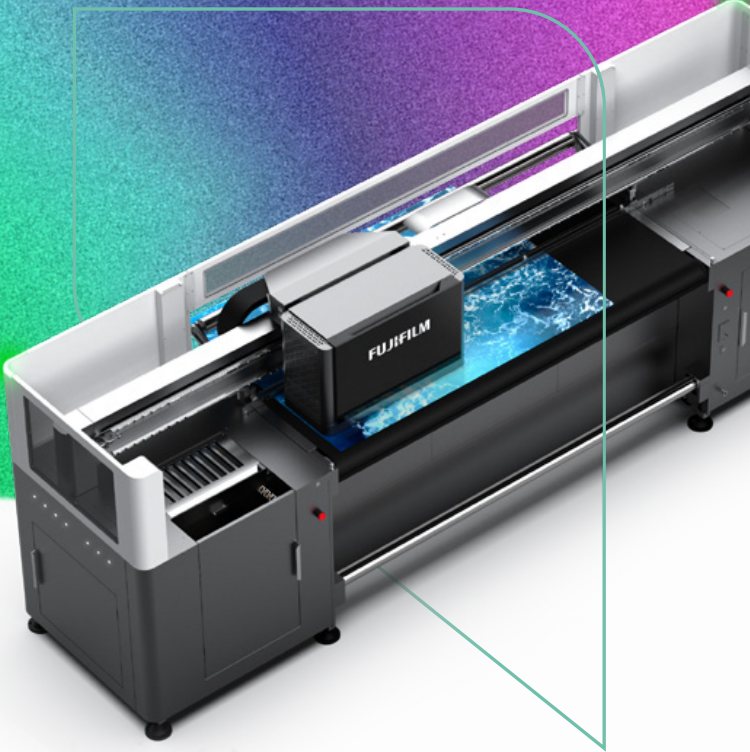
> " Fujifilm has been an absolute breeze to deal with. The installation and the training were extremely quick and efficient. I'm looking forward to seeing how the Acuity Prime Hybrid printer will allow us to expand our business in the future."
>
> **David Allen**
> Managing Director, Allen Signs

Acuity Prime Hybrid

Key features

- Ultra-versatile, high quality printer
- Native 7 picolitre, 3 level greyscale printheads
- 2.1 m print 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, HF, HZ ink
Colour	CMYK plus optional White, Clear and Primer
Maximum printable width	2100 mm
Productivity	up to 141 m²/hr
Maximum printable roll length	Up to 50m
Maximum rigid media weight	45 kg/m²
Maximum roll diameter	320 mm outer diameter
Maximum roll 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	8.0 m x 7.6 m
Air supply	90 psi / 6.20 bar
Power requirements	220-240V, 50/60 Hz, single phase, 20A, peak power 4.8kW
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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