Acuity Ultra

Versatile, cost effective, and powerful roll-to-roll inkjet printer for superwide graphics from Fujifilm
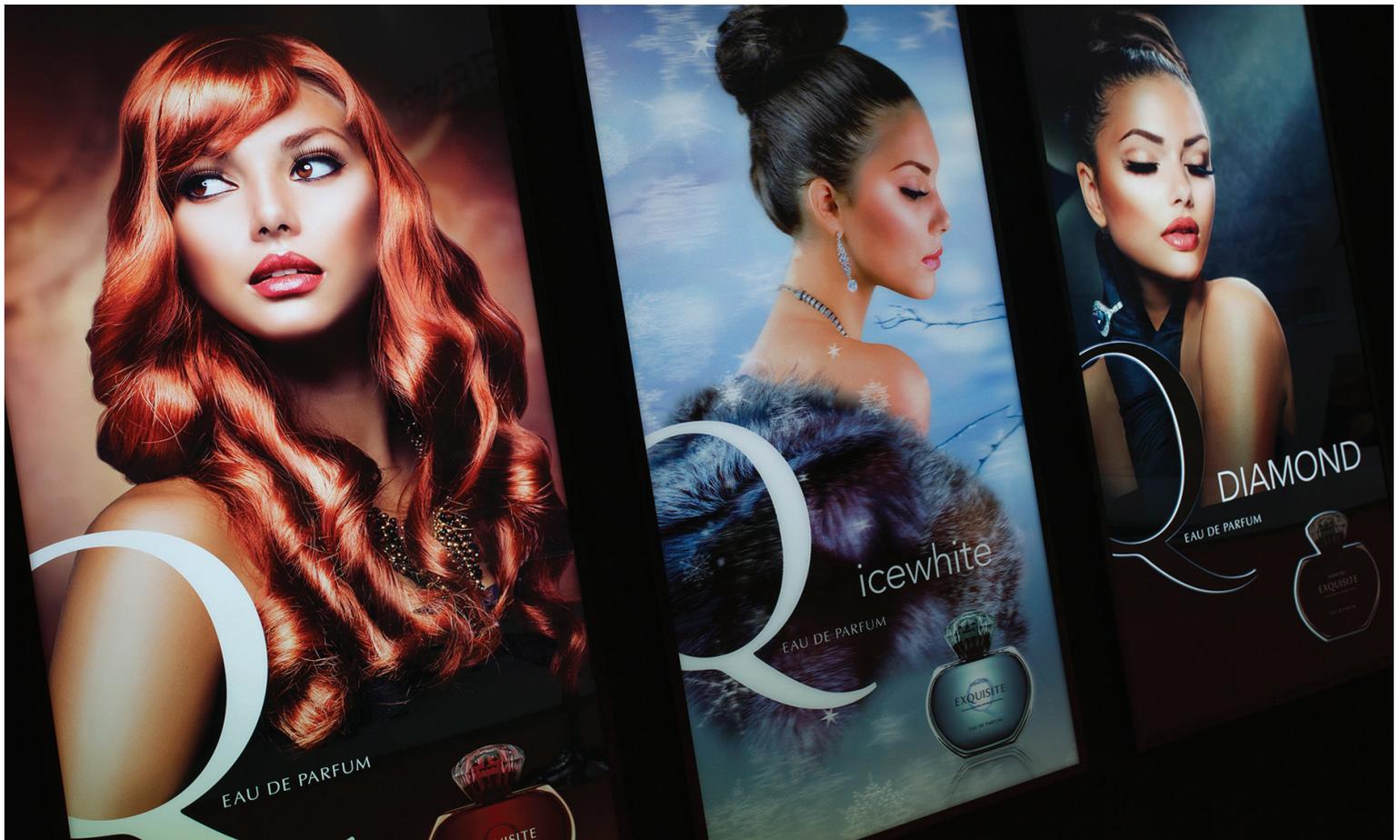
Outstanding superwide platform

Acuity Ultra achieves new levels of quality and speed in superwide roll-to-roll printing. Featuring impressive cost-in-use, Acuity Ultra gives you the power to profit from interior and exterior applications – where high-impact, near-photographic quality is required.

With Acuity Ultra, you get the excellent high quality, productivity and reliability the Fujifilm Acuity range is known for, on a massive industrial scale – up to 5 meters wide. Operating at throughput speeds of up to 4,327 square feet (402 square meters) per hour, Acuity Ultra printers are fueled by the latest ink developments, which produce quality, vibrant images. Industrial printheads with a 3.5 picoliter drop size and specially developed UV and LED inks ensure consistent high quality print.

Acuity Ultra is not only ideal for outdoor applications such as 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.

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

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, Acuity Ultra gives you the ability to profitably create exhibition graphics, POP displays, high-value graphic art, backlit displays, outdoor displays, outdoor signage and more.

The small ink drop size and expert integration of this printing system allow for the Acuity Ultra to print photographic quality, which is ideal for high-end indoor displays where close viewing is required. From custom interior design elements to breathtaking graphics, the application potential of the Acuity Ultra drives profitable superwide jobs and helps print providers expand into the luxury, high-end indoor market.

Acuity Ultra is the perfect machine for high-end and multi-roll applications like banners and billboards. Versatility to meet client demands and provide a solution across the range of elements within a campaign help drive business, and the Acuity Ultra series of printers provide that flexibility.

Choice of machine width and color configuration to answer every grand format graphic demand.

Designed for high-volume superwide printing, the Acuity Ultra series includes both 3.2 meter and 5 meter width models. That enables the production of graphics with a maximum print with of 126" (3.2 m) for the 3.2 m model and 197" (5.0 m) for the 5 m model.

Beyond superwide graphics applications, the option for multi-roll capability of the Ultra maximizes productivity, and aids in producing huge volumes of work when printing on multiple rolls simultaneously.

The printer series features color configuration options to best suit what's needed for individual print service providers. The Acuity Ultra is available in a 6-color configuration (CMYKLcLm) and optional white channels (CMYKLcLm+WW). Light inks help achieve smooth tones and gradients to produce remarkable quality. With optional white channels, Acuity Ultra can expand application possibilities as it enables the printer to produce jobs on clear material and dark substrates efficiently.

The Acuity Ultra is also available in a double CMYK configuration. With two sets of CMYK for maximum output speeds, Out Of Home applications with longer viewing distances can be produced at remarkable volumes.

The new standard in superwide

Delivering combined quality and speed previously unattainable in the superwide market, Acuity Ultra is equipped with advanced features for flexible and productive printing.

The Perfect Ratio for Profitability

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

Acuity Ultra offers an impressively low cost-in-use. High density Uvijet inks and the 3.5 picoliter drop size result in a low film of ink results in ultra-low ink consumption.

High-quality, high-performance printheads

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 4.25" (108 mm). 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.
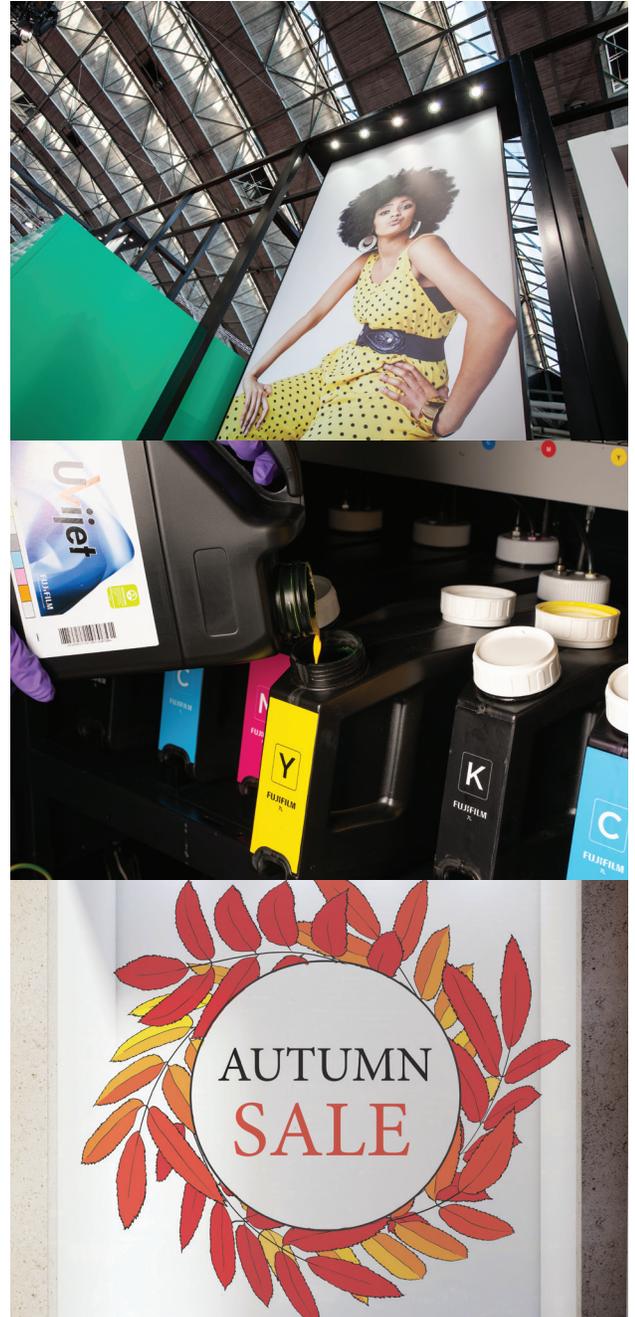
Fujifilm Uvijet Inks

High-density Fujifilm inks deliver superb color vibrancy and a wide color gamut. Excellent intercoat laydown produces solid backlit colors and prints. The inks also do not exhibit cracking when folded due to the low ink build. These 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.

Robust & Intelligent Machine Build

Superb build quality helps protect the investment in the Acuity Ultra Series. Substantial steel construction minimizes potential quality issues caused by vibration. Industrial quality components are used throughout the machine build for superb reliability.

Linear motors for the printhead carriage 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 and superb registration.

A solid media transport system is also critical to the machine's performance. Two pairs of rubberized rollers on the front and back of the printer deliver accurate media feed, and provide consistency over long print runs or when accuracy is needed for tiled applications.

Multi-roll Capability Maximizes Productivity

The ability to print multiple rolls simultaneously enables the Acuity Ultra to produce huge volumes of work. The 3.2 meter model features 2-up multi-roll potential, and the 5 meter model features 3-up multi-roll potential, which allows for multiple jobs to be printed simultaneously and maximize output. Designed for maximum efficiency with fast media changeovers and setup to ensure impressive uptime and ease of use.

Industrial UV Curing System

The Acuity Ultra R2 uses Honle LED lamps for the 6-color & 6-color plus white printer configurations, or UV lamps for the high speed double CMYK configuration, ensuring block free production. By offering both solutions, printers can choose the best technology that supports their business needs.

Real-Time Quality Control with LED Backlight System

Backlit inspection lights mounted at the front of the machine enable real-time quality control for checking print quality on the fly without halting production. With the Acuity Ultra being capable of printing ultra-high quality, ensuring output is as desired with the LED backlit systems allowing for any errors to be quickly spotted and corrective steps to be taken, saving time, ink and media waste.

Water-Cooled Vacuum System

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.

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 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.

Intelligent features to maximize productivity

Acuity Ultra is equipped with advanced features for flexible and productive printing. Every aspect of the machine was designed to increase productivity for roll-to-roll printing, from machine accessibility to highly intelligent features that enable operators to be as efficient as possible.

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.

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

An intuitive GUI
The Acuity Ultra has a logical, clean GUI layout with an icon based display for ease of use. Useful media presets simplify job setup.

Mechanical substrate detector
The media sensors detect when media is loaded onto the machine, and alert the operator if there is a fault with the media loading, like 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 substrates.

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.

Service and Support Network

Your business depends on maximum uptime from your digital equipment. Fujifilm recognizes that your investment in cutting-edge technology needs to be matched by a support service that is customer focused, responsive and reliable.

Acuity Ultra installations are supported by warranty, parts and service package options, tailored to best suit your business. Front-line support is available throughout North America using certified engineers.

Superb, High-Density White Ink

The ability to print with white ink is the ideal solution for businesses that produce high-value backlit/frontlit and double-sided day/night POP display graphics where the ability to print high-opacity white as a base, spot color or top layer quickly and cost effectively is important.

With optional white channels on the Acuity Ultra, application possibilities are expanded as it enables the printer to produce jobs on clear material and dark substrates efficiently. The additional of white equips the Acuity Ultra series with the ability to over-print white for backlit applications on transparent media, flood white under-printing for non-white media and also print white as a spot color.

Strong environmental performance

The Uvijet GS and AU ink series for the Acuity Ultra series of printers are free from ozone-depleting chemicals, aromatic hydrocarbons & harmful volatile solvents.

Fujifilm's commitment to environmental responsibility has been recognized through achieving UL GREENGUARD certification for its Uvijet GS range and Uvijet AU range of inks. GREENGUARD helps manufacturers create, and customers choose, interior products that support healthy indoor environments through low chemical emissions. Certification means that a product has been rigorously tested and shown to have low emissions of volatile organic compounds (VOCs).
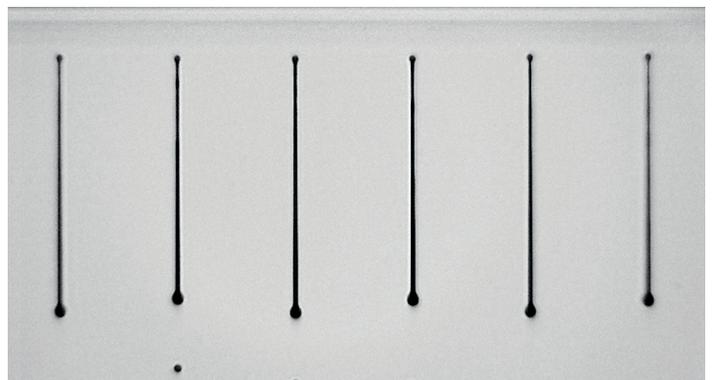
Every Drop Matters

The Acuity Ultra printhead carriage jets millions of drops per second, each directed to a precise location, producing hundreds of square feet of high-resolution prints per hour.

The demands on printheads and ink performance are very high, but to jet well and reliably, they must be designed for each other.

Uvijet inks are developed by Fujifilm Speciality Ink Systems in the U.K., to create optimum ink chemistry for the printheads. As part of the design process, printhead jetting patterns are tailored to the ink to achieve the best performance and reliability.

The Uvijet GS and AU ink systems, formulated specifically for the Acuity Ultra series of printers feature superb adhesion and flexibility. These inks produce a wide color gamut and excellent spot color reproduction.

Using Fujifilm's unique Micro-V ultrafine dispersion technology to maximize pigment loading, Uvijet UV and UV-LED curing inks deliver strong vibrant, lightfast colors.

Ink drop formation from printhead to substrate. To achieve the best image quality Acuity Ultra must fire a drop at the print surface to land with pinpoint accuracy and in perfect shape.

See for yourself

Fujifilm Technology Center for Graphics

Fujifilm's state-of-the-art demonstration facilities are available for you to test-drive the Acuity Ultra, put it through its paces, and see how well it handles your work. Experience a demonstration of how Acuity Ultra produces the right quality print at the throughput speeds you need to prove your return-on-investment calculations.

Your sales representative can arrange a visit to the Fujifilm Technology Center in Hanover Park, Illinois, where you can see all the latest machines and software in Fujifilm's wide format systems portfolio.

Fujifilm Wide Format Systems

Fujifilm's high performance inkjet platforms are based on UV curing inkjet technology, fueled by Uvijet ink which delivers instant curing and high production speeds with excellent image quality and color vibrancy.

Acuity Ultra series
Versatile, cost effective, and powerful superwide roll-to-roll UV inkjet printer

Inca OnsetM
High quality, flexible UV digital inkjet sheet-fed printer for B1 format size short run work

Inca OnsetX series
The world's fastest dedicated wide format flatbeds

Inca SpyderX
The most versatile combination flatbed printer with optional 3.2 meter roll-to-roll system

Acuity flatbed series
The benchmark flatbed platform for versatile print production

Acuity LED series
High quality, versatile roll printer with the latest LED UV curing

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FUJIFILM North America Corporation, Graphic Systems Division • PH: 800.877.0555 • contactgraphics@fujifilm.com • Fujifilminkjet.com

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