The Acuity range

PRODUCT BROCHURE

The new blueprint for wide format

A new blueprint for wide format

From the place where it all began, comes a new blueprint for wide format, a blueprint set to define a new benchmark in UV inkjet system performance and return on investment.

Fujifilm's Global Wide Format Headquarters and award-winning inks factory in the UK town of Broadstairs was where the world's first instant curing UV screen inks were developed in the 1970s, and the first UV digital inkjet systems and inks were commercialised in the early 2000s.

Since 2000, Fujifilm has gone on to produce some of the most highly regarded UV cured inkjet inks and systems on the market, including the popular Acuity range of wide format printers launched in 2007. And it was in Broadstairs, that Fujifilm's new blueprint for wide format was conceived and developed.

Market maturity

The early years of wide format UV inkjet development were largely defined by advances in technology that delivered rapid and continual increases in print speed and quality. Fujifilm was spearheading these advances, but by the late 2010s, improvements in new machines, right across the market, were becoming marginal at best. Fujifilm saw a gap in the market for something new, and made a strategic decision to completely rethink its Acuity wide format offering; focusing on new ways to deliver improved value, versatility and ease of use and, in particular, defining a new level of print ROI.

Back to first principles

Fujifilm had a long and successful track record of working with OEMs and specialist partners to integrate its inks and inkjet technology, but for this next chapter, a new level of design freedom to create something that offered far more than marginal improvements was required.

To do this, Fujifilm returned to first principles, starting with an almost blank canvas and a challenge to strip everything back and create a completely new and improved range of machines. To help with this process, an award-winning industrial design company, Realise, was brought in, who, working closely with Fujifilm's Tokyo Design Centre, were tasked not simply with making changes to what had gone before, but with completely rethinking the press design to maximise the value, productivity, ease of use and ROI.

Fujifilm's vision was to combine stunning aesthetics with exceptional functionality, and to do this, an extensive listening exercise was conducted, meeting not only with business owners and directors, but also with press operators all over Europe. This exercise produced an understanding of what worked, what didn't, and what changes (whether simple or radical) would improve the value, versatility, usability, productivity and ROI.

It was clear from this exercise that the owners and directors of these companies want equipment that's reliable, fast and able to give them a rapid return on investment, but being in a creative industry, they also want machines that look stylish and that are easy to work with. For press operators, good machine design – aside from the obvious benefits to productivity – can be the difference between job satisfaction and great frustration, and the listening exercise uncovered many aspects of machine design that could be improved upon.

Fujifilm combined the findings from this extensive research exercise with its own knowledge and inkjet expertise to provide a structure for the design process. In parallel, the team also carried out comprehensive research into the best components and technologies on the market, and the best routes to assembly and manufacture. The output from all this research and creative thinking was effectively a completely new blueprint for what a UV inkjet system of the future should look like, how it should perform, and how it could be brought to life.

Bringing it all together

Four design criteria emerged from the blueprint that informed all design choices and helped to identify the right manufacturers and suppliers to work with. These were: quality, value, performance and ease-of-use. In addition, every component part selected was chosen with these four criteria in mind, from the printheads to the user interface, lamps, static control and vacuum solutions. Nothing was left unchanged that could be improved.

The result of this blueprint is the all-new Acuity range, designed and developed by Fujifilm.

The first two printers made to this new blueprint are the Acuity Ultra R2 and the Acuity Prime. The Acuity Ultra R2 is a completely redesigned version of the Acuity Ultra, which itself had set a new standard for super-wide print when it

was launched in 2018. The Acuity Prime is an entirely new, mid-range flatbed which offers ease of use and print ROI unmatched by anything else on the market.

Announced in 2021, the early sales success and an overwhelmingly positive market response to these machines has fully vindicated Fujifilm's bold new strategy. And this is just the beginning.

**For more information visit
FujifilmAcuity.com**

Acuity Prime

The Acuity Prime is a flatbed that offers best-in-class quality and productivity on a range of rigid and flexible media, supported by its five dedicated vacuum zones and jettable primer. This range is available at a cost effective price point and offers an excellent return on investment.

Key features

- ▶ Dedicated flatbed design
- ▶ 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 with clear and optional jettable primer
- ▶ Automatic Printhead Maintenance System (APMS)

Acuity Prime

Produce a wide range of high value print

Lower cost of ownership and superb ROI

With variable drop-size printheads and highly pigmented inks, Acuity Prime printers lay down a thin ink film, which minimises production costs, and in combination with a competitive system price, support an excellent ROI.

High quality achieved at high speeds

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.

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.

Designed with the operator in mind

At Fujifilm we understand the value of production time and usability, so we designed the Acuity Prime with the operator in mind. With a new and user-friendly GUI, easy clean printhead maintenance and visible status lights for the ink tanks, operators are able to spend less time maintaining the machine and more time printing.

"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, Director, Ebbsfleet Printing Solutions

"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

Technical specifications – Acuity Prime 20 & 30

Acuity Prime		20	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 LED UV ink curable inks	Fujifilm Uvijet HM LED UV ink curable inks
Configuration		4 channel - CMYK, 5 channel - CMYK + W, CMYK + CL or CMYK + P 6 channel - CMYK + WW, CMYK x + Cl + W, or CMYK + P + Cl	4 channel - CMYK, 5 channel - CMYK + W, CMYK + CL or CMYK + P 6 channel - CMYK + WW, 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 (8 pass)	Maximum 726 x 1,200 dpi (8 pass)
RIP recommendation		ColorGATE, Caldera, Onyx	ColorGATE, Caldera, Onyx
Operating environment		16-30 ºC, 30-70% RH non condensing	16-30 ºC, 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		
Smoothing modes	33	66	100	33	66	100
Sketch	130	93	90	150	n/a	126
Draft	69	55	46	99	81	65
Express	46	40	31	65	56	44
Production	35	31	23	47	43	33
Quality	23	21	15	33	30	22
Fine Art	17	16	11	25	23	16
*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, being designed with the user in mind whilst offering a competitive ROI. 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.

NEW!

Technical specifications

Acuity Prime L	
Max Print Area (width x depth)	3200 mm x 2000 mm
Productivity	Production mode 54.9 m²/h Quality mode 37.2 m²/h Express mode 75.8 m²/h
Max media thickness	51 mm
Max load	45 kg/m²
Vacuum zone	6 zones
Roll media option	No
Media register pins	16 pins
	Horizontal Front 6 pins, Horizontal Back 6 pins, Vertical 5 pins
Drop size	GEN5: 7 to 21 picolitres (3 levels)
Ink configuration	CMYK+ Pr +W+ Cl
Layer modes	5 Layers (CWYK PrWCl)
Pouch sizes	CMYK (2L), PrWCl (1L)
Ink	Uvijet HM
Connection	USB 3.0
Power supply	35A
Air supply	Pressure 0.4 MPa, 58 PSI Capacity 40 L/min,1.4 CFM
Environment	Temperature: 16˚ to 30˚ C Relative humidity: 30 to 70%
Printer size	5,600 mm x 2,830 mm x 1,500 mm
Weight	2,500 kg

Acuity Ultra R2

The Acuity Ultra R2 is a high quality, high productivity superwide platform, available in conventional UV and LED curing configurations. Engineered with the operator in mind and designed with specialist inks to support the printing of exceptional near-photographic interior graphics and the high speed printing of banners and PVC signage, the Acuity Ultra R2 is unique in being able to combine ultra-high quality, superb productivity and a groundbreaking return on investment in one platform.

Key features

- Native 3.5 picolitre, 3 level greyscale printhead
- Linear-driven printhead carriage
- Water-cooled vacuum table
- Accurate and reliable media transport system
- 3.2 m and 5 m options
- UV and LED curing options available
- Fujifilm Uvijet GS and AU inks
- Versatile, ultra-high quality 6 channel with white option
- Highly productive dual CMYK 8 channel model
- Up to 400 m²/hr
- 0.1 mm to 2.0 mm media thickness
- Multi-roll printing
- Prints on heat-sensitive materials
- Intuitive GUI

Acuity Ultra R2

Outstanding ROI

The perfect ratio for profitability

With the ideal ratio of quality, speed and cost-in-use, the Acuity Ultra R2 gives you the power to profit from a huge range of indoor and outdoor applications. Offer better quality. Produce at higher speeds. Drive your business forward with an outstanding superwide machine from a world leader in industrial inkjet technology.

Exceptional quality in superwide format

With the Acuity Ultra R2, you get the excellent high quality, productivity and reliability our Acuity range is known for, on a massive industrial scale – up to 5 metres wide. Industrial printheads with a 3.5 picolitre drop size ensure consistent high quality print.

Make an impact in the high-end indoor display market

The Acuity Ultra R2 is not only ideal for out of home applications such as single billboards and signage, it's also perfect for high-end indoor displays where close viewing requires images to be exceptionally clear and vibrant. With quality comparable to leading water-based inkjet systems, investing in an Acuity Ultra R2 can propel your business into the luxury brand market.

Industrial build quality

The robust chassis and linear, vibration free carriage drive, supported by a reliable feeding system, ensures accurate drop placement from first to last drop.

Versatility on a massive scale

With its massive format size, 2- or 3-up multi-roll potential, and ability to print on a broad range of materials, the Acuity Ultra R2 gives you the ability to profitably create exhibition graphics, POS displays, high-value graphic art, backlit displays, outdoor displays, outdoor signage and more. And now with the option of our LED versions, you can offer even more value and versatility to your workflow, based on customer demand.

Fully equipped to enhance productivity

The Acuity Ultra R2 is equipped with advanced features for flexible and productive printing, including: a unique chilled vacuum table to enable printing of thin heat-sensitive substrates; an on-board backlighting feature to enable image quality to be checked during printing; and an automatic nozzle spitting system to maintain consistent print quality.

Easy to use, saving time and money

With features to speed up job set-up times, enable the status of the print to easily be reviewed, through to the day-to-day maintenance of the machine, the ease of use of the Acuity Ultra R2 is a key contributor to improving your overall print ROI.
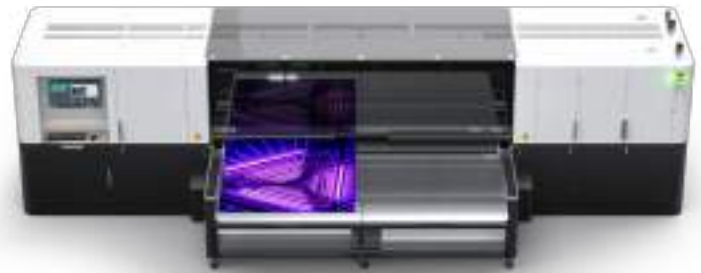
Technical specifications

Acuity Ultra R2	3200 series	3200 series	5000 series	5000 series
Curing system	LED	UV	LED	UV
Model	3204: CMYK 3206: CMYK LcLm 3208W: CMYK LcLmWW	3204: CMYK 3244: CMYK CMYK	5004: CMYK 5006: CMYK LcLm 5008W: CMYK LcLmWW	5004: CMYK 5044: CMYK CMYK
Printhead drop volume	Greyscale, 3.5 pl – 14 pl			
Printing technology	Piezoelectric drop-on-demand inkjet			
Resolution	Up to 1200 x 1200 dpi			
Inks	Uvijet AU series	Uvijet GS series	Uvijet AU series	Uvijet GS series
Maximum throughput	265 m²/hr		400 m²/hr	
Maximum media width	3.40 m		5.13 m	
Maximum media thickness	2.0 mm			
Minimum media thickness	0.1 mm			
Maximum print image width	3.20 m		5.00 m	
Media loading capabilities	Large rolls: 400 kg x 400 mm		Large rolls: 600 kg x 400 mm	
	Multi-rolls: 2 x 200 kg x 340 mm		Multi-rolls: 3 x 200 kg x 340 mm	
RIP	Caldera, ColorGATE			
Hardware interface	Ethernet TCP/IP, 1000 base-T			
Power requirements	3 phase, 400V AC, 50 Hz, 30A			
Power consumption	LED 15 kW, UV 21 kW			
Compressed air	Pressure (minimum): 8 kg/cm² (7.85 bar / 114 psi)			
	Flow rate (minimum): 1.2 m³/min (1200 l/min / 42.26 cfm)			
Environmental conditions	Temperature: 18˚C – 28˚C			
	Humidity: 40% – 80% RH (non-condensing)			
	Atmospheric dust: ≤0.15 mg/m³			
Dimensions (L x W x H) (excluding workstation)	6.81 m x 1.81 m x 2.04 m		8.5 m x 1.88 m x 2.21 m	
Machine weight	4750 kg		7740 kg	

Acuity Ultra Hybrid LED

NEW!

The Acuity Ultra Hybrid LED is a high-end printer for rigid and flexible media for the sign and display market, offering superb, high quality printing in a 3.3m platform. Engineered with the operator in mind and designed with specialist inks to support the printing of exceptional near-photographic interior graphics and the high-speed printing of banners and PVC signage, the Acuity Ultra Hybrid LED is unique in being able to combine ultra-high quality and ground-breaking return on investment for both rigid and flexible applications in one platform.

Technical specifications

Acuity Ultra Hybrid LED	
Media	Maximum width 3.3 metre
Print sizes	Maximum width 3.3 metre
Ink range	Uvijet UH std colours – CMYKLcLm – Optional white
Ink reservoir	Top loading 7 ltr tanks , White 2 ltr
Print head	Up to 16 Kyocera KJ4A heads
Number of nozzles	5,312 nozzles per colour channel with white channel having 10,624
Print resolution	Print resolution up to 1200 x 1200 dpi
Productivity	Up to 218 m²/hr for RTR, 100 m²/hr High Quality, 69 m²/hr Backlit
Curing system	LED Lamp – lamp life minimum 5000 hours
RIP	ColorGATE Production server Caldera
Power supply machine	380 v 3 phase 50/60 Hz 30 amp, 21 kw consumption. (Vacuum motor: 400 V 3-ph+N+PE/Gnd, 50/60 HZ, 80 A, 33.5 KW)
Connectivity	Minimum 1000 base T
Services	Pressure (minimum): 8 kg/cm² (7.85 bar / 114 psi)
Media Type – RTR	Up to 2 mm – PC, PET, UV textiles, Papers, SAV, Mesh, banner PVC
Media Type – rigid	Up to 5 cm – Foam PVC, Rigid PVC, Dibond, PE Flute, Acrylic, P&B
Media RTR – single roll	180 kg x 36 cm diameter x 3.2 m width
Media RTR – dual roll	Each - 50 kg x 36 cm diameter x 1.6 m width
Media RTR on table rollers	20 kg max weight
Media capabilities rigid	Max 15 kg/m² – Max single sheet weight on table 80 kg
Sheet sizes	Minimum sheet size 50 x 70 cm. Max 3.2 m x 3 m (with table extensions)
Environment	18-28° C. 40-80% RH (noncondensing) (Altitude 0-2000 m)
Dimensions L x W x H	8.3 m x 2.1 m x 1.9 m (With tables width 5.5 m or 7.5 m with table extensions)
Working area recommended	10.3 m x 9.5 m
Weight	8.3 T (Uncrated)

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