

Acuity Ultra: Overview

The new standard in superwide

The Acuity Ultra reaches new levels of quality and speed previously unattainable in the superwide arena. It offers an unrivalled combination of speed and quality to give you a competitive advantage in the high-end and luxury brand interior graphics market, where near-photographic quality is critical. It also gives you the flexibility to produce superwide prints for the OOH market segment or improve productivity by producing multiple, high-quality prints from one machine.

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
- ▶ 1,000+ hours of lamp life
- ▶ Fujifilm Uvijet GS inks
- ▶ Versatile, ultra-high quality 6 channel with white option
- ▶ Highly productive dual CMYK 8 channel model
- ▶ Up to 400m²/hr
- ▶ 0.1 mm to 2.0 mm media thickness
- ▶ Multi-roll printing
- ▶ Prints on heat-sensitive materials



Acuity Ultra



Outstanding UV superwide platform

Exceptional quality in superwide format

With the Acuity Ultra, 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 UV inks ensure consistent high quality print.

Make an impact in the high-end indoor display market

The Acuity Ultra 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 can propel your business into the luxury brand market.

The perfect ratio for profitability

With the ideal ratio of quality, speed and cost-in-use, the Acuity Ultra 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.

Industrial build quality

The robust chassis and linear, vibration free carriage drive, supported by a reliable feeding system, ensure 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 gives you the ability to profitably create exhibition graphics, POS displays, high-value graphic art, backlit displays, outdoor displays, outdoor signage and more.

Fully equipped to enhance productivity

The Acuity Ultra 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.

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.

New high-performance Uvijet GS 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 ink also does not exhibit cracking when folded due to the low ink build.

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 7.5 t and 4.4 t weights of both models. This helps to ensure the printer displays very little vibration and very accurate drop placement.

Industrial UV curing system

Based around conventional UV technology, the Acuity Ultra runs at much higher speeds than LED-cured machines. This ensures print emerges dry and ready to ship, eliminating the need for any additional drying processes.

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 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 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 is equipped with media sensors positioned under the rear media tension rollers. The Acuity Ultra 5000 is equipped with 3 sensors. The Acuity Ultra 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.

New, high-density, low film weight ink

The Acuity Ultra is available with up to eight colour channels, using new, high-quality, low film weight Uvijet GS ink. This new high-density ink is delivered using 3.5 pl printheads, resulting in a very low film thickness and ultra-low ink consumption figures, resulting in a very low cost-in-use and higher profit per print.

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	3200 series	5000 series
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 GS series	
Curing system	UV curing lamps with variable power settings	
Maximum throughput	181 m ² /hr	400 m ² /hr
Maximum media width	3.40 m	5.13 m
Maximum media thickness	2.0 mm	2.0 mm
Minimum media thickness	0.1 mm	0.1 mm
Maximum print image width	3.20 m	5.00 m
Media loading capabilities	Large rolls: 400kg x 400mm Multi-rolls: 2 x 200kg x 340mm	Large rolls: 600kg x 400mm Multi-rolls: 3 x 200kg x 340mm
RIP	Caldera, ColorGATE	
Hardware interface	Ethernet TCP/IP, 1000 base-T	
Power requirements	3 phase, 400V AC, 50 Hz, 30A Power consumption: 15 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)	6.73 m x 1.65 m x 2.09 m	8.43 m x 1.73 m x 2.29 m
Machine weight	3800 kg	6930 kg

For further information:

Please contact your local Fujifilm partner.

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