

Acuity Ultra R2 series: Overview

Delivering phenomenal return on investment

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

Advanced features for profitable printing

High-quality, high-performance printheads delivering 3.5 pl native drop sizes

3-level greyscale printheads deliver 3.5 pl native drop sizes up to 1200 x 1200 dpi resolution, making use of 2,656 nozzles arranged across a width of 108 mm.

High-performance Uvijet GS and AU inks

New, high-density inks deliver superb colour 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-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.

Excellent build quality using industrial-quality components

The chassis is a substantial construction made from welded steel box tubing and solid steel bars, contributing to the 7.7 t and 4.7 t weights of both models. This helps to ensure the printer displays very little vibration and very accurate drop placement.

Industrial UV and LED curing systems

The Acuity Ultra R2 is available in 3.2 or 5m formats, using Honle LED lamps for the 6 colour & 6 colour plus white options, or UV lamps for the high speed CMYK configuration, ensuring block free production. By offering both solutions, printers can choose the best technology that supports their business needs.

Solid media transport system ensures accuracy

Two pairs of rubberised rollers both front and back deliver a consistently accurate media feed and provide consistency over long print runs or when accuracy is needed for tiled applications.

Linear-driven printhead carriage delivers superb registration

Linear motors ensure smooth edge-to-edge printing with no vibrations at the end of the run to deliver accurate ink drop placements. This means no loss in print quality at the print edge.

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.

Anti-static control

The on-board anti-static bars can help reduce levels of static in the print, thereby reducing ink mist.

Multi-roll capability maximises productivity for smaller jobs

With a throughput of up to 400 m² 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.

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.

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.

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. The Acuity Ultra R2 5000 is equipped with 3 sensors. The Acuity Ultra R2 3200 is equipped with 2 sensors.

The media sensors detect when media is loaded onto the machine, and alert the operator if there is a fault with the media loading, for example if a roll of media has run out, or the media is not tight. The sensors use ultrasonic detection technology, and will work for all media, including clear media.

Designed with the operator in mind

As well as technical enhancements to the Acuity Ultra R2, there is a strong focus to reduce maintenance and improve serviceability for the operator. A new intuitive GUI, smoked perspex panels allowing the user to view print safely during production, and the integration of clean and dirty working areas to avoid contamination, are all examples of the developments that ultimately save time and money and improve overall price/performance.

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.



Technical specification

Acuity Ultra R2	3200 series	3200 series	5000 series	5000 series
Curing system	LED	UV	LED	UV
Model	3206: CMYK LcLm 3208W: CMYK LcLmWW	3244: CMYK CMYK	5006: CMYK LcLm 5008W: CMYK LcLmWW	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 m ² /hr		400 m ² /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/cm ² (7.85 bar / 114 psi)			
	Flow rate (minimum): 1.2 m ³ /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/m ³			
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	

For further information:

Please contact your local Fujifilm partner.

web www.AcuityUltraR2.com **YouTube** [Fujifilm Print](#) **Twitter** [@FujifilmPrint](#)

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