



# Acuity Ultra range

PRODUCT BROCHURE



# Discover our Acuity Ultra range

Page

2

Why Fujifilm?

4

**Acuity Ultra R2**

Roll printer that combines ultra-high quality, superb productivity and a groundbreaking ROI

14

**Acuity Ultra Hybrid LED**

Ultra-versatile, high quality hybrid printer able to print media up to 3.3m width at speeds up to 218 m<sup>2</sup>/hr

26

**Acuity Ultra Hybrid Pro**

High-end printer designed for rigid and flexible media up to 3.3 m in width, available with manual, half and full automation options





# 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

# FUJIFILM



## Acuity Ultra R2

The Acuity Ultra R2 is a high quality, high productivity superwide platform, available in Mercury UV and LED UV curing configurations. Engineered with the operator in mind, it is designed with specialist inks to support the printing of exceptional near-photographic interior graphics and the high speed printing of banners and PVC signage.

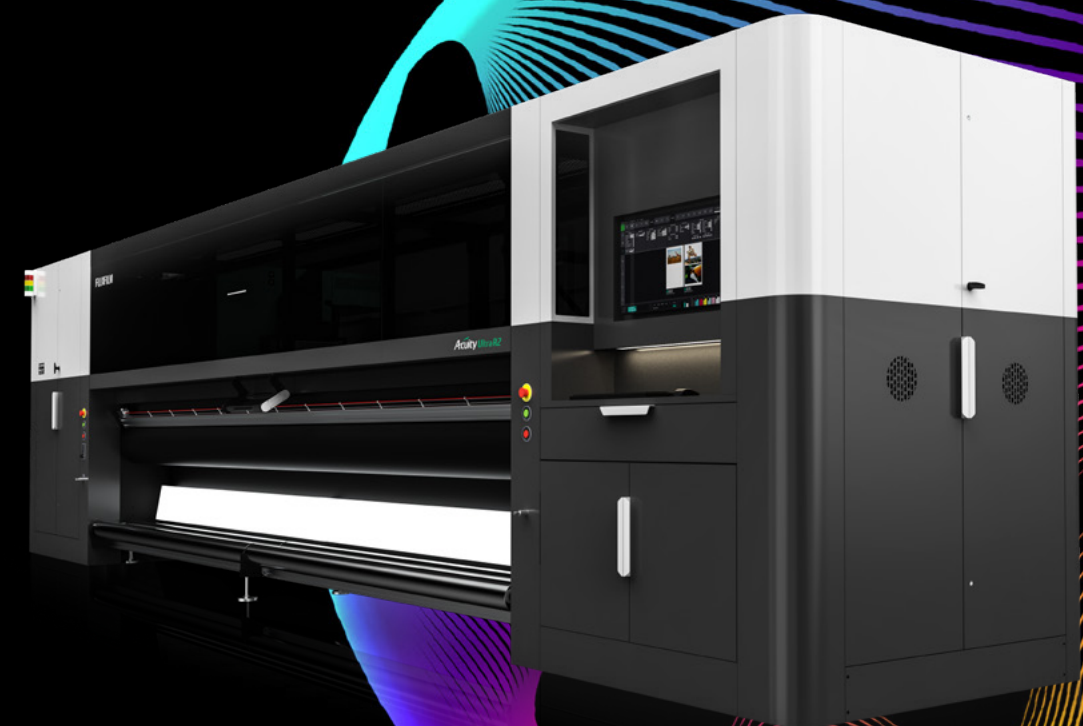
With the Acuity Ultra R2, you get the excellent high quality, productivity and reliability our Acuity range is known for, on a massive industrial scale. High performance printheads with a 3.5 picolitre drop size ensure consistent high quality print, and are combined with excellent build quality using industrial-quality components.

The robust chassis of the Acuity Ultra R2 is a substantial construction, contributing to the 7.7 t and 4.7 t weights of each model. In addition, the linear, vibration free carriage drive, supported by a reliable feeding system, ensures accurate drop placement from first to last drop.

**The Acuity Ultra R2 is a modular system with a scalable architecture, meaning it can grow and change as your business evolves.**

**Acuity Ultra R2**

# Ultra-high quality output



### Why Acuity Ultra R2?



Ultra-low ink consumption for low cost-in-use and exceptional ROI



Capable of producing ultra-high quality print at the highest production speeds



Incorporates advanced operator features for ultra reliable, profitable printing





**“Fujifilm understands the dynamic nature of our industry. From its machines to its support team, the company has proven to be an invaluable partner in our success.”**

**Miguel Ángel Gómez Cano**  
Managing Director Oedim Spain

## Oedim continues major investment in Fujifilm technology to fuel growth

Spanish printing giant Oedim has significantly increased its printing capabilities through its continued partnership with Fujifilm and further investments in an Acuity Ultra Hybrid LED and two 5m 'superwide' Acuity Ultra R2 printers. It has also expanded its premises by 5,000 square metres, bringing the total area of its facility to a massive 20,000 square metres.

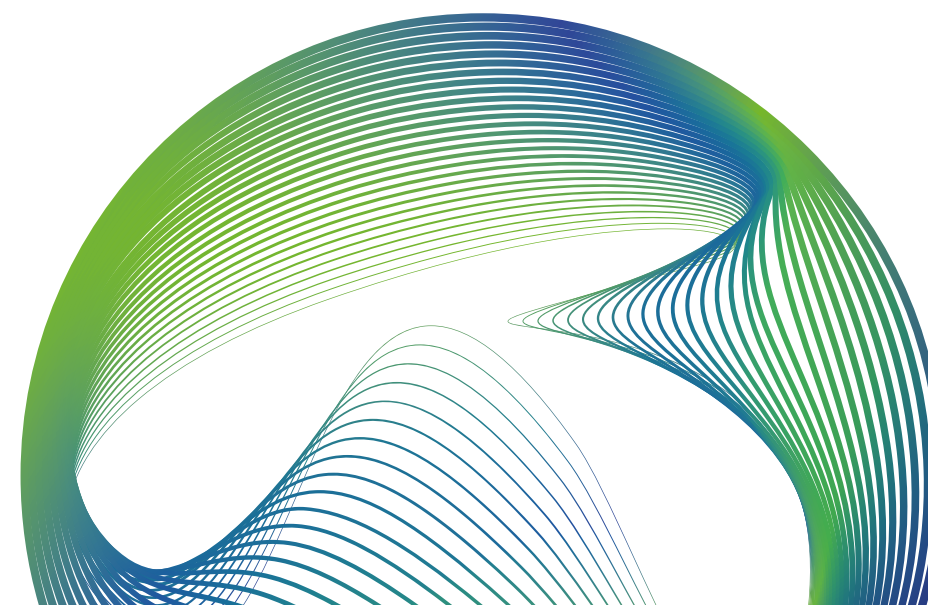
With its most recent investments, Oedim now has an impressive seventeen wide format platforms acquired from Fujifilm alone. This includes a range of flatbed and roll-to-roll models from the Acuity range, alongside older wide format printers from Fujifilm.

Prior to its premises and printing fleet expansion, Oedim faced challenges in meeting rapidly growing client demands, as well as delivering the speed required for its jobs. Thanks to its collaboration with Fujifilm, Oedim has not only overcome these hurdles, but it has also seen exponential growth in capacity, client acquisition and service excellence too.

This ongoing partnership is a testament to Fujifilm's innovation and responsiveness. Miguel Ángel Gómez Cano, Managing Director, Oedim, comments: "Fujifilm is always there to offer the very best support. Furthermore, its constant improvements and updates to existing printers ensure that we remain at the forefront of the industry. The machines offer the exceptional quality, speed and versatility to handle diverse printing formats – a key factor in our expansion."

Oedim has seen a surge in its ability to handle last-minute requests, acquire new clients, maintain competitive pricing and offer exceptional quality. Gómez Cano says: "Fujifilm understands the dynamic nature of our industry. From its machines to its support team, the company has proven to be an invaluable partner in our success."

Joan Casas, Manager at Fujifilm Graphic Communications, Spain, comments: "Oedim's investment in Fujifilm technology positions it as a leader in the wide format printing sector. We're pleased to be a part of the company's growth journey, and we are committed to supporting its continued success."





# Delivering phenomenal return on investment

## 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 and produce higher speeds. Drive your business forward with an outstanding superwide machine from a world leader in industrial inkjet technology.

## 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.

## Long printhead life minimises costs of consumables

With an impressively long life, you won't have to worry about replacing printheads as often. Combined with low ink consumption, the long printhead life reduces the hassle and costs associated with replacing consumables.

## 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 UV 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.

## Scalable architecture

All Acuity Ultra R2 systems have an ink channel upgrade path. You can start with a 5004 LED UV printer, then add light colours at a later date or white too if needed. The scalable architecture allows you to maximise your investment depending on the direction of your business for maximum flexibility.

## Key features

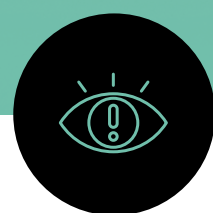
- Native 3.5 picolitre, 3 level greyscale printhead
- Linear-driven printhead carriage
- Water-cooled vacuum table
- Accurate and reliable media transport system
- Double sided print function supports printing on both sides of the media in perfect registration
- 3.2 m and 5 m options
- Mercury UV and LED UV curing options available
- Fujifilm Uvjet GS and AU inks
- Versatile, ultra-high quality 6 channel with white option
- Highly productive dual CMYK 8 channel model
- Output speed over 600 m<sup>2</sup>/hr
- 0.1 mm to 2.0 mm media thickness
- Multi-roll printing
- Prints on heat-sensitive materials
- Intuitive GUI



# Acuity Ultra R2 at a glance

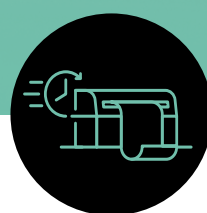
## Easy to use, saving time and money

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.



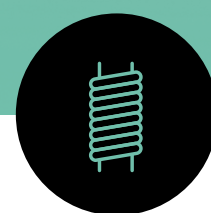
### Media crash detectors to prevent printhead damage

The carriage is equipped with media crash detectors on either side. These react to obstructions on the vacuum table to stop the carriage and prevent damage to the printheads.



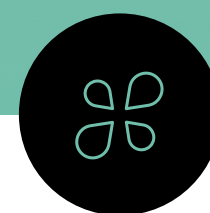
### Multi-roll capability maximises productivity for smaller jobs

With a throughput of over 600 m<sup>2</sup> per hour, the machine has the potential to produce huge volumes of work when printing on three rolls simultaneously, as well as printing superwide format graphics up to five metres in width.



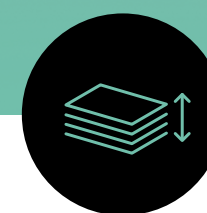
### Water-cooled vacuum table

A unique chilled vacuum table maintains the substrate temperature while printing and allows the use of thin heat-sensitive substrates, reducing media shrinkage and wrinkling.



### Ink spitting to minimise machine downtime

The Acuity Ultra R2 is fitted with a spit function designed to reduce machine downtime. This maintains the print quality and helps to increase the overall consistency of the printed results.



### Auto media thickness and position measurement

The Acuity Ultra R2 is equipped with a media detector mounted on the carriage. This is used to determine the position and thickness of the media.



### Mechanical substrate detector

The Acuity Ultra R2 is equipped with media sensors positioned under the rear media tension rollers, with 3 sensors on the Acuity Ultra R2 5000, and 2 on the Acuity Ultra R2 3200.



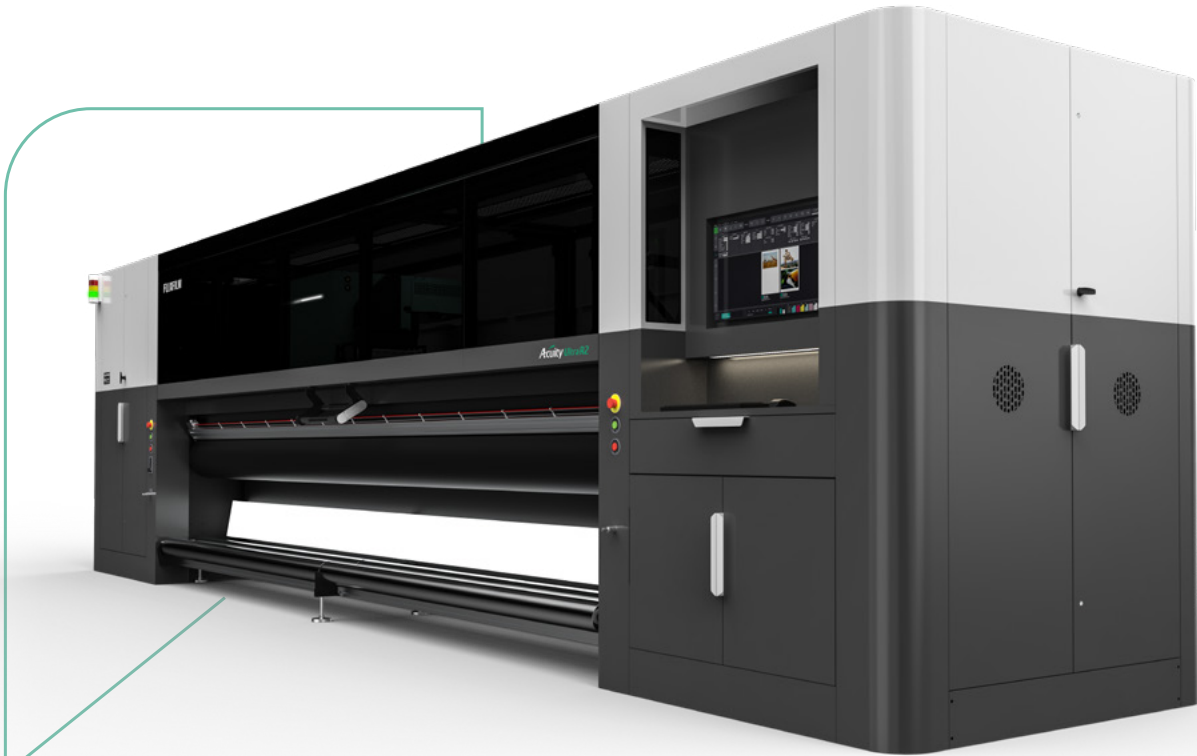
# Acuity Ultra R2

### Industrial UV and LED curing systems

The Acuity Ultra R2 is available in 3.2 or 5 m formats, using LED UV lamps for the 6 colour and 6 colour plus white options, or Mercury UV lamps for the high speed double CMYK configuration, ensuring block free production. By offering both solutions, printers can choose the most appropriate technology to support their business needs.

### High-performance Uvijet GS and AU inks

New, high colour density inks deliver superb vibrancy and a wide colour gamut. Excellent inter-coat laydown produces solid backlit colours and prints. The inks also do not exhibit cracking when folded due to the low ink build. The new high colour density inks are delivered using 3.5 pL printheads, resulting in a very low film thickness and ultra-low ink consumption, resulting in very low cost-in-use and higher profit per print.



## Technical specifications

Acuity Ultra R2	3200 series	3200 series	5000 series	5000 series
Curing system	LED UV	Mercury UV	LED UV	Mercury UV
Model	3204: CMYK 3206: CMYK LcLm 3208W: CMYK LcLmWW	3204: CMYK 3244HS: CMYK CMYK	5004: CMYK 5006: CMYK LcLm 5008W: CMYK LcLmWW 5044HS: CMYK CMYK	5004: CMYK 5044HS: 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	400 m²/hr		667 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 Multi-rolls: 2 x 200 kg x 340 mm		Large rolls: 600 kg x 400 mm Multi-rolls: 3 x 200 kg x 340 mm	
Hardware interface	Ethernet TCP/IP, 1000 base-T			
Power requirements	LED UV: 380-400V, 50/60 Hz, 3P+N+E, 30A, peak power 15kW Mercury UV: 380-400V, 50/60 Hz, 3P+N+E, 30A, peak power 21kW			
Air supply	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

# One platform unlimited results

The Acuity Ultra Hybrid LED is a high-end printer designed for rigid and flexible media, offering superb, high quality printing in a 3.3 m platform.

### Why Acuity Ultra Hybrid LED?



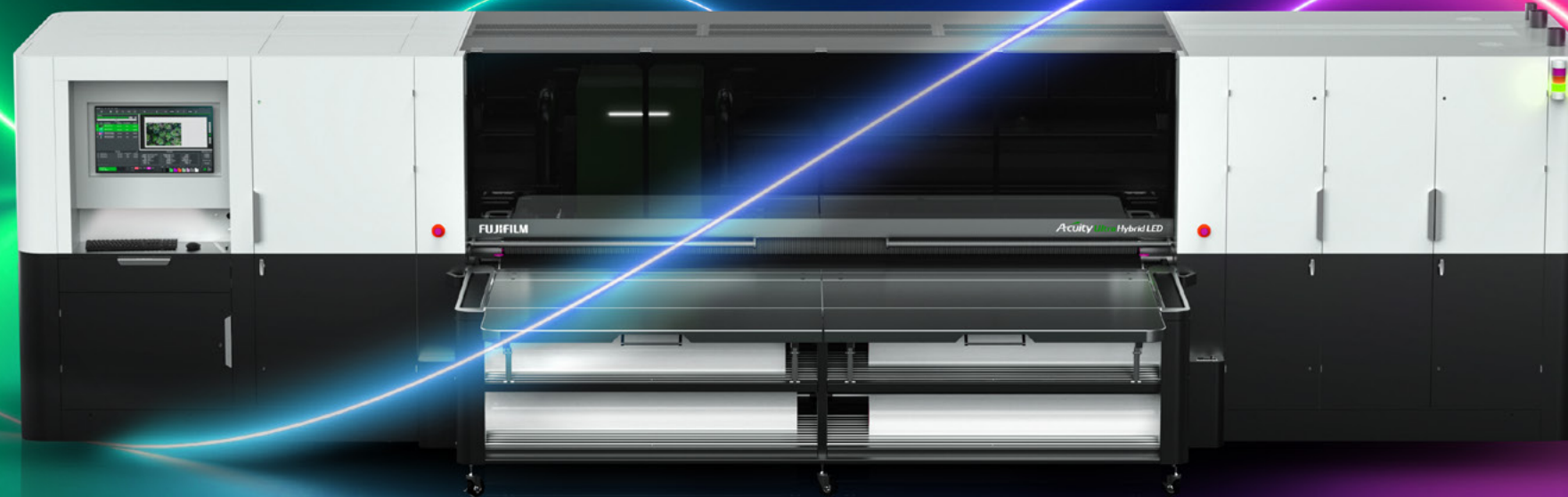
Near photographic quality printing of a huge range of applications at high speeds



Scalable architecture that can grow and change as business demands evolve



Intelligent design and new high performance ink for maximum versatility



### Engineered with the operator in mind

The Acuity Ultra Hybrid LED is designed with specialist inks to support near photographic quality printing on a huge range of applications.

It is also a highly modular six-colour system with a scalable architecture that can grow and change as business demands evolve. This means you can start with a CMYK device, and add light colours and white inks at a later date, making it one of the most versatile and flexible platforms on the market, able to produce the widest variety of products in the smallest machine footprint.

**Acuity** Ultra Hybrid LED



# Versatility

The combination of intelligent design features and Fujifilm's new Uvijet UH high performance ink, ensures that the Acuity Ultra Hybrid LED is one of the most versatile platforms on the market, able to produce an unrivalled range of applications at both high quality and high speed.

## Media load and unload tables

Fujifilm's patented media table design features a dimpled table surface which supports all media types while allowing easy media positioning, providing performance superior to most other systems on the market. In addition, an innovative catch mechanism improves media feed accuracy, and provides protection from accidental damage throughout a print run. Finally, the change over from roll to rigid or rigid to roll is ultra-quick, maximising overall productivity.

## Intelligent vacuum control system

The Acuity Ultra Hybrid LED features an intelligent vacuum control system that has been designed from the ground up using sophisticated airflow CAD modelling software to generate excellent media hold down.

The system automatically turns on the vacuum zones needed for any print job based upon the media width, and automatically adjusts the vacuum control power to maintain a constant force under the belt regardless of media type and size. This ensures excellent media hold down, whilst maintaining consistent media transport, to ensure high print quality.

In addition, the belt is a single piece constructed of a semi-rigid polyurethane material, so it resists both ink damage and distortion over time, ensuring years of continual use. The belt drive rollers are also substantial 32 cm diameter steel rollers that resist deflection when the belt is tensioned.

## Key features

- Versatile, ultra-high quality printer
- 3.3 m print width
- Up to 315 m<sup>2</sup>/hr roll-to-roll
- Native 3.5 picolitre, 3 level greyscale printheads
- LED UV curing for lower power consumption
- Dual roll printing
- Linear-driven printhead carriage
- Uvijet UH high performance inks
- Prints on heat-sensitive materials
- Dimpled media tables support all media types
- 6 channel with white option
- Intuitive GUI
- Automation options available

The Acuity Ultra Hybrid LED delivers an unrivalled range of applications at both high quality and high speed.

Acuity Ultra Hybrid LED





**The Fujifilm Acuity Ultra Hybrid LED has enhanced our ability to deliver premium quality prints with greater versatility and speed, ultimately benefiting our clients' varied needs and timeframes."**

**Darren Moorhouse**  
Europe Head of Sales at Arc Technologies

## Arc UK invests in an Acuity Ultra Hybrid LED to take its business to new heights

Arc Document Solutions, a global provider of innovative printing solutions, has invested in the Fujifilm Acuity Ultra Hybrid LED printer at its Dartford UK site. The robust and versatile hybrid machine is set to reduce job turnaround times and boost the company's productivity.

Capable of printing on both rigid and flexible substrates, the Acuity Ultra Hybrid LED is an ideal solution for Arc UK Technologies' broad range of applications, which include: printed packaging solutions; fabric printing; graphic design; retail displays and banners; digital printing services; and event tradeshow graphics.

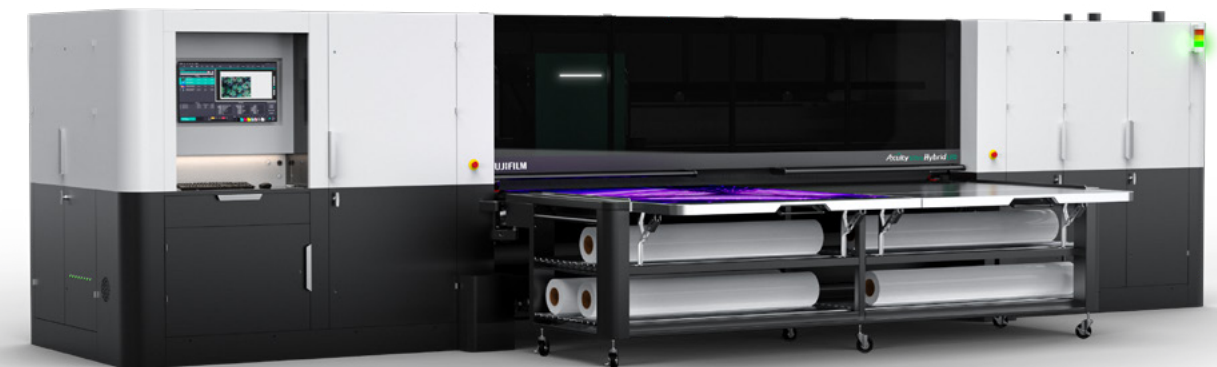
Arc's business portfolio also includes wayfinding and signage projects for numerous well-known brands around the globe, including Accenture, Boston Consulting Group, PwC and Shell.

The company's investment in the Acuity Ultra Hybrid LED will give it the capability to take on more jobs than ever.

Printing at speeds of up to 315 m<sup>2</sup>/hr (RTR), and delivering a print resolution of up to 1200 x 1200 dpi, the Acuity Ultra Hybrid LED combines ultra-high quality and a competitive return on investment.

It also perfectly aligns with the company's mission to deliver fast turnaround times while minimising its environmental impact. For example, Arc Technologies is involved with a Print & Plant initiative, in partnership with the non-profit organisation One Tree Planted. Print & Plant is a reforestation effort based on the volume of paper Arc's clients print – whereby one tree gets planted for every 8,333 sheets.

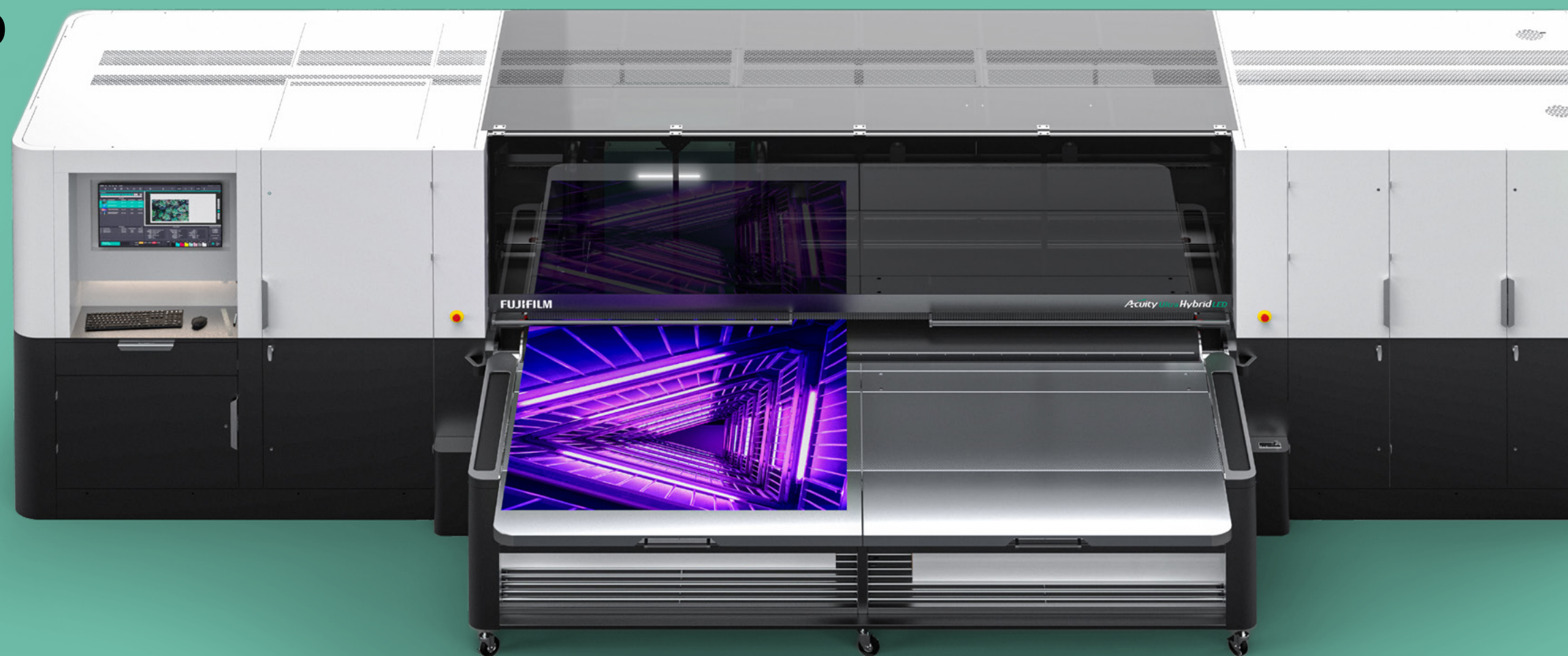
Darren Moorhouse, Europe Head of Sales at Arc Technologies, comments: "The Fujifilm Acuity Ultra Hybrid LED has enhanced our ability to deliver premium quality prints with greater versatility and speed, ultimately benefiting our clients' varied needs and timeframes."





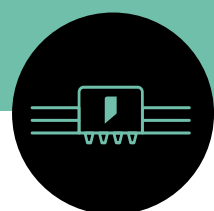
# Acuity Ultra Hybrid LED at a glance

The Acuity Ultra Hybrid LED uses the same head carriage as the Acuity Ultra R2, capable of ejecting greyscale drops down to 3.5pL in size to deliver superb print quality. Combined with an industrial build quality, a linear motor head carriage drive and Fujifilm's high performance Uviolet UH inks, the very best print quality is guaranteed.



## Heavy duty chassis

Like the Acuity Ultra R2, the Acuity Ultra Hybrid LED is built on a substantial welded steel construction, together with solid steel bars, which contribute to the machines 8.3T weight. This design not only delivers a robust construction, it also ensures that the printer displays very little vibration during operation, further enhancing print quality.



## Linear motor head carriage drive

Many hybrid printers use a belt drive to move the print carriage, often resulting in a reduced life span as well as impacting print quality. The Acuity Ultra Hybrid LED uses a linear motor drive for the head carriage delivering travel speeds of 1900 mm per second when using the fast carriage travel speed. The carriage movement is quiet and free from vibration, travelling along dual rails with the carriage supported by 6 large race bearings.



## Uviolet UH ink

Fujifilm has developed a new high performance LED curing ink for use in the Acuity Ultra Hybrid LED, specifically designed to give the adhesion performance needed in a hybrid solution. However, the ink still delivers the same high coverage and print quality as Fujifilm's other Uviolet AU and GS inks, with customers also able to benefit from the same low ink usage.

The Uviolet UH ink set consists of six standard colours (CMYKLCm) and an optional white ink.

The printer can be configured with two white ink channels to maximise throughput speeds and print density.

The Acuity Ultra LED Hybrid with white ink allows flood white under-printing for non-white media, over-printing white for backlit applications on transparent media and/or printing white as a spot colour. The new ink range has both Greenguard Gold and AgBB certification. The printer is capable of printing up to 5 layers, with the 1st and 5th layer being a different image.



# Fokina's productivity transformed with Acuity Ultra Hybrid LED

Fokina, a dynamic printing business based in Germany, has experienced substantial business growth, and harnessed the full potential of its printing capabilities, by adding a Fujifilm Acuity Ultra Hybrid LED to its fleet of printers. Fokina's strategic investment in 2023 marked Fujifilm's inaugural sale of the Acuity Ultra Hybrid LED in Germany.

The Acuity Ultra Hybrid LED printer has proven to be a game-changer for Fokina, delivering unparalleled versatility and reliability, and giving the company the capability to take on more jobs than ever. Known for delivering high quality results, Fokina's decision to invest in Fujifilm's innovative technology has helped the business to continue meeting the diverse needs of its clients – and with faster turnaround times.

Fokina showcased the capabilities of the Acuity Ultra printer by producing stunning graphics for Fujifilm's stand at FESPA 2022. Collaborating with Equinox, a renowned exhibition stand design company, Fokina demonstrated the printer's exceptional performance, as well as its ability to create show-stopping visuals.

The Acuity Ultra Hybrid LED has ensured operational efficiency on various fronts at Fokina. It not only streamlines machine and company processes but also contributes to resource conservation. Moreover, in light of escalating energy costs, the printer is cost-effective, boasting low power consumption and ink usage.

Sven Breiter, CEO of Fokina, comments: "Fujifilm's Acuity Ultra Hybrid LED printer has truly revolutionised our productivity and has allowed us to achieve new heights in terms of quality and efficiency. This machine was the best choice to solve our business's daily challenges."

"With our two Fujifilm machines, we're able to deliver flexibility, quality and value for money to our customers, and we're always supported by Fujifilm's exceptional customer service, training and technical expertise."

Sven adds: "Our partnership with Fujifilm has been instrumental in driving our success, and the Acuity Ultra Hybrid LED has become an indispensable asset in our design and printing processes."

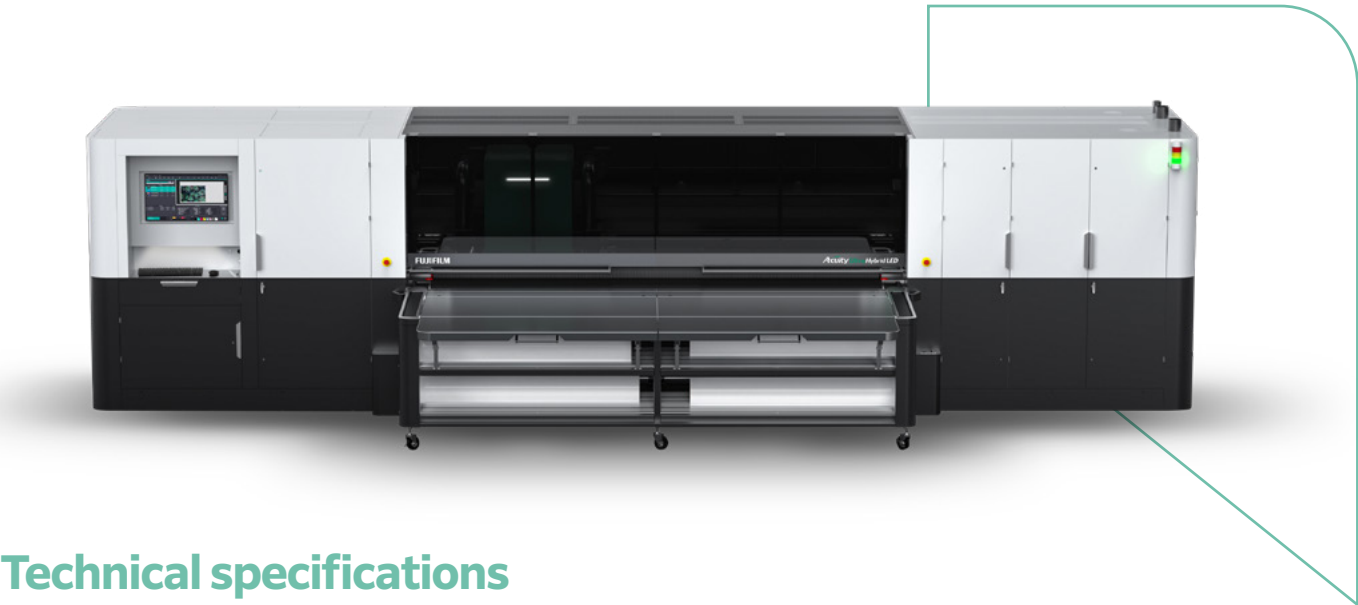
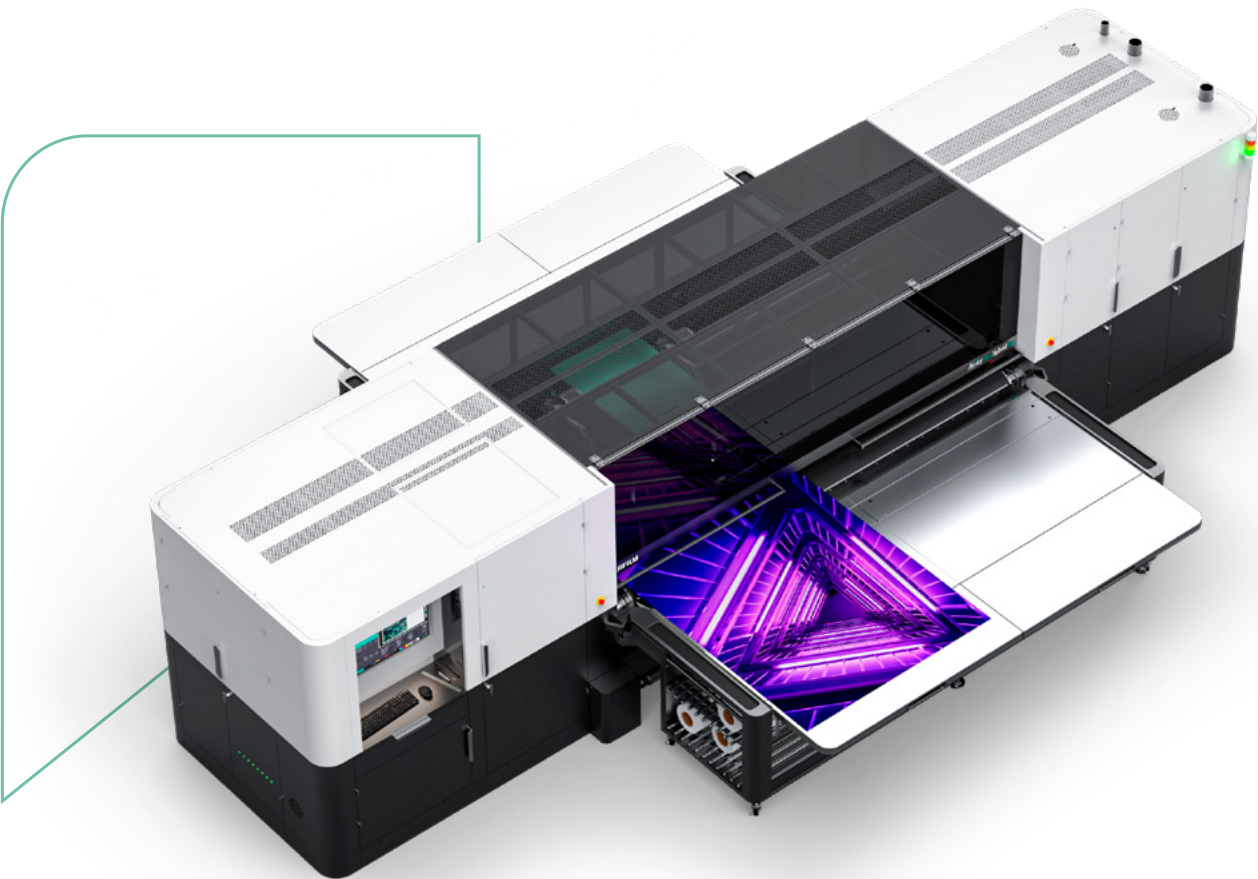




# Designed with the operator in mind

A range of advanced features have also been incorporated into the design of the Acuity Ultra Hybrid LED to improve operation and maximise uptime. These include:

- A second workspace with keyboard and monitor that mirror the functions of the PC that drives the machine, meaning a single user can operate the printer from either the input or the output sides of the machine
- Media tension buttons controlling the roll functions of the machine are located on both the input and output sides for ease of use
- The input media roller is adjustable, moving up and down, for improved tension, and to help keep the roll media flat and wrinkle free
- The durable aluminium media shafts cater for either single 3.3 m rolls, or two rolls each up to 1.6 m wide. The printer uses a special airshaft which allows two rolls of the same media having different diameters to be run at the same time



## 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	10624 nozzles per colour channel with white channel having 21248
Print resolution	Print resolution up to 1200 x 1200 dpi
Productivity	315 m²/hr for RTR and up to 60 beds an hour
Curing system	LED Lamp – lamp life minimum 5000 hours
Power requirements	Printer: 380-400V, 50/60 Hz, 3P+N+E, 20A, peak power 18kW* Vacuum: 380-440V, 50/60 Hz, 3P+N+E, 35A, peak power 25 kW*
Connectivity	Connectivity Minimum 1000 base T
Air supply	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 – 90 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)

\*These values represent maximum peak power - when starting up devices like the printer or vacuum, the power draw will spike initially before dropping to a lower level.



## Acuity Ultra Hybrid Pro

# Your ambition our vision

### Highly productive Acuity Ultra Hybrid printer with optional automation system

The Acuity Ultra Hybrid Pro is a high-end printer designed for rigid and flexible media up to 3.3 m in width, available with manual, half and full automation options.

#### Versatile and productive

Based on the success of the original Acuity Ultra Hybrid LED platform, the Acuity Ultra Hybrid Pro represents the next generation, built to an industrial standard and designed with the operator in mind.

The Acuity Ultra Hybrid Pro is built for print businesses who want to say yes to every job - whether long, short or ultra-short run, and whether on roll or rigid media - and represents the ultimate in versatility and productivity. With its patented table latching system to allow easy switching from rigid to roll media, a user-friendly GUI and separated operational and maintenance areas of the machine to simplify operation and avoid unnecessary mess, this printer reduces downtime allowing seamless production at high speeds.

Users can change easily and within minutes, between roll and rigid media jobs, and the printer also features a 'quick run' option, with a small roll function integrated into the bed, allowing short roll jobs to be carried out on the fly.

### Why Acuity Ultra Hybrid Pro?



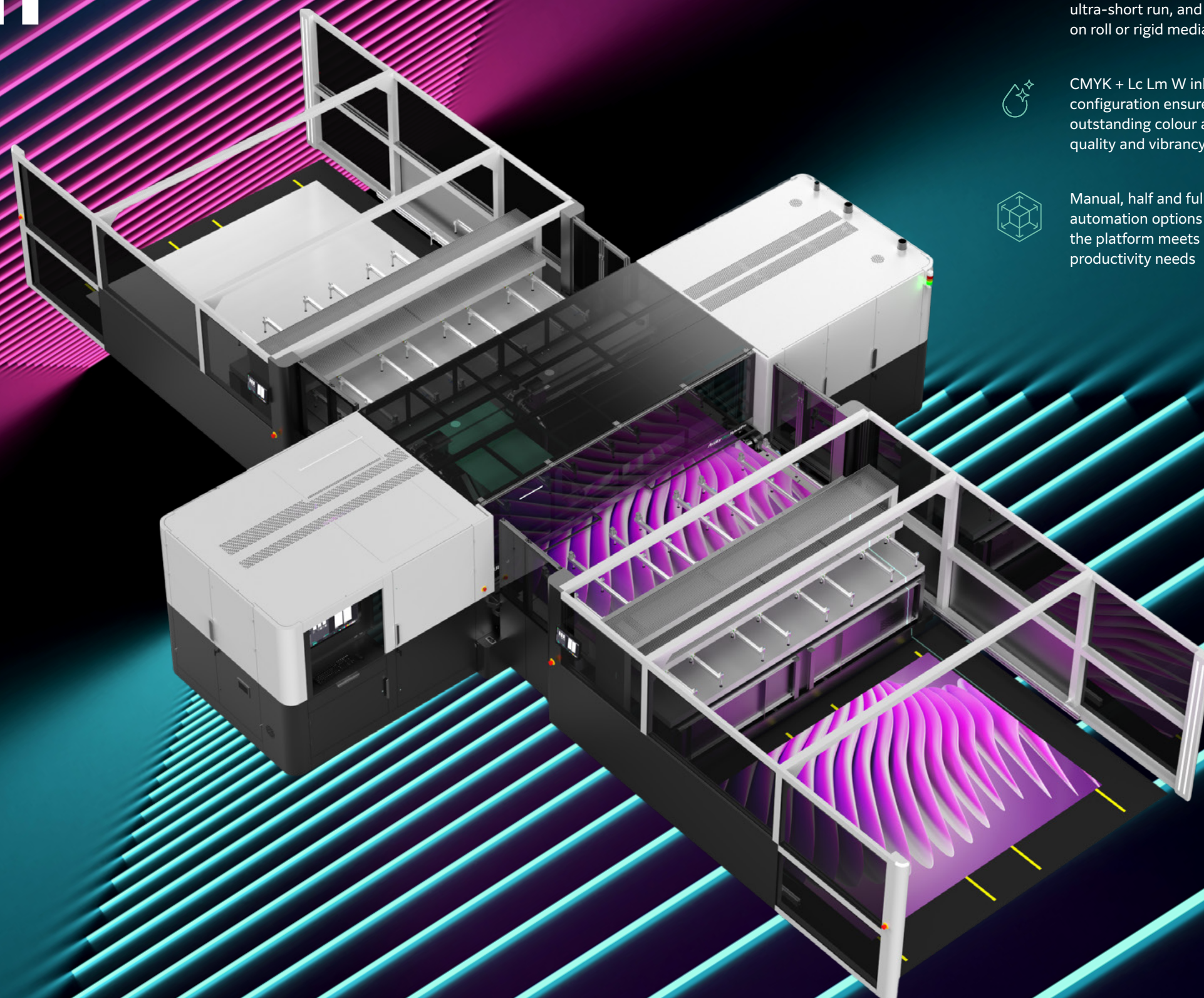
Say yes to every job - whether long, short or ultra-short run, and whether on roll or rigid media



CMYK + Lc Lm W ink configuration ensures outstanding colour accuracy, quality and vibrancy



Manual, half and full automation options ensure the platform meets all high productivity needs





# Outstanding quality and colour accuracy

With a 3.3m print width, the Acuity Ultra Hybrid Pro is equipped with up to 32 robust long-life Kyocera printheads, each delivering a 3.5pl drop size and more than 10,000 nozzles per colour. The CMYK + Lc Lm W ink configuration ensures outstanding colour accuracy and vibrancy across different applications.

The Acuity Ultra Hybrid Pro uses patented Fujifilm ink technology that adheres to a wide variety of media and is especially designed for both rigid and roll substrates. As with the others in the Acuity Ultra line-up, a 3.5 picolitre drop size results in exceptional print quality together with very low ink consumption.

## Manual, half and full automation

To support high volume production, the Acuity Ultra Hybrid Pro can be seamlessly integrated with a comprehensive new automation system. This system is designed for the automatic handling of rigid materials, allowing one single operator to run the machine for a full pallet-to-pallet process.

The robust design of the automation system not only speeds up production, but also has the option of using either half or full automation. The automation system also has a loading option to feed material to the printer and an unloading system to unload the material from the printer to a pallet.

The system has a four-lane process allowing four rows of material to be printed simultaneously. Each lane has two suction arms to pick up the material, along with a vacuum that can be adjusted and saved to a preset for different material weights and surfaces. There is also an optional ionisation unit which removes unwanted static from particular materials that are notoriously hard to print on.

## Key features

- 3.3m width
- CMYK + White + Light Cyan + Light Magenta
- Up to 32 robust Kyocera printheads
- 3.5 picolitre drop size
- 7 vacuum zones
- LED UV technology
- In excess of 600m<sup>2</sup>/hour or 100 boards/hour
- Colour consistency from an award-winning, world class ink factory



**Acuity** *Ultra Hybrid Pro*



# Acuity Ultra Hybrid Pro at a glance

## Manual



1

Operator area with viewing window - operational from both sides

2

Industrial PC built in to control the complete system

3

Light curtain at input side for operator safety

4

32 printheads

5

Roll-to-roll unit

6

Rear ionizer system and two on each side of print carriage for static removal on difficult to use materials

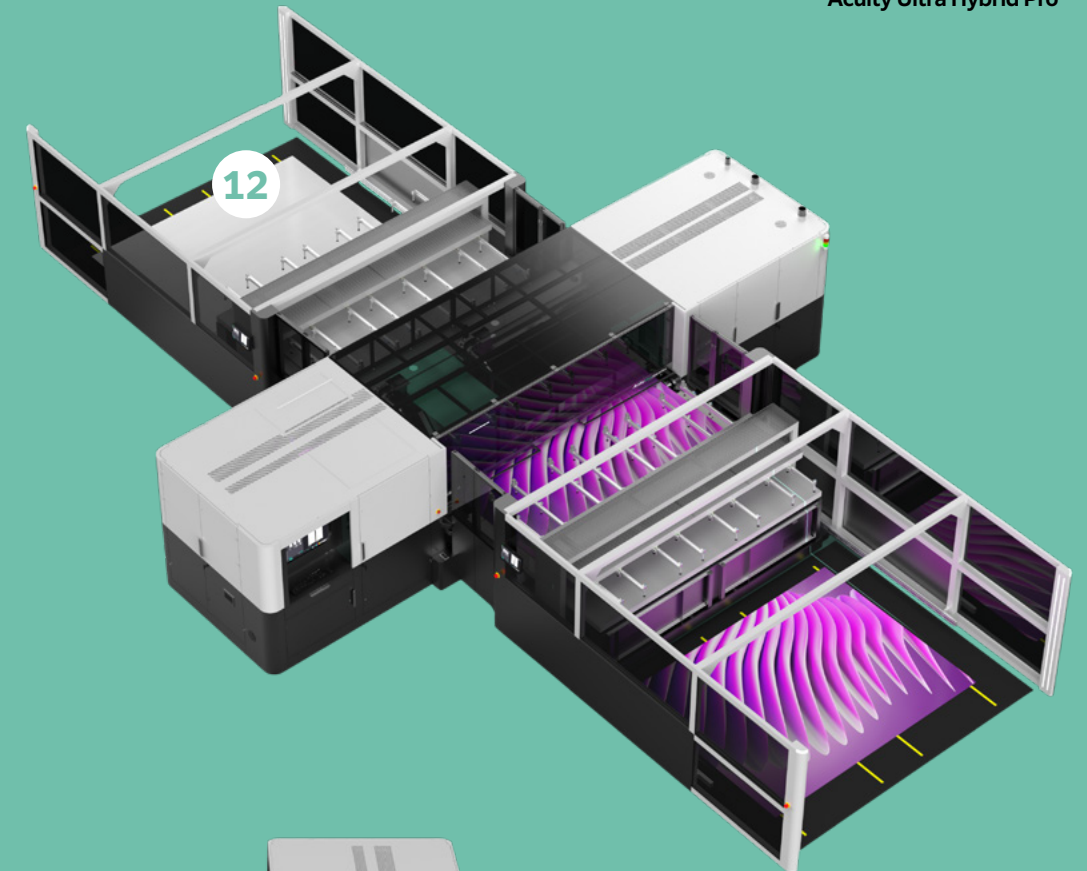
7

Media belt with seven adjustable vacuum zones for ultimate versatility

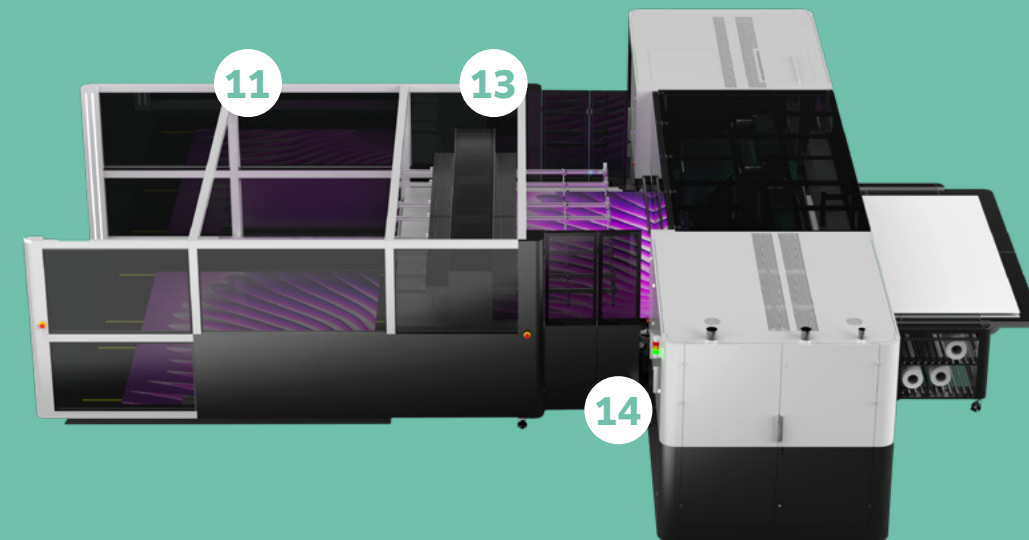
8

Concentrated vacuum zones

## Full automation



## Half automation



9

Patented table top intake and outtake roll system, designed to quickly switch to roll for short print jobs

10

Intuitive light system

11

Laser alignment system for media placement

12

Loading and unloading system

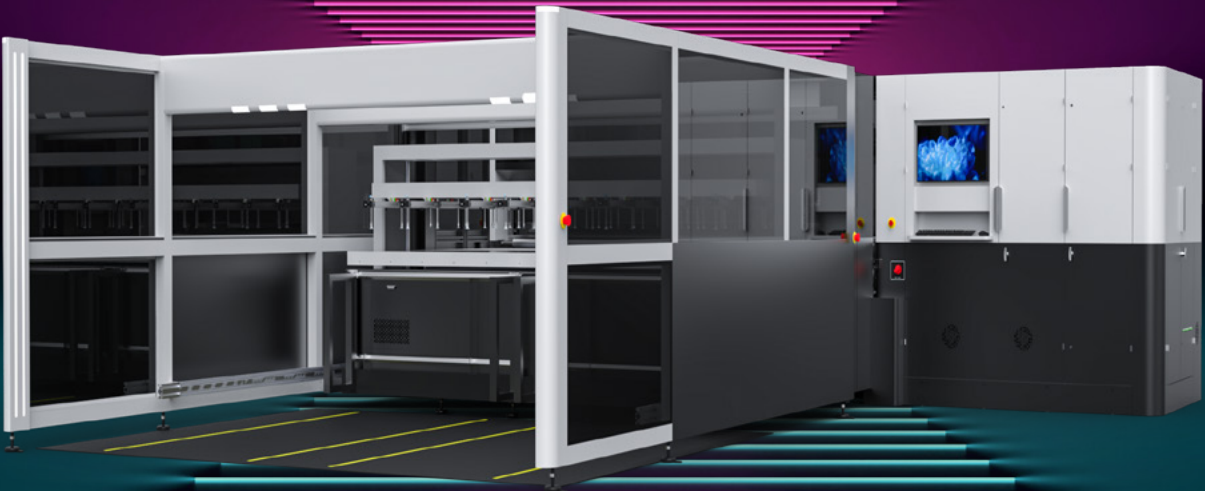
13

Four gripper handling system to allow the printing of four sheets at same time. Fifth optional

14

Access roll-to-roll functionality with access through door on each side of the system





# Automation overview

- Loading and unloading system couples to the printer using patented latching system
- 4 lane system can feed 4 sheets at the same time
- 2 arms with vacuum sucker cups per lane
- Adjustable vacuum system for different thickness and weights of media
- Pre-set media selection with laser alignment system for media placement
- Optional ionizer system for static removal on difficult to use materials – (Polyester/PP)
- Move media from pallet to printer in 34 seconds
- Still access roll-to-roll functionality through door on each side of the system
- Light curtain at the entry and media feed for health and safety benefits
- Single power chain inside contains all air and power lines for system
- Industrial built-in PC to control the complete system

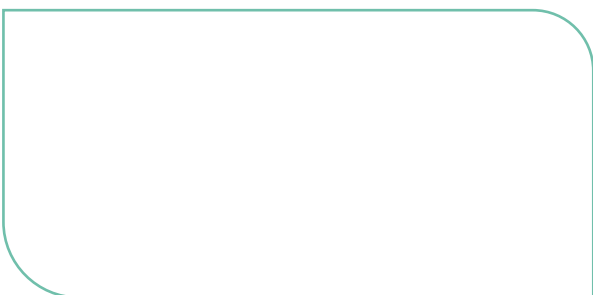


## Technical specifications

Acuity Ultra Hybrid Pro	
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 32 Kyocera KJ4A heads
Number of nozzles	2656 nozzles per colour channel with white channel having 10624
Print resolution	Print resolution up to 1200 x 1200 dpi
Productivity	in excess of 600m²/hour for RTR and in excess of 100 beds/hour
Curing system	LED Lamp – lamp life minimum 5000 hours
Power supply machine	380 v 3 phase 50/60 Hz 30 amp, 7 kw consumption. (Vacuum motor: 400 V 3-ph+N+PE/Gnd, 50/60 HZ, 80 A, 33.5 KW)
Connectivity	Connectivity Minimum 1000 base T
Air supply	Pressure (minimum): 8 kg/cm² (7.85 bar / 114 psi)
Media Type – RTR	Up to 2 mm including PC, PET, UV textiles, Papers, SAV, Mesh, banner PVC
Media Type – rigid	Up to 5 cm including 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 – 90 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	Machine only – 9m x 2.6m With 2 tables – 9m x 6.5m With half automation – 9m x 10.6m With full automation – 9m x 14.8m
Weight	9t



Please contact your local Fujifilm partner or visit:  
**[fujifilmprint.eu/wide-format-sector/](https://fujifilmprint.eu/wide-format-sector/)**



**Fujifilm Print**



**Fujifilm Print**